

APR 2 2008

FEDERAL ON-SCENE COORDINATOR'S REPORT  
COMPREHENSIVE ENVIRONMENTAL RESPONSE,  
COMPENSATION, AND LIABILITY ACT  
REMOVAL ACTION AT THE PLATING ENGINEERING FACILITY SITE  
WEST ALLIS, MILWAUKEE COUNTY, WISCONSIN  
SITE ID: B5FU

Prepared by:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V Emergency Response Branch 1  
77 W. Jackson Boulevard  
Chicago, Illinois 60604

:

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V**

**DATE:** March 21, 2008

**SUBJECT:** ON-SCENE COORDINATOR'S REPORT – CERCLA Removal Action at the  
Plating Engineering Facility Site, West Allis, Milwaukee County, Wisconsin, Site  
ID# B5FU

**FROM:** Craig Thomas, On Scene Coordinator *C.T.*  
Emergency Response Branch 1, SE-5J

**TO:** Jason El-Zien, Chief  
Emergency Response Branch 1, S-6J

**THROUGH:** Michael Harris, Chief  
Emergency Response Branch 1, Section 2, SE-5J

Please find attached the United States Environmental Protection Agency (U.S. EPA) Federal On-Scene Coordinator's (OSC) Report for the removal action conducted at the Plating Engineering Facility Site (Site), West Allis, Milwaukee County, Wisconsin. This report follows the format outlined in the National Oil and Hazardous Substances Pollution Contingency Plan, 40 CFR 300.165. The removal was initiated on July 30, 2007, and was completed on October 30, 2007. The OSC for this Site was Mr. Craig Thomas.

U.S. EPA took this action to mitigate the threats posed by the presence of volatile organic compounds (VOCs) waste plating solutions in pits, vaults, storage tanks and asbestos-containing material located inside the building, as well as VOCs and metal in soil which posed an immediate threat to public health, welfare, and the environment. Total project costs under the control of the OSC are estimated at \$627,319 of which \$573,967 was for the Emergency and Rapid Response Services contractor.

In this report, any indications of specific costs incurred at the Site are only an approximation, subject to audit and final definitization by U.S. EPA. The OSC report is not a final reconciliation of costs.

Portions of this report's appendices may contain confidential business or enforcement-sensitive information and must be reviewed by the Office of Regional Counsel prior to release to the public. The Site is not on the National Priorities List.

Attachment

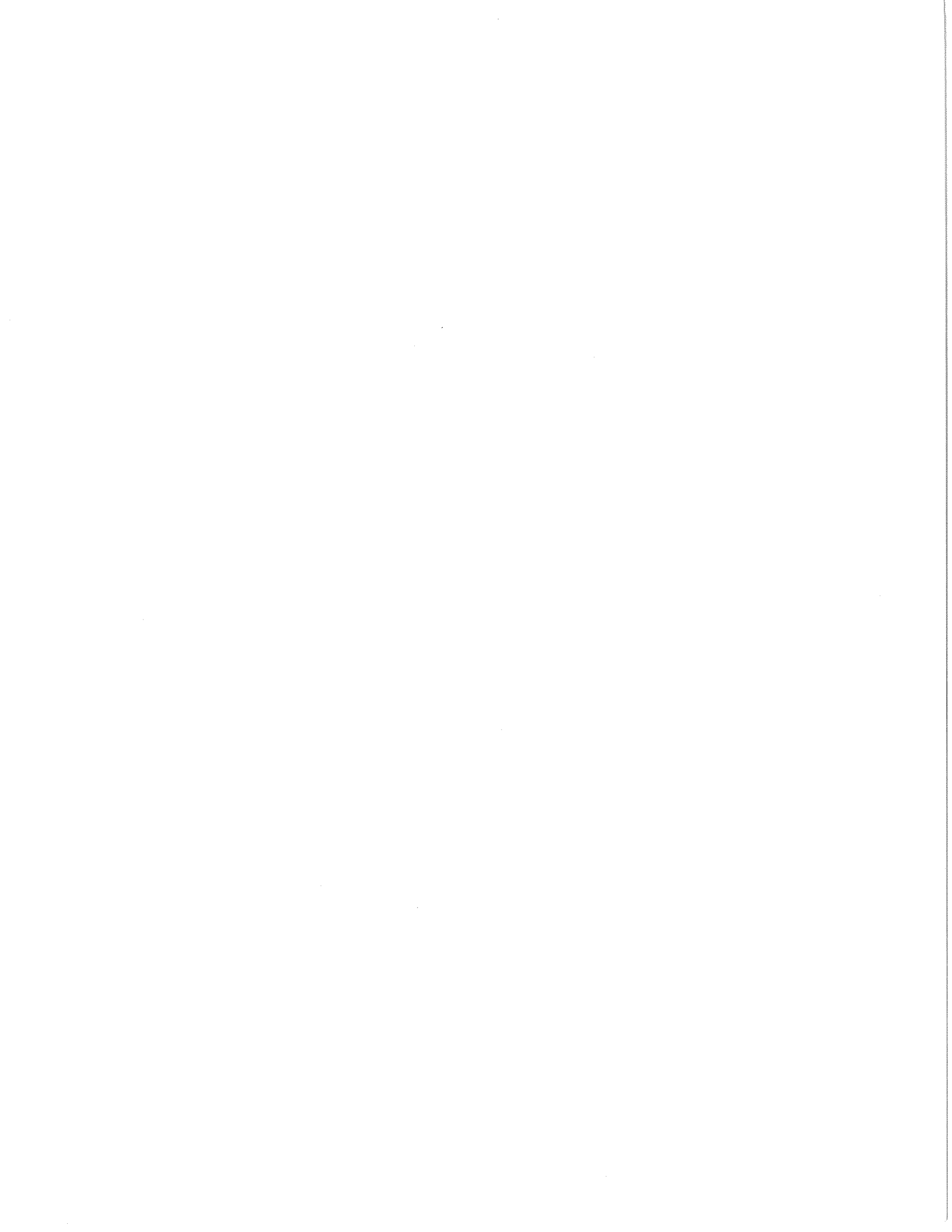
cc: Lorraine Kosik – SE-5J

Carl Norman – SE-5J

FEDERAL ON-SCENE COORDINATOR'S REPORT  
COMPREHENSIVE ENVIRONMENTAL RESPONSE,  
COMPENSATION, AND LIABILITY ACT  
REMOVAL ACTION AT THE PLATING ENGINEERING FACILITY SITE  
SITE ID: B5FU  
NPL STATUS: NON-NPL  
WEST ALLIS, MILWAUKEE COUNTY, WISCONSIN

Removal Dates: July 30, 2007 to October 30, 2007

UNITED STATES  
ENVIRONMENTAL PROTECTION AGENCY  
Region V  
Division of Superfund  
Emergency Response Branch 1



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## LIST OF ATTACHMENTS

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### Attachment

Attachment A Photographic Documentation

Attachment B Analytical Results

Attachment B1 Debris/Soil Disposal Characterization Sampling Results

Attachment B2 Acid Solid Disposal Characterization Sampling Results

Attachment B3 Flammable Sludge, Neutral Solid, Flammable Liquid, Basic Solid,  
Neutral Liquid, Base Liquid, Cyanide Liquid, Cyanide Solid, and Site  
Soil Disposal Characterization Sampling Results

Attachment B4 Building Material Asbestos Sampling Results

Attachment B5 Backfill/Borrow Source Characterization Sampling Results

Attachment B6 Alley Soil Disposal Characterization Waste Sampling Results

Attachment B7 Personnel and Work Area Asbestos Sampling Results



**Emergency and Enforcement Response Branch  
Office of Superfund, U.S. EPA, Region V**

**OSC REPORT STANDARD APPENDICES LIST \***

Site Name: Plating Engineering Facility Site, West Allis, Milwaukee County, Wisconsin

Site ID No.: B5FU

Delivery Order No.: 0080

1. Operational Files	<u>ID#</u>
- Action Memos/Additional Funding	1-A
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- Site Entry/Exit Log	1-C
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- Site Safety Plan	1-E
- Equipment & Expendables Log	1-F
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**Emergency and Enforcement Response Branch  
Office of Superfund, U.S. EPA, Region V  
OSC Report Standard Appendices List (cont'd)**

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- Manifests	3-C
- Disposal Information	3-D
- Drum/Vat/Sample Logs	3-E
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- Chains of Custody	3-G
- Waste Profile Sheets	3-H

- \* All files are arranged in chronological order.
  
- \* Portions of these OSC Report Appendices may contain confidential business information or enforcement-sensitive information and must be reviewed by the Office of Regional Counsel prior to release to the public.
  
- \* Note that certain files for this Site are maintained elsewhere by ERB; these appendices are those files maintained by the OSC during the removal action.

## **EXECUTIVE SUMMARY OF THE REMOVAL ACTIVITY**

**SITE:** Plating Engineering Facility Site

**LOCATION:** West Allis, Milwaukee County, Wisconsin

**PROJECT DATES:** July 30, 2007, through October 30, 2007.

**INCIDENT DESCRIPTION:** The Plating Engineering Facility Site (Site) is located at 1928 South 62<sup>nd</sup> Street in West Allis, Milwaukee County, Wisconsin.

The Plating Engineering Facility is located at 1928 S. 62nd Street in West Allis, Wisconsin. The Facility operated at this site from approximately 1948 through 2006. Previous operations at this site included a foundry.

Beginning in 1952 and continuing through the mid-1960s, a number of additions were made to the original building structure. In 1971, a fire caused significant damage to a large portion of the building, causing much of the structure to be re-built. The facility closed in December, 2006.

The Plating Engineering Facility performed heavy salvage plating for mis-matched parts and corrosion resistance using nickel, copper, chrome, tin, lead, electroless nickel, bronze plating, electropolishing, and electroforming. The primary process consisted of hard nickel plating.

In 1993, The Milwaukee Metropolitan Sewage District took action to cement up all outflows from the building as chemicals were allegedly being dumped into the sanitary sewer. The building was later reconnected to the sewer.

The State of Wisconsin brought a law suit against the Plating Engineering Facility for chromium air violations in 2004-2005.

In December, 2006, the Facility was abandoned with materials and chemicals left in place. Electric power was shut off on December 5, 2006, and water was shut off on December 11, 2006. The City of West Allis has determined that the building is un-occupiable. The City posted a condemnation notice on the building dated May 11, 2007.

According to the Region V Superfund Environmental Justice Analysis, the area within one mile of the Site has a population that is 13 percent (%) minority and the low income percentage is 26%. These percentages do not meet the Region V demographic criteria for identifying an environmental justice case.

Previous environmental investigation was performed at the Site to document contamination. The investigation documented the following Site contamination:

- Surface and sub-surface chromium, lead, copper, cyanide and solvent-contaminated soils in the immediate vicinity of the building;
- Concentrations of chromium (up to 50,000 part per billion (ppb), lead (up to 38 ppb), cis-1,2-dichloroethane (as high as 1,200 ppb), trans-1,2-dichloroethene (up to 230 ppb), tetrachloroethene (up to 23 ppb), 1,1,2 trichloroethane (up to 36 ppb), trichloroethene (up to 3,500 ppb) and vinyl chloride (up to 58 ppb) in ground water at the Site.
- Asbestos in tile mastic, pipe insulation, etc.

Evidence of vandalism at the Site was extensive during the period the Site was investigated.

**ACTIONS:** The Site was uncontrolled and previous investigations indicated the presence of friable asbestos-containing materials (ACM), waste plating solutions in vats, volatile organic compounds (VOCs), SVOCs, and metals in soil and/or groundwater at concentrations that exceeded human and environmental health and welfare risk criteria. Therefore, U.S. EPA approved an Action Memorandum for the Site on June 29, 2007. The Action Memorandum requested a Comprehensive Environmental Response, Compensation, and Liability Act time-critical removal action at the Site.

U.S. EPA; the STN Joint Venture, (STNJV®) Superfund Technical Assessment and Response Team (START); and Environmental Quality Management (EQM), the Emergency and Rapid Response Services (ERRS) contractor, mobilized to the Site on July 30, 2007, to begin removing ACM from buildings; sludges and plating solutions from tanks, pits, and vaults; cleaning building surfaces with suspected metals contamination; and excavating and disposing of metals and solvent-contaminated soil.

Removal activities were completed on October 30, 2007. ERRS arranged for the transportation and disposal of 560,770 gallons of non-hazardous wastewater; 145,280 kilograms of VOC, SVOC, metal, and PCB-contaminated oil and wastewater; 270 cubic yards of ACM debris

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Craig Thomas, On-Scene Coordinator  
U.S. EPA, Region V  
Chicago, Illinois

## **I. SUMMARY OF EVENTS**

### **A. SITE CONDITIONS AND BACKGROUND**

#### **1. Initial Situation**

The Plating Engineering Facility Site (Site) is located at 1928 South 62<sup>nd</sup> Street in West Allis, Milwaukee County, Wisconsin. The Site is bordered by 119<sup>th</sup> Street to the north, Morgan Street to the east, 120<sup>th</sup> Street to the south, and vacant industrial properties to the west (Figures 1-1). The Meridian coordinates for the Site are 43.0094° North and 87.9897° West. The Site property covers approximately 1/2 acre and consists of 1 building (Figure 1-2). A fire in the summer of 2004 destroyed a portion of the former administration areas located in the southeast portion of the Site. Evidence of vandalism at the Site in the form of broken windows, compromised fencing, graffiti, and stripped wiring is extensive.

The Plating Engineering Company (the Site) is on 0.6 acre in an urban/industrial area. In close proximity are a park, schools, and the Kinnickinnic River. The Plating Engineering building occupies most of the property, and is comprised of a three 1 -story operation rooms, a 2-story office area, and two laboratory rooms. This is bordered to the north by an office building. There are residences to the north of the office building and across Burnham Street, within 0.25 miles of the site. The Horace Mann School is located 0.3 miles north of the site. A cold-forging facility is located west of the site across South 62<sup>nd</sup> Street. The Kinnickinnic River and Park includes a pond, swimming pool and recreation areas, and is located approximately 0.75 miles south of the site.

Beginning in 1952 and continuing through the mid-1960's a number of additions were made to the original building. In 1971, a fire caused significant damage to a large portion of the building, causing much of the structure to be rebuilt. The facility closed in December of 2006.

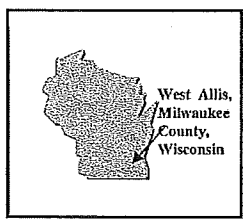
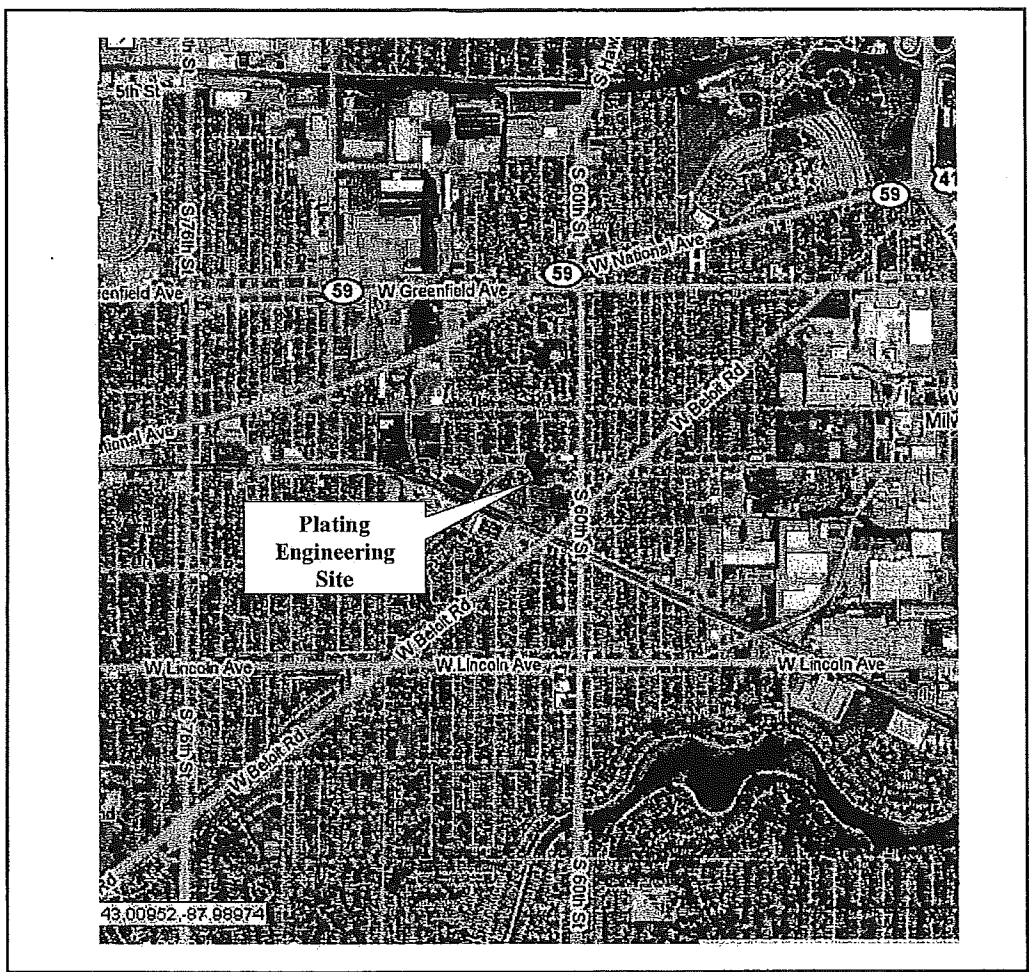
The facility performed heavy salvage plating for mis-machined parts and corrosion resistance using nickel, copper, chrome, tin, lead, electroless nickel, bronze plating, electropolishing, and electroforming. The primary process consisted of hard nickel plating.

In 1993, the Milwaukee Metropolitan Sewage District took action to cement up all outflows from the building as chemicals were allegedly being dumped into the sanitary sewer. Later, the building was reconnected to sanitary sewer.

The State of Wisconsin brought a law suit against Plating Engineering for chromium air emission violations in 2004 -2005.

In December, 2006, the Site was abandoned with materials and chemicals left in place. Electric power was shut off on December 5, 2006 and water was shut off on December 11, 2006. The City of West Allis has determined that the building is unoccupiable.

FIGURE 1-1

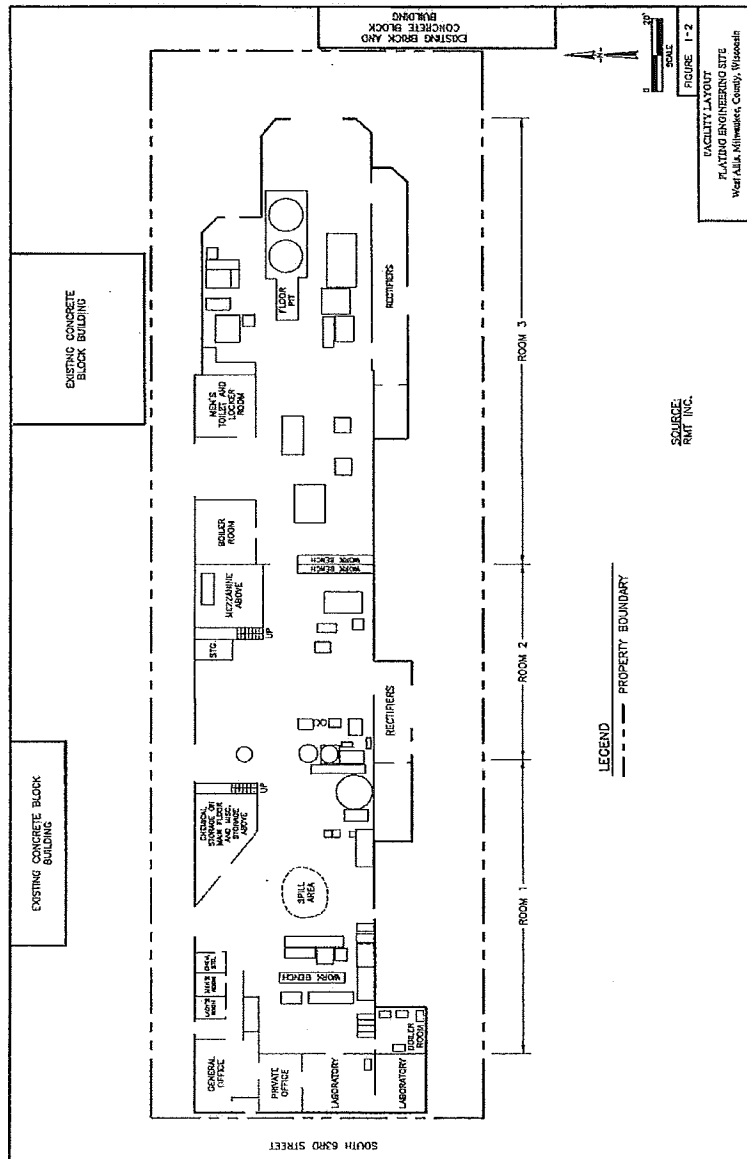


Source: [www.googlemaps.com](http://www.googlemaps.com)

Figure 1-1

Site Location Map  
Plating Engineering  
West Allis, Milwaukee Co., Wisconsin  
  
Scale: Not to Scale

FIGURE 1-2



## 2. Location of Hazardous Substance(s)

A sampling report dated September 17, 1997 from Drake Environmental, Inc. to Mr. Scott Ferguson of Wisconsin DNR showed groundwater samples in monitoring wells with chromium as high as 50,000 ppb, lead as high as 38 ppb, cis-1,2-dichloroethane as high as 1,200 ppb, trans-1,2-dichloroethane as high as 230 ppb, tetrachloroethene as high as 23 ppb, 1,1,2 trichloroethane as high as 36 ppb, trichloroethene as high as 3,500 ppb and vinyl chloride as high as 58 ppb.

On January 17, 2007, U.S. EPA OSCs Craig Thomas and Jaime Brown, and WESTON Superfund Technical Assessment and Response Team (START) members Jay Rauh and Ben Maradkel mobilized to the Plating Engineering Facility site to perform a site assessment. They were met at the site by Mr. Ed Lesinski of the City of West Allis, and Amy Walden and Scott Ferguson with the Wisconsin Department of Natural Resources (Wisconsin DNR) to begin site reconnaissance and sampling. All samples were collected on January 17th, 2007 by START. During the assessment, asbestos containing material (ACM) was observed.

As noted in the Site Assessment Report for the Plating Engineering Site, and pursuant to the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. § 6901 et seq., as amended, and 40 C.F.R. § 261.22 (a)(1), a solid waste exhibits the characteristic of corrosivity if a representative sample is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5. Drum sample PE-D1-011 and vat samples PE-V1011707 and PE-V3-0117 had pH levels less than or equal to 2 SU.

Vat sample PE-V1-0117 contained high levels of lead at 27,900 parts per million (ppm). The sample also contained mercury (0.0142 ppm).

Vat sample PE-V2-011707 contained high levels of total chromium (68,600 ppm), copper (1,290 ppm), vanadium (222 ppm) and mercury (0.0252 ppm).

Vat sample PE-V3-011707 contained high levels of nickel (15,800 ppm), iron (30,100 ppm), total chromium (499 ppm), and magnesium (1,430 ppm). The sample also contained mercury (0.0306 ppm).

Container sample PE-C1-0117 had flashpoint less than 140° Fahrenheit, and was therefore flammable and considered a characteristic hazardous waste. The sample contained high levels of total xylenes at 3,590,000 parts per billion (ppb), naphthalene at 615,000 ppb, ethylbenzene at 568,000 ppb, benzene at 6,030 ppb, 2methylnaphthalene at 1,540,000 ppb, naphthalene at 615,000 ppb and nitrobenzene at 501,000 ppb.

Sampling results collected during the site assessment from a monitoring well inside the facility showed TCE results as high as 771 ppb. It was apparent that the groundwater contamination observed in monitoring wells was similar to contaminants found in the plating vats. Due to the proximity of these wells to the vats, and the similar contaminants, the site, and the vats in particular, were a likely source of the groundwater contamination. The plating vats were full of plating solutions, and would have continued to impact groundwater unless the contents were removed.

Based on the results of previous investigations, which indicated the presence of asbestos-containing materials (ACM), VOCs, SVOCs, and metals in soil and/or groundwater at concentrations that



exceeded human and environmental health and welfare risk criteria, U.S. EPA approved an Action Memorandum for the Site. The Action Memorandum, approved on June 29, 2007, requested a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) time-critical removal action.

### **3. Cause of Release or Discharge**

ACM, acids, and metals were commonly used at this manufacturing facility while the Site was active. ACM was used as insulation on steam pipes, thermal system elements, wall boards, etc. until 1989 when U.S. EPA issued a rule banning most asbestos-containing products. Spills and releases of these materials during and after Site operation could have led to the conditions at the Site at the time of the U.S. EPA site assessment. It also became apparent during the removal of the two largest plating vats, that the vats had been heavily corroded, causing the plating solutions to discharge into the concrete pits they had been placed in.

### **4. Efforts to Obtain Response by Responsible Party**

U.S. EPA conducted a title search, which indicated that Plating Engineering Company (the Company) remained the owner of record of the Site. U.S. EPA issued general notice and an information request to the Company. In its response, the attorney representing the Company stated that it was in the process of filing bankruptcy and that neither the Company nor the owner of the Company had resources to conduct a response. Available information supports this claim that the Company is not financially viable. Plating Engineering Company did file for Chapter 7 bankruptcy in June 2007. In the bankruptcy filing, the Company reported assets of \$86,542.45 and liabilities of \$379,643.39.

## **B. ORGANIZATION OF RESPONSE**

U.S. EPA, STNJV START, and Environmental Quality Management (EQM), the Emergency and Rapid Response Services (ERRS) contractor, mobilized to the Site on July 30, 2007. Consistent with the U.S. EPA Action Memorandum, the team began removing ACM; plating solutions and sludges in tanks, pits, and vaults; cleaning building surfaces suspected to contain metals contamination; and excavating soil contaminated with metals and solvents. Table 1 summarizes the organization of the response.

**Table 1**  
**Organization of the Response**  
**Plating Engineering Site**  
**West Allis, Milwaukee County, Wisconsin**

Agencies or Parties Involved	Contact	Description of Participation
U.S. EPA – Region V Division of Superfund Emergency Response Branch 77 West Jackson Blvd. Chicago, IL 60604 (312) 886-5907	Craig Thomas	Federal OSC responsible for overall project oversight and success.
STN Environmental JV, Inc. 20 North Wacker Dr. Suite 1210 Chicago, IL 60606 (312) 220-7003	Brett Buccholz	STNJV START project manager responsible for removal oversight support, documentation, air monitoring, sampling, and START-related cost-tracking.
Environmental Quality Management, Inc. 1800 Carillon Blvd. Cincinnati, Ohio (800) 500-0575	Mark Douglas	Response manager responsible for direction of daily ERRS activity. Provided personnel and equipment necessary for removal and coordinated transportation and disposal of waste streams. Also tracked ERRS-related costs.
City of West Allis Building Department 7527 West Greenfield Avenue West Allis, Wisconsin 53214 (414) 302-8414	Ed Lisinski	City of West Allis project manager who participated in initial assessment of the Site prior to initiation of U.S. EPA response.

ERRS – Emergency and Rapid Response Services

OSC – On-Scene Coordinator

START – Superfund Technical Assessment and Response Team

U.S. EPA – United States Environmental Protection Agency

## **C. INJURY/ POSSIBLE INJURY TO NATURAL RESOURCES**

### **1. Content and Time of Notice to Natural Resource Trustees**

(Not Applicable)

### **2. Trustee Damage Assessment and Restoration Activities**

(Not Applicable)

## **D. CHRONOLOGICAL NARRATIVE OF RESPONSE ACTIONS**

### **1. Threat Abatement Actions Taken**

U.S. EPA, and the ERRS contractor mobilized to the Site on July 30, 2007, and began setup and removal activities. Due to on-going concerns from the City of West Allis regarding site trespass, security was established for the Site prior to the ERRS mobilization, and continued during non-working hours for the duration of the removal.

In preparation for removal activities, STNJV START performed the following removal activities at the Site from August 1, 2007, through August 2, 2007:

- Conducted air monitoring at the Site perimeter near work areas using AreaRAE® and MultiRAE® five-gas photo-ionization detectors (PIDs). AreaRAE® and MultiRAE® readings for VOC vapor, hydrogen sulfide, cyanide and percent (%) of the lower explosive limit were below the limits of detection and oxygen levels were 20.9%. Low readings of carbon monoxide (1-3 ppm) were detected when a Bobcat loader was running near the back side of the building.
- Conducted air monitoring of building interior using a Lumex Mercury Vapor Analyzer; this was conducted to determine if low-level mercury readings found in vat samples collected during the site assessment posed a threat to worker safety. START observed a maximum reading of 0.4 ug/m<sup>3</sup>. This result was well below the action level of 50 ug/m<sup>3</sup> (half of the OSHA PEL of 100 ug/m<sup>3</sup>)

From July 30, 2007 through August 10, 2007, ERRS performed the following removal activities:

- Mobilized to the site.
- Cleared and grubbed haul areas around the site.
- Established work areas inside the facility.
- Sampled drums and vats for disposal characterization.
- On August 07, 2007 beads of mercury were discovered under a tarp on the second floor of the facility. ERRS undertook a mercury clean up using a mercury vacuum on August 08, 2007.
- Pumped and disposed of approximately 10,000 gallons of waste chromic acid from plating vats

- Disposed of 60 cubic yards of non-hazardous debris.
- Sampled debris pile for waste characterization.

As a protective measure, during general Site work, areas containing suspect ACM were avoided. ERRS did not work within approximately six feet of any suspected ACM unless they were wearing proper PPE.

From August 3, 2007 through August 10, 2007, STNJV START performed the following removal activities:

- Created an inventory of drums and vats, and sketched out the location of each of these containers.
- Continued air monitoring consistent with methods described previously.

From August 11, 2007 through August 17, 2007, ERRS performed the following removal activities:

- Sampled drums and vats for disposal characterization. Sampling was conducted in Level B.
- All samples were run with HAZCAT procedures to determine appropriate waste stream and disposal composites were prepared and sent to the lab for disposal parameter analysis. Power and water supply were completed to the trailers and building.
- Non-hazardous solid waste was loaded into roll off boxes and sent off site to Republic for disposal.
- Scrap metal was separated, decontaminated and staged on site for future reclamation.
- Management Facility Vickery Ohio. Six tanker trucks with a total estimated volume of 24,000 gallons were shipped off site for disposal.
- Oxidizers were consolidated on site for off-site disposal.
- Cyanide liquids and solids were consolidated in 55 gallon Poly Drums and disposal analysis and disposal was set up.
- Lab Chemicals were inventoried and consolidated into compatible waste streams for disposal.
- Asbestos containing areas were secured and labeled.
- Neutral liquids were composited and disposal set up.
- Empty drums were cut up and placed into roll-off boxes for disposal. Sludge from the bottom of the vats was sampled and hand shoveled into 55 gallon poly drums.
- Disposed of 60 cubic yards of non-hazardous debris.

From August 18, 2007 through August 31, 2007, ERRS performed the following actions:

- Inventory of drums and vats, and sketch are being updated as wastes are consolidated or disposed of. Finished sampling small containers from lab area for disposal characterization. All samples were run with HAZCAT procedures to determine appropriate waste stream and disposal composites were prepared and sent to the lab for disposal parameter analysis.

- During work with the lab containers another small bottle of mercury was discovered after a small amount of its contents was released on to a work bench. ERRS conducted a removal action to address this mercury using a mercury vacuum on August 22nd, 2007.
- Non-hazardous solid waste was loaded into roll off boxes and two boxes were sent off site to Republic for disposal.
- Continued separating, decontaminating and staging scrap metal on site, and sent three 30-cubic yard roll-off boxes of scrap metal off for reclamation.
- On August, 21st, 2007 two tanker trucks of acid liquids with a total estimated volume of 9,100 gallons were shipped off site for disposal.
- Oxidizers were consolidated on site for off-site disposal.
- Cyanide liquids and solids were consolidated in 55 gallon Poly Drums and disposal analysis has been completed; disposal is currently being set up.
- Lab Chemicals were inventoried and have been consolidated into compatible waste streams and disposal was arranged.
- Empty drums continued to be cut up and placed into roll-off boxes for disposal.
- Additional sludge from the bottom of the acid vats was hand shoveled into 55 gallon poly drums.
- Disposed of 60 cubic yards of non-hazardous debris.

From August 18, 2007 through August 31, 2007, STNJV START performed the following actions:

- Updated inventory of drums and vats, and sketch as wastes were consolidated or disposed of.
- Continued air monitoring consistent with methods described previously.

From September 1, 2007 through September 14, 2007, ERRS performed the following actions:

- Non-hazardous solid waste was loaded into roll off boxes and one box was sent off site to Republic for disposal.
- Continued loading scrap metal into roll off boxes. Continued separating, decontaminating and staging scrap metal on site, and sent two 30-cubic yard roll-off boxes of scrap metal off for reclamation. The interior liner of steel vats were removed before the steel vats were cut and placed in the scrap metal roll-off boxes.
- On September, 13, 2007, one tanker truck of neutral liquids with a total estimated volume of 4,500 gallons were shipped off site for disposal at EQ Detroit Inc., in Detroit, MI.
- Acid solids were still being composited. Suspected asbestos containing areas were assessed and sampled.
- Empty drums continued to be rinsed, cut up, and placed into roll-off boxes for disposal.
- Sludge from the bottom of the acid vats and pits were hand shoveled into 55 gallon poly drums.
- Disposed of 30 cubic yards of non-hazardous debris.
- Disposed of 50 cubic yards of neutral solids that were hauled by Clean Harbor Services, Inc. to Chicago, IL.

From September 1, 2007, through September 14, 2007, STNJV START performed the following removal activities:

- Air sampling and monitoring consistent with methods described previously.
- Updated inventory of drums and vats, and sketch as wastes were consolidated or disposed of

From September 15, 2007, through September 28, 2007, ERRS performed the following removal activities:

- Non-hazardous solid waste was loaded into roll off boxes and 60 cubic yards (two boxes) were sent off site to Republic for disposal.
- Continued loading scrap metal into roll off boxes. Continued separating, decontaminating and staging scrap metal on site, and sent two 30-cubic yard roll-off boxes of scrap metal off for reclamation.
- 9125 gallons of hazardous waste liquids were sent to EQ Detroit Inc, Detroit, MI.
- 6160 gallons of Acid solids were sent to the Michigan Disposal Waste Treatments Plant in Belleville, MI.
- 70 cubic yards (3 boxes) of environmentally hazardous waste solids were sent to Clean Harbors in Chicago, IL.
- 4700 gallons of waste chromic acid solutions were sent to Vickery, OH.
- 100 gallons of waste ammonia solutions were sent to PCI in East Chicago, IN.
- 10 day notification was provided to the State for the upcoming asbestos abatement.
- Continued emptying, cutting up, and placing vats into roll-off boxes for disposal. Sludge from the bottom of the acid vats and pits were hand shoveled into 55 gallon poly drums.
- Sampled outside soil for heavy metals and cyanide.
- Sampled potential borrow source, which will be used, pending sample analytical results, to backfill pits in the building.

From September 15, 2007 through September 28, 2007, STNJV START performed the following removal activities:

- Continued air sampling consistent with methods described previously.
- Updated inventory of drums and vats, and sketch as wastes were consolidated or disposed of

From September 29, 2007 through October 12, 2007, ERRS performed the following removal activities:

- Non-hazardous solid waste was loaded into a roll off box and 30 cubic yards (one box) was sent off site to Republic for disposal.
- Continued loading scrap metal into roll off boxes. Continued separating, decontaminating and staging scrap metal on site, and sent one 30-cubic yard roll-off box of scrap metal off for reclamation.
- 100 cubic yards (4 boxes) of environmentally hazardous waste solids were sent to Clean Harbors in Chicago, IL.

On October 22, 2007, ERRS completed Site cleanup and demobilization of all personnel and most equipment. Partial remobilization was required on October 30, 2007 to address additional asbestos discovered by Wisconsin DNR asbestos inspector Mark Davis.

From October 13, 2007 through October 22, 2007, STNJV START performed the following removal activities:

- Continued air sampling consistent with methods described previously.
- Updated inventory of drums and vats, and sketch as wastes were consolidated or disposed of.

## **2. Treatment/Disposal/Alternative Technology Approaches Pursued**

Nineteen waste streams were identified on site for disposal (landfilled), underground injection, neutralization, thermal destruction, wastewater treatment, processing, fuels blending or recycling. The shipping dates, volumes shipped, transporter names, and disposal facilities are summarized in Table 2. The following methods were used to dispose of site waste streams:

- ACM debris was landfilled;
- Non-hazardous solids were landfilled
- Chromic Acid wastes were submitted for underground injection;
- Waste ammonia solutions were submitted for wastewater treatment.
- Hazardous waste liquids were submitted for wastewater treatment
- Lead and chrome contaminated hazardous waste liquids were also submitted for wastewater treatment.
- Lead and trichloroethylene contaminated sludges were landfilled.
- Waste corrosive liquids were submitted for solidification and landfilled.
- Waste sodium dithionite was submitted for incineration.
- Low level chrome and lead contaminated soils were landfilled.
- Mercury vapor containing fluorescent lamps were submitted for processing.
- Waste mercury was submitted for recycling
- Sodium hydroxide liquids were submitted for neutralization and landfilled.
- Sodium hydroxide solids were also submitted for neutralization and landfilled.
- Cyanide solids were submitted for thermal destruction.
- Waste aerosols were submitted for fuel blending.
- Cyanide liquids were submitted for thermal destruction.

- All vats were emptied. However one wax vat on northeast side could not be removed; the above-ground portion of that vat was cut-off, and the remainder of the vat was backfilled once the wax was removed. The rest of the vats have been cut up, and placed into roll-off boxes for disposal.
- Sludge from the bottom of the acid vats and pits were hand shoveled into 55 gallon poly drums. The acid vats were then removed and cut up for recycling.
- A licensed contractor was hired to remove Freon from the refrigeration units inside building.
- Confirmed that the borrow source soil was acceptable. Backfilled all but one of the pits in the building.
- Mobilized asbestos abatement team from Veolia (a subcontractor to ERRS). Began abatement of asbestos.
- Began removing contaminated soils along the south side of the building down to a maximum depth of two feet. Backfilled the soil excavations with clean fill.

From September 29, 2007 through October 12, 2007, ERRS performed the following removal activities:

- Continued air sampling consistent with methods described previously.
- Updated inventory of drums and vats, and sketch as wastes were consolidated or disposed of

From October 13, 2007 through October 30, 2007, ERRS performed the following removal activities:

- Non-hazardous solid waste was loaded into a roll off box and 30 cubic yards (one box) was sent off site to Republic for disposal.
- Continued loading scrap metal into roll off boxes. Continued separating, decontaminating and staging scrap metal on site, and sent two 30-cubic yard roll-off boxes of scrap metal off for reclamation.
- 100 cubic yards (4 boxes) of environmentally hazardous waste solids were sent to Clean Harbors in Chicago, IL.
- Backfilled all remaining pits in the building.
- Asbestos abatement team from Veolia completed friable asbestos abatement on October 16th. Disposal of asbestos roll-off box occurred on October 18th. However, inspection by WDNR on October 24th found that the asbestos abatement was incomplete. Additional asbestos abatement was conducted on October 30th to complete this task.
- Completed removal of contaminated soils along the south side of the building down to a maximum depth of two feet, except in the area of the blower, where the excavation continued to approximately 4 feet. Backfilled the soil excavations with clean fill & gravel.
- Finished scrap reclamation.
- Disposed of remaining flammable liquids and aerosols.
- Disposed of remaining sodium dithionite, cyanide solutions, cyanide solids and basic liquids.
- Disposed of mercury wastes discovered in building.
- Decontaminated floors and walls.



- Waste flammable liquids were submitted for fuel blending.
- Metal Scrap was recycled.

### **3. Public Information and Community Relations Activity**

(Not Applicable)

**TABLE 2**  
**WASTE DISPOSAL SUMMARY**  
**PLATING ENGINEERING SITE**

WASTE CATEGORY	QUANTITY	DATE SHIPPED	MANIFEST NUMBER	DISPOSAL METHOD	FACILITY, LOCATION
Non-hazardous solid (RCRA empty drums and Debris)	3.64 TN	08/07/07	00001	LANDFILL	KESTREL HAWK, RACINE, WI
Non-hazardous solid (RCRA empty drums and Debris)	30 YD <sup>3</sup>	08/09/07	00002	LANDFILL	KESTREL HAWK, RACINE, WI
Non-hazardous solid (RCRA empty drums and Debris)	30 YD <sup>3</sup>	08/09/07	00003	LANDFILL	KESTREL HAWK, RACINE, WI
Non-hazardous solid (RCRA empty drums and Debris)	30 YD <sup>3</sup>	08/16/07	00004	LANDFILL	KESTREL HAWK, RACINE, WI
Non-hazardous solid (RCRA empty drums and Debris)	30 YD <sup>3</sup>	08/23/07	00005	LANDFILL	KESTREL HAWK, RACINE, WI
Non-hazardous solid (RCRA empty drums and Debris)	30 YD <sup>3</sup>	08/28/07	00006	LANDFILL	KESTREL HAWK, RACINE, WI
Non-hazardous solid (RCRA empty drums and Debris)	30 YD <sup>3</sup>	09/10/07	00007	LANDFILL	KESTREL HAWK, RACINE, WI
Non-hazardous solid (RCRA empty drums and Debris)	30 YD <sup>3</sup>	09/17/07	00008	LANDFILL	KESTREL HAWK, RACINE, WI
Non-hazardous solid (RCRA empty drums and Debris)	30 YD <sup>3</sup>	09/28/07	00009	LANDFILL	KESTREL HAWK, RACINE, WI
Non-hazardous solid (RCRA empty drums and Debris)	30 YD <sup>3</sup>	10/09/07	00010	LANDFILL	KESTREL HAWK, RACINE, WI
R.Q., HAZARDOUS WASTE, 8, UN1755, II, D002, D006, D007, D008- CHROMIC ACID SOLUTION	3919 G	08/10/07	001424145 FLE	DEEP WELL INJECTION	VICKERY ENVIRONMENTAL, INC, VICKERY, OH
R.Q., HAZARDOUS WASTE, 8, UN1755, II, D002, D006, D007, D008- CHROMIC ACID SOLUTION	3768 G	08/10/07	001424146 FLE	DEEP WELL INJECTION	VICKERY ENVIRONMENTAL, INC, VICKERY, OH

**TABLE 2 (CONT)**  
**WASTE DISPOSAL SUMMARY**  
**PLATING ENGINEERING SITE**

WASTE CATEGORY	QUANTITY	DATE SHIPPED	MANIFEST NUMBER	DISPOSAL METHOD	FACILITY, LOCATION
R.Q., HAZARDOUS WASTE, 8, UN1755, II, D002, D006, D007, D008- CHROMIC ACID SOLUTION	3518 G	08/10/07	001424147 FLE	DEEP WELL INJECTION	VICKERY ENVIRONMENTAL, INC, VICKERY, OH
R.Q., HAZARDOUS WASTE, 8, UN1755, II, D002, D006, D007, D008- CHROMIC ACID SOLUTION	4640 G	08/10/07	001424148 FLE	DEEP WELL INJECTION	VICKERY ENVIRONMENTAL, INC, VICKERY, OH
R.Q., HAZARDOUS WASTE, 8, UN1755, II, D002, D006, D007, D008- CHROMIC ACID SOLUTION	3282 G	08/14/07	001424149 FLE	DEEP WELL INJECTION	VICKERY ENVIRONMENTAL, INC, VICKERY, OH
R.Q., HAZARDOUS WASTE, 8, UN1755, II, D002, D006, D007, D008- CHROMIC ACID SOLUTION	4297 G	08/15/07	001424150 FLE	DEEP WELL INJECTION	VICKERY ENVIRONMENTAL, INC, VICKERY, OH
R.Q., HAZARDOUS WASTE, 8, UN1755, II, D002, D006, D007, D008- CHROMIC ACID SOLUTION	4589 G	08/29/07	001424151 FLE	DEEP WELL INJECTION	VICKERY ENVIRONMENTAL, INC, VICKERY, OH
R.Q., HAZARDOUS WASTE, 8, UN1755, II, D002, D006, D007, D008- CHROMIC ACID SOLUTION	4780 G	08/29/07	001424152 FLE	DEEP WELL INJECTION	VICKERY ENVIRONMENTAL, INC, VICKERY, OH
R.Q., HAZARDOUS WASTE, 8, UN1755, II, D002, D006, D007, D008- CHROMIC ACID SOLUTION	4604 G	09/27/07	001424153 FLE	DEEP WELL INJECTION	VICKERY ENVIRONMENTAL, INC, VICKERY, OH
R.Q., WASTE AMMONIA SOLUTIONS, 8, UN2672 PG III (RQ = D002 = 100) ERG 154	100 G	09/27/07	000592664 JJK	WASTEWATER TREATMENT	POLLUTION CONTROL INDUSTRIES, EAST CHICAGO, IN

**TABLE 2 (CONT.)  
WASTE DISPOSAL SUMMARY  
PLATING ENGINEERING SITE**

WASTE CATEGORY	QUANTITY	DATE SHIPPED	MANIFEST NUMBER	DISPOSAL METHOD	FACILITY, LOCATION
R.Q., HAZARDOUS WASTE LIQUID, N.O.S., 9, NA3082 PG III	4500 G	09/13/07	001422499 JJK	WASTEWATER TREATMENT	EQ DETROIT INC, DETROIT, MI
R.Q., HAZARDOUS WASTE LIQUIDS, N.O.S., (CHROME, LEAD) NA3082, PG III	5000 G	09/19/07	001426625 JJK	WASTEWATER TREATMENT	EQ DETROIT INC, DETROIT, MI
R.Q., HAZARDOUS WASTE LIQUIDS, N.O.S., (CHROME, LEAD) NA3082, PG III	4125 G	09/24/07	001422482 JJK	WASTEWATER TREATMENT	EQ DETROIT INC, DETROIT, MI
WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD, TRICHLOROETHYLENE), 9, UN3077, PG III	25 YD <sup>3</sup>	09/11/07	000533815 FLE	LANDFILL	CLEAN HARBORS SERVICES INC, CHICAGO, IL
WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD, TRICHLOROETHYLENE), 9, UN3077, PG III	25 YD <sup>3</sup>	09/13/07	000533817 FLE	LANDFILL	CLEAN HARBORS SERVICES INC, CHICAGO, IL
WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD, TRICHLOROETHYLENE), 9, UN3077, PG III	20 YD <sup>3</sup>	09/24/07	000533816 FLE	LANDFILL	CLEAN HARBORS SERVICES INC, CHICAGO, IL
WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD, TRICHLOROETHYLENE), 9, UN3077, PG III	25 YD <sup>3</sup>	09/26/07	001085424 FLE	LANDFILL	CLEAN HARBORS SERVICES INC, CHICAGO, IL

**WASTE DISPOSAL SUMMARY  
PLATING ENGINEERING SITE**

WASTE CATEGORY	QUANTITY	DATE SHIPPED	MANIFEST NUMBER	DISPOSAL METHOD	FACILITY, LOCATION
WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD, TRICHLOROETHYLENE), 9, UN3077, PG III	25 YD <sup>3</sup>	09/28/07	000533980 FLE	LANDFILL	CLEAN HARBORS SERVICES INC, CHICAGO, IL
WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD, TRICHLOROETHYLENE), 9, UN3077, PG III	25 YD <sup>3</sup>	10/02/07	000915846 FLE	LANDFILL	CLEAN HARBORS SERVICES INC, CHICAGO, IL
WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD, TRICHLOROETHYLENE), 9, UN3077, PG III	25 YD <sup>3</sup>	10/04/07	000915847 FLE	LANDFILL	CLEAN HARBORS SERVICES INC, CHICAGO, IL
WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD, TRICHLOROETHYLENE), 9, UN3077, PG III	25 YD <sup>3</sup>	10/09/07	000915865 FLE	LANDFILL	CLEAN HARBORS SERVICES INC, CHICAGO, IL
WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD, TRICHLOROETHYLENE), 9, UN3077, PG III	25 YD <sup>3</sup>	10/11/07	000915823 FLE	LANDFILL	CLEAN HARBORS SERVICES INC, CHICAGO, IL
WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD, TRICHLOROETHYLENE), 9, UN3077, PG III	25 YD <sup>3</sup>	10/17/07	001836493 FLE	LANDFILL	CLEAN HARBORS SERVICES INC, CHICAGO, IL

**TABLE 2 (CONT.)  
WASTE DISPOSAL SUMMARY  
PLATING ENGINEERING SITE**

WASTE CATEGORY	QUANTITY	DATE SHIPPED	MANIFEST NUMBER	DISPOSAL METHOD	FACILITY, LOCATION
WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD, TRICHLOROETHYLENE), 9, UN3077, PG III	25 YD <sup>3</sup>	10/19/07	001836494 FLE	LANDFILL	CLEAN HARBORS SERVICES INC, CHICAGO, IL
R.Q., WASTE CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S., 8, UN3264, PG II	2860 G	09/17/07	002845934 JJK	SOLIDIFICATION / LANDFILL	MICHIGAN DISPOSAL WASTE TREATMENT PLANT, BELLEVILLE, MI
R.Q., WASTE CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S., 8, UN3264, PG II	3300 G	09/21/07	002845935 JJK	SOLIDIFICATION / LANDFILL	MICHIGAN DISPOSAL WASTE TREATMENT PLANT, BELLEVILLE, MI
R.Q., WASTE CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S., 8, UN3264, PG II	2640 G	10/04/07	002845936 JJK	SOLIDIFICATION / LANDFILL	MICHIGAN DISPOSAL WASTE TREATMENT PLANT, BELLEVILLE, MI
WASTE, SODIUM DITHIONITE, 4.2, UN1384, PGII	400 P	10/16/07	002890623 JJK		VON ROLL AMERICA EAST LIVERPOOL, OH
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42077 / 352500	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42078 / 352501	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42079 / 352502	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42080 / 352504	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42081 / 352507	LANDFILL	KESTREL HAWK, RACINE, WI

**TABLE 2 (CONT.)  
WASTE DISPOSAL SUMMARY  
PLATING ENGINEERING SITE**

WASTE CATEGORY	QUANTITY	DATE SHIPPED	MANIFEST NUMBER	DISPOSAL METHOD	FACILITY, LOCATION
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42082 / 352508	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42083 / 352521	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42084 / 352527	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42085 / 352545	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42086 / 352546	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42089 / 352550	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42090 / 352554	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/15/07	42091 / 352559	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	42092	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	42093	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	42094	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	42096	LANDFILL	KESTREL HAWK, RACINE, WI

**TABLE 2 (CONT.)  
WASTE DISPOSAL SUMMARY  
PLATING ENGINEERING SITE**

WASTE CATEGORY	QUANTITY	DATE SHIPPED	MANIFEST NUMBER	DISPOSAL METHOD	FACILITY, LOCATION
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	38133	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	38134	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	38135	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	38136	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	38137	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	38138	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	38139	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	38140	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	38141	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	38142	LANDFILL	KESTREL HAWK, RACINE, WI
Low Level Chrome and Lead Contaminated Soil	20 T	10/16/07	38143	LANDFILL	KESTREL HAWK, RACINE, WI
Asbestos Containing Material	30 CY	10/18/07	1578	LANDFILL	KESTREL HAWK, RACINE, WI



**TABLE 2 (CONT.)  
WASTE DISPOSAL SUMMARY  
PLATING ENGINEERING SITE**

WASTE CATEGORY	QUANTITY	DATE SHIPPED	MANIFEST NUMBER	DISPOSAL METHOD	FACILITY, LOCATION
Asbestos Containing Material	5 CY	10/18/07	1579	LANDFILL	KESTREL HAWK, RACINE, WI
Universal Waste: Fluorescent Lamps, Not DOT Regulated	50 P	10/16/07	002890610 JJK	PROCESSING	EQ TRANSFER & PROCESSING DETROIT, MI
Universal Waste: Fluorescent Lamps, Not DOT Regulated, UN	50 P	10/16/07	002890610 JJK	PROCESSING	EQ TRANSFER & PROCESSING DETROIT, MI
Universal Waste: Mercury Vapor Lamps, Not DOT Regulated, UN	50 P	10/16/07	002890610 JJK	PROCESSING	EQ TRANSFER & PROCESSING DETROIT, MI
RQ, WASTE, MERCURY 8, UN2809, PGIII	10 P	10/16/07	002890609 JJK	RECYCLING	MICHIGAN DISPOSAL WASTE TREATMENT PLANT, BELLEVILLE, MI
RQ, HAZARDOUS WASTE, LIQUID, N.O.S., (SODIUM HYDROXIDE), 9, NA3082, PGIII	385 G	10/16/07	002890606 JJK	NEUTRALIZE / LANDFILL	EQ DETROIT INC, DETROIT, MI
W.CORROSIVE SOLIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, UN3262, PGII	1000 LB	10/16/07	002890606 JJK	NETRAULIZE / LANDFILL	EQ DETROIT INC, DETROIT, MI
CYANIDES, INORGANIC, SOLID, N.O.S., 6.1, UN1588, PGII	1200 LB	10/16/07	002890606 JJK	DESTRUCTION	EQ DETROIT INC, DETROIT, MI

**TABLE 2 (CONT.)  
WASTE DISPOSAL SUMMARY  
PLATING ENGINEERING SITE**

WASTE CATEGORY	QUANTITY	DATE SHIPPED	MANIFEST NUMBER	DISPOSAL METHOD	FACILITY, LOCATION
RQ, WASTE CYANIDE SOLUTIONS, N.O.S. (LEAD, SELENIUM), 6.1, UN2810, PGIII	385 G	10/16/07	002890606 JJK	DESTRUCTION	EQ DETROIT INC, DETROIT, MI
RQ, WASTE, AEROSOLS, FLAMMABLE, 2.1, UN1950	20 LB	10/16/07	002890621 JJK	FUEL BLENDING	EQ DETROIT INC, DETROIT, MI
WASTE, SODIUM DITHIONITE, 4.2, UN1384, PGII	400 LB	10/16/07	002890623 JJK	INCINERATION	VON ROLL AMERICA, EAST LIVERPOOL, OH
RQ, WASTE, MERCURY, 8, UN2809, PGIII	10 LB	10/16/07	002890609 JJK	RECLAMATION	MICHIGAN DISPOSAL WASTE TREATMENT PLANT, BELLEVILLE, MI
Cyanides, Inorganic, solid, n.o.s., 6.1, UN1588, PGII	165 G	10/05/07	001889713 JJK	DESTRUCTION	EQ DETROIT, INC. DETROIT, MI (RE MANIFESTED 3 DRUMS FROM 002845934)
RQ, WASTE FLAMMABLE LIQUID, N.O.S. (TRICHLOROETHANE, LEAD), 3, UN1993, PGII	385 LB	10/16/07	002890621 JJK	FUEL BLENDING	EQ DETROIT INC, DETROIT, MI

**TABLE 2 (CONT.)  
WASTE DISPOSAL SUMMARY  
PLATING ENGINEERING SITE**

WASTE CATEGORY	QUANTITY	DATE SHIPPED	MANIFEST NUMBER	DISPOSAL METHOD	FACILITY, LOCATION
METAL SCRAP	7103 LB	08/21/07	NA	RECYCLE	ACTION METALS
METAL SCRAP	9126 LB	08/24/07	NA	RECYCLE	ACTION METALS
METAL SCRAP	8755 LB	08/30/07	NA	RECYCLE	ACTION METALS
METAL SCRAP	7973 LB	09/05/07	NA	RECYCLE	ACTION METALS
METAL SCRAP	13345 LB	09/12/07	NA	RECYCLE	ACTION METALS
METAL SCRAP	8812 LB	09/26/07	NA	RECYCLE	ACTION METALS
METAL SCRAP	8787 LB	09/27/07	NA	RECYCLE	ACTION METALS
METAL SCRAP	6896 LB	09/28/07	NA	RECYCLE	ACTION METALS
METAL SCRAP	6220 LB	10/02/07	NA	RECYCLE	ACTION METALS
METAL SCRAP	8380 LB	10/17/07	NA	RECYCLE	ACTION METALS
METAL SCRAP (CU)	2.31 LB	10/18/07	NA	RECYCLE	ACTION METALS
METAL SCRAP	6040 LB	10/19/07	NA	RECYCLE	ACTION METALS

**E. RESOURCES COMMITTED**

Extramural Costs:

Total ERRS Contractor Costs:	\$565,673
Total STNJV START Costs:	\$ 61,650
Extramural Subtotal	\$627,319

Estimated Total Project Costs	\$677,319
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Project Ceiling	\$750,000
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**II. EFFECTIVENESS OF REMOVAL ACTIVITIES**

**A. ACTIONS TAKEN BY PRPs**

(Not Applicable)

**B. ACTIONS TAKEN BY STATE AND LOCAL FORCES**

(Not Applicable)

**C. ACTIONS TAKEN BY FEDERAL AGENCIES AND SPECIAL TEAMS**

(Not Applicable)

**D. ACTIONS TAKEN BY CONTRACTORS, PRIVATE GROUPS, AND VOLUNTEERS**

The U.S. EPA ERRS contractor, EQM, conducted the removal of ACM, waste plating solutions, mercury, soil and debris from the Site. The ERRS contractor coordinated the transportation and

disposal of all waste streams, and arranged for Site security, utilities, and the use of necessary equipment, such as an excavator, loader, Bobcat®, and tanker truck, to perform the removal action. All subcontractors were procured by ERRS.

The U.S. EPA START contractor, STNJV, provided technical support for the U.S. EPA while onsite. In addition, STNJV START performed general and health and safety oversight, documentation of all Site activities, air monitoring, multi-media sampling, and START-related cost tracking.

Two contracted laboratories were used to perform all analyses required during removal activities. EMSL Analytical, Inc. located at 2444 W. George Street, Chicago, Illinois, performed the analyses of all asbestos samples. Microbac Laboratories, located at 250 West 84<sup>th</sup> Drive, Merrillville, Indiana, performed all additional analytical work for the Site.

### **III. DIFFICULTIES ENCOUNTERED**

#### **A. ITEMS THAT AFFECTED THE RESPONSE**

(Not Applicable)

#### **B. ISSUES OF INTERGOVERNMENTAL COORDINATION**

(Not Applicable)

#### **C. DIFFICULTIES INTERPRETING, COMPLYING WITH, OR IMPLEMENTING POLICIES AND REGULATIONS**

(Not Applicable)

### **IV. RECOMMENDATIONS**

#### **A. MEANS TO PREVENT RECURRENCE OF THE DISCHARGE OR RELEASE**

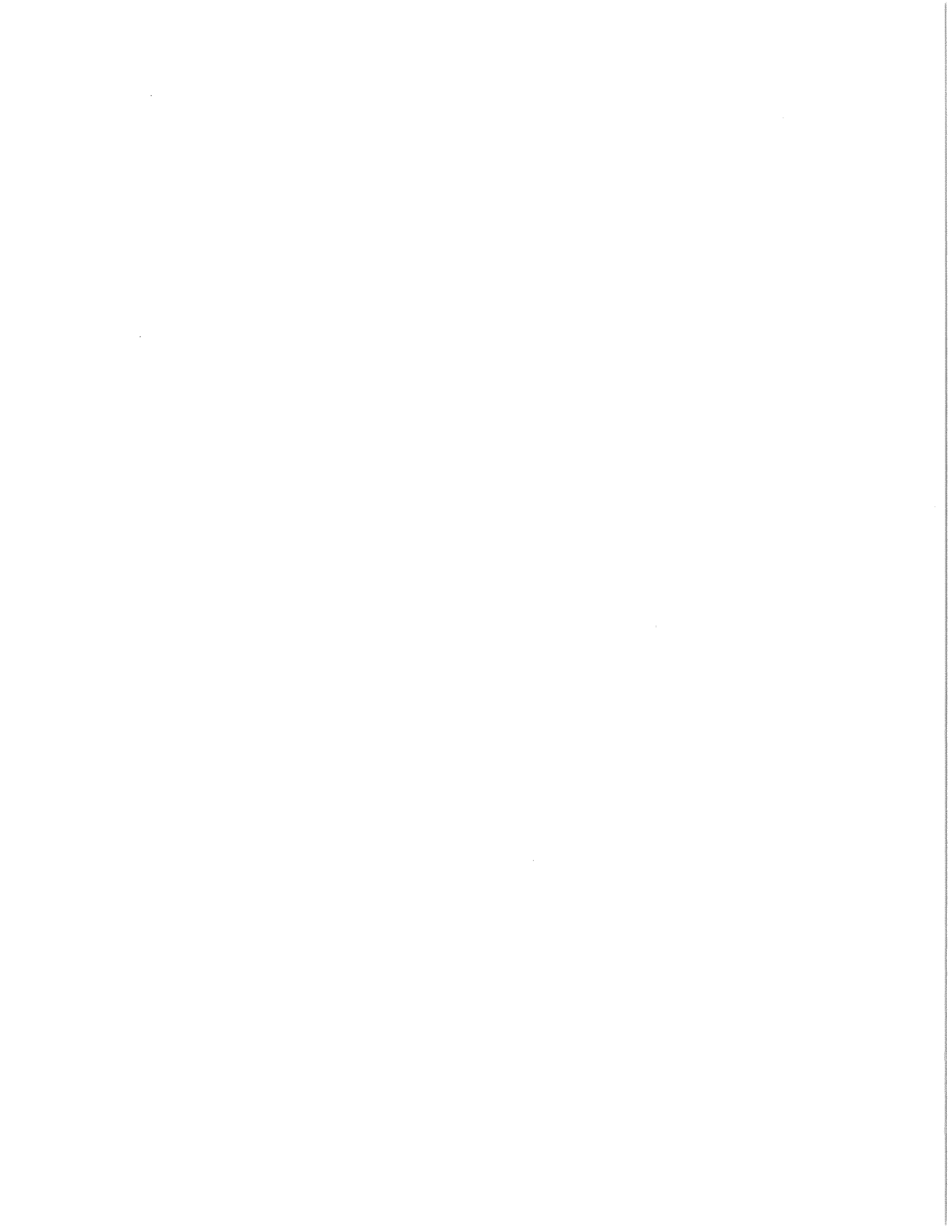
The OSC has identified significant contamination remaining in soils and groundwater beneath the building. The Wisconsin Department of Natural Resources has conducted sampling to determine the levels of these contaminants which remain. The City of West Allis is evaluating the availability of a Brownfield grant to address the remaining contamination.

#### **B. MEANS TO IMPROVE RESPONSE ACTIONS**

(Not Applicable)

#### **C. PROPOSALS FOR CHANGES IN REGULATIONS AND RESPONSE PLANS**

(Not Applicable)



ATTACHMENT A  
PHOTOGRAPHIC DOCUMENTATION

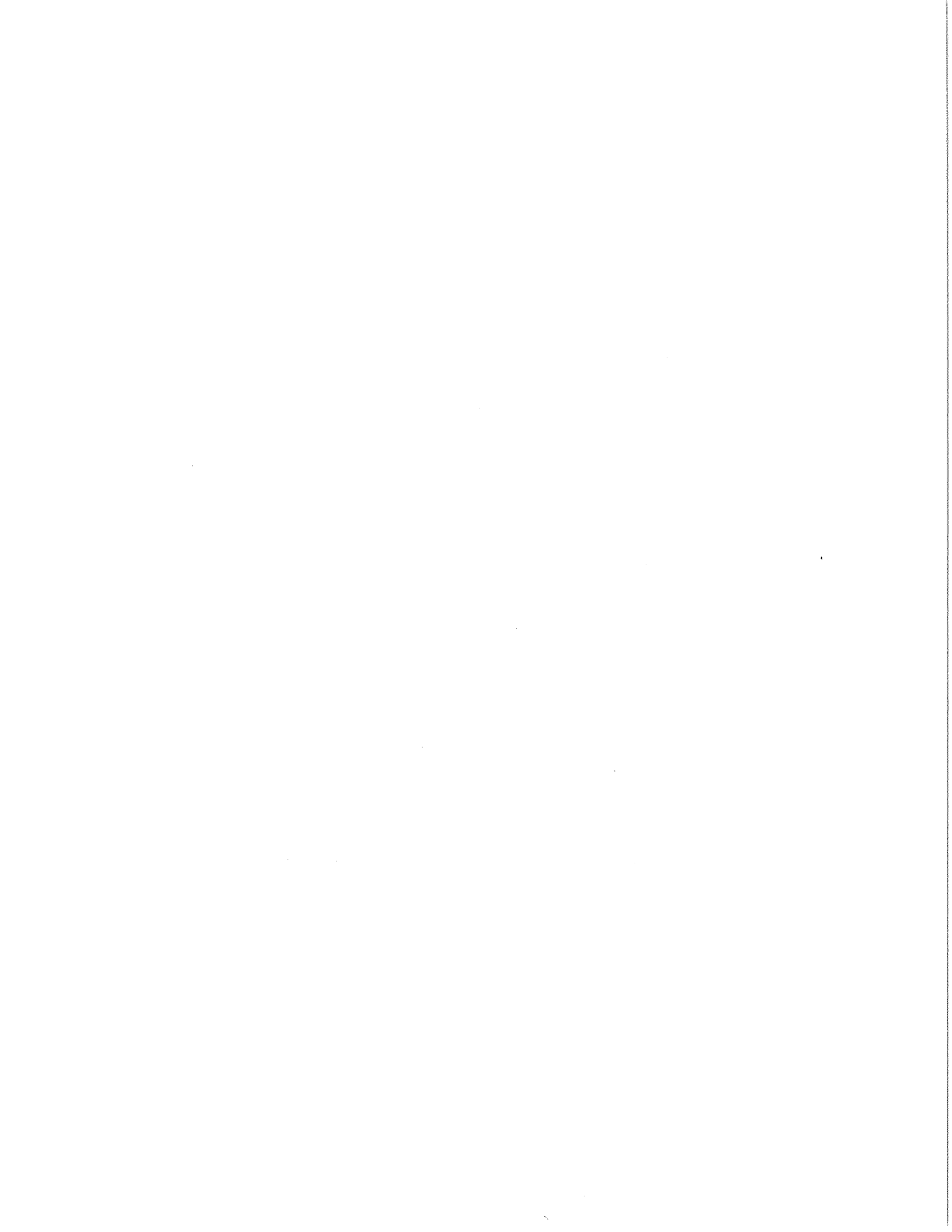






Photo 1: Hazcatting and segregation of drums, vats and containers.



Photo 2: Lumex surveying of building to detect beads of mercury (note mercury beads were marked as orange rings on floor).



Photo 3: Emptying of Plating Vats.



Photo 4: Vac Truck used to empty plating vats.



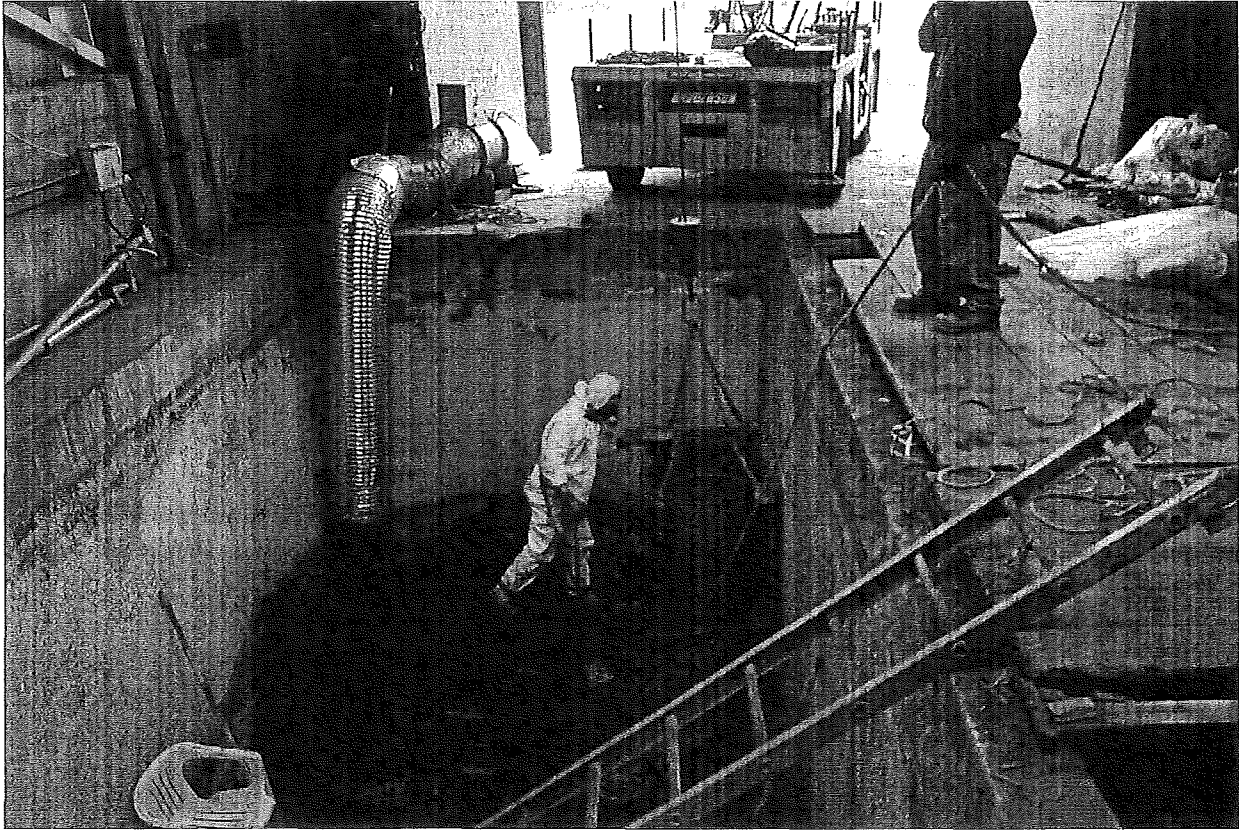


Figure 5. Cleaning out pit where one of two large plating vats was housed.



Figure 6. Excavation of contaminated soils along the south side of building.

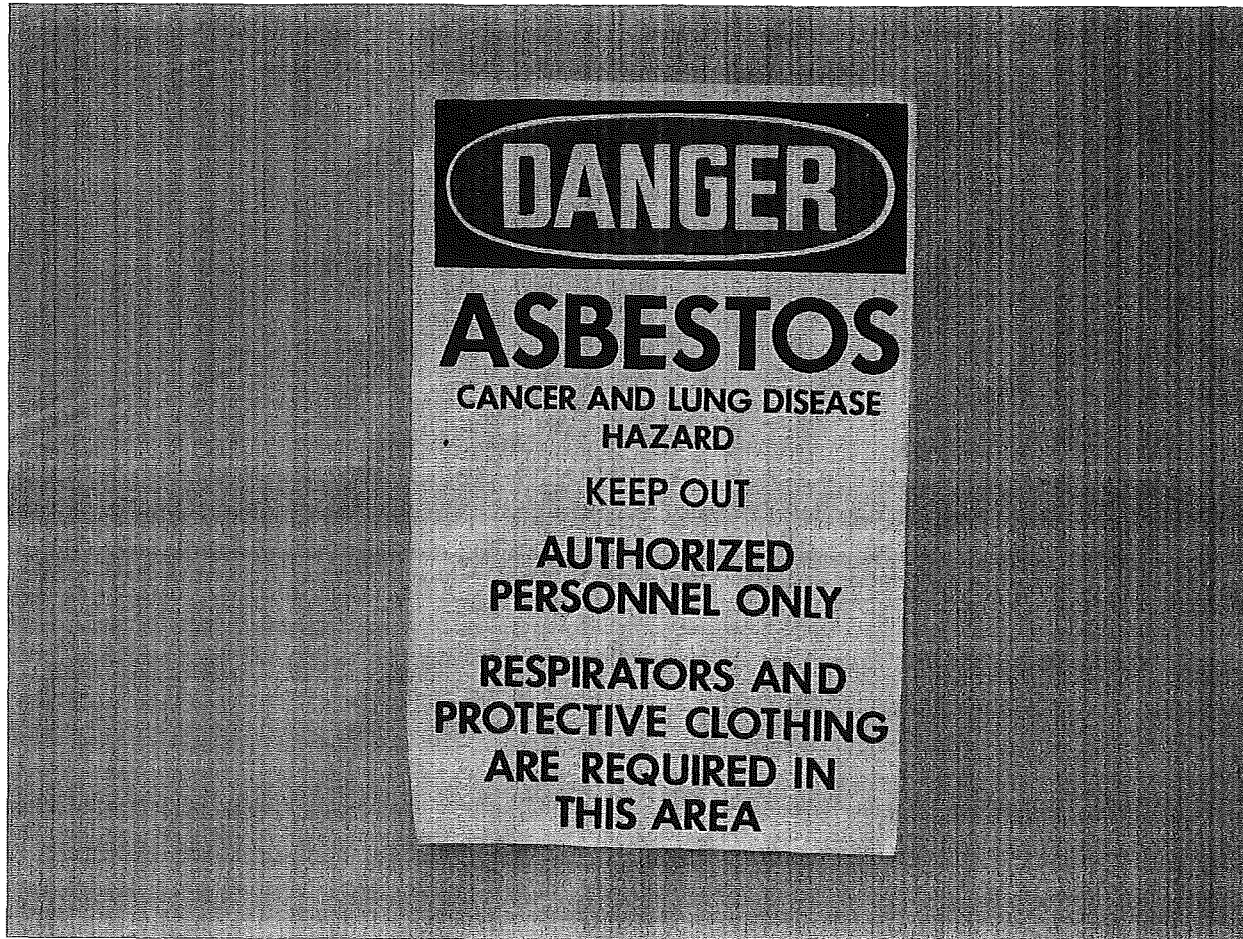
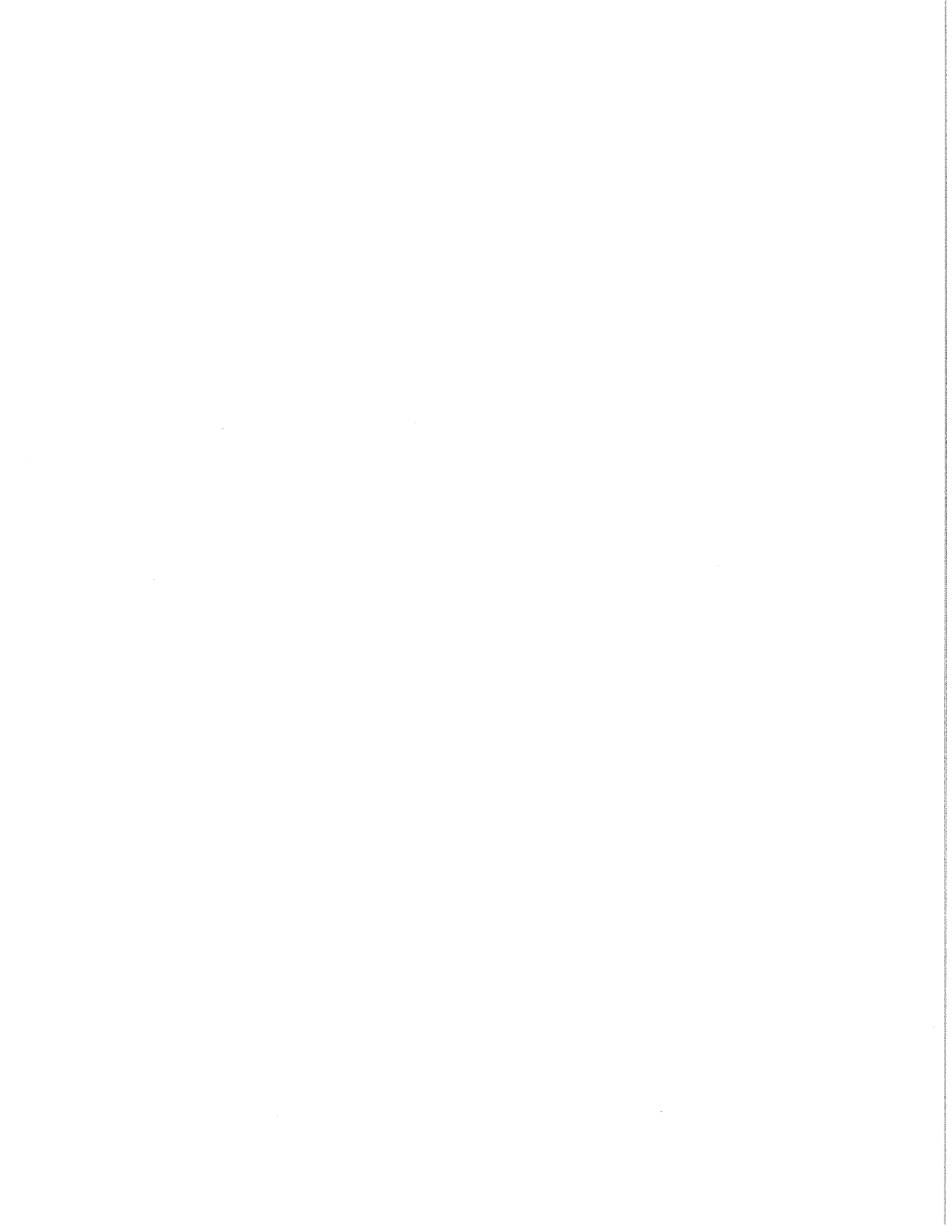


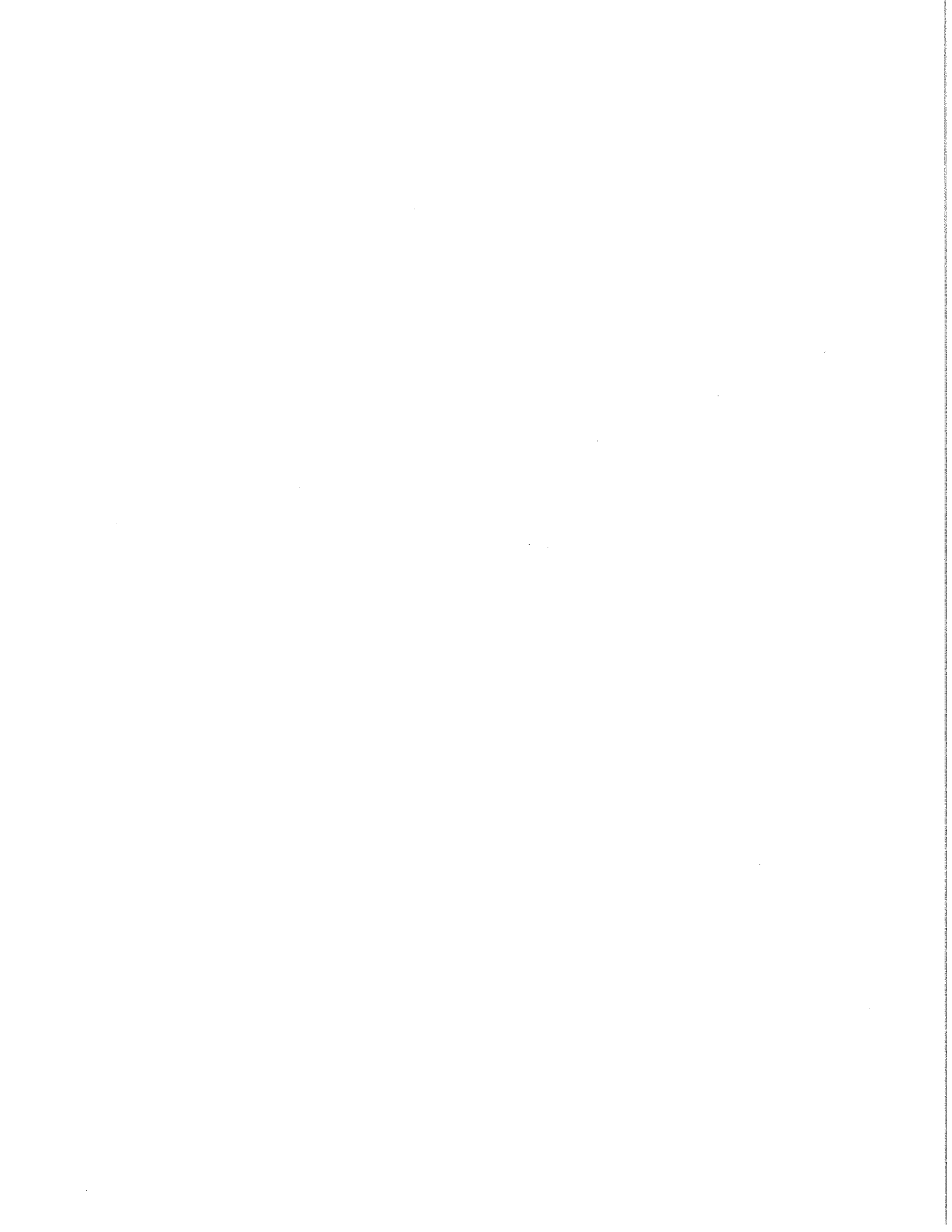
Figure 7. Signage used during asbestos abatement.

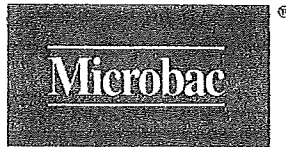


ATTACHMENT B  
ANALYTICAL RESULTS



ATTACHMENT B1  
DEBRIS/SOIL DISPOSAL CHARACTERIZATION SAMPLING RESULTS





August 07, 2007

Aaron Roski  
Environmental Quality Management, Inc.  
1800 Carillon Boulevard  
Cincinnati, OH 45240

Work Order No.: ME0708127

RE: USEPA / Plating Engineer

Dear Aaron Roski:

Microbac Laboratories, Inc. received 1 sample on 8/3/2007 12:15:00 PM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,  
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "R. Misiunas", written over the printed name.

Ronald J. Misiunas  
Client Services Manager

Enclosures



**WORK ORDER SAMPLE SUMMARY**

**Date:** *Tuesday, August 07, 2007*

**CLIENT:** Environmental Quality Management, Inc.  
**Project:** USEPA / Plating Engineer  
**Lab Order:** ME0708127

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
ME0708127-01A	Debris		8/2/2007 1:45:00 PM	8/3/2007



# ANALYTICAL RESULTS

Date: *Tuesday, August 07, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** USEPA / Plating Engineer  
**Client Sample ID:** Debris  
**Sample Description:**  
**Sample Matrix:** Soil

**Work Order / ID:** ME0708127-01  
**Collection Date:** 08/02/07 13:45  
**Date Received:** 08/03/07 12:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TCLP MERCURY** Method: **SW1311/7470A** Prep Date/Time: **08/07/07 05:50** Analyst: **SAA**  
 Mercury A **0.013** 0.0050 mg/L 5 08/07/07 09:12

**TCLP METALS** Method: **SW1311/6010B** Prep Date/Time: **08/07/07 05:00** Analyst: **SAA**

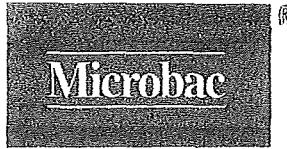
Arsenic	A	<b>0.050</b>	0.010		mg/L	1	08/07/07 08:48
Barium	A	<b>ND</b>	0.50		mg/L	1	08/07/07 08:48
Cadmium	A	<b>ND</b>	0.0020		mg/L	1	08/07/07 08:48
Chromium	A	<b>2.2</b>	0.0030		mg/L	1	08/07/07 08:48
Lead	A	<b>1.4</b>	0.0075		mg/L	1	08/07/07 08:48
Selenium	A	<b>0.074</b>	0.030		mg/L	1	08/07/07 08:48
Silver	A	<b>0.35</b>	0.010		mg/L	1	08/07/07 08:48

**TCLP SEMI-VOLATILE ORGANICS** Method: **SW1311/8270C** Prep Date/Time: **08/06/07 13:47** Analyst: **ALS**

1,4-Dichlorobenzene	A	<b>ND</b>	0.050		mg/L	1	08/06/07 20:38
2,4,5-Trichlorophenol	A	<b>ND</b>	0.050		mg/L	1	08/06/07 20:38
2,4,6-Trichlorophenol	A	<b>ND</b>	0.050		mg/L	1	08/06/07 20:38
2,4-Dinitrotoluene	A	<b>ND</b>	0.050		mg/L	1	08/06/07 20:38
2-Methylphenol	A	<b>ND</b>	0.050		mg/L	1	08/06/07 20:38
3/4-Methylphenol	A	<b>ND</b>	0.050		mg/L	1	08/06/07 20:38
Hexachlorobenzene	A	<b>ND</b>	0.050		mg/L	1	08/06/07 20:38
Hexachlorobutadiene	A	<b>ND</b>	0.050		mg/L	1	08/06/07 20:38
Hexachloroethane	A	<b>ND</b>	0.050		mg/L	1	08/06/07 20:38
Nitrobenzene	A	<b>ND</b>	0.050		mg/L	1	08/06/07 20:38
Pentachlorophenol	A	<b>ND</b>	0.25		mg/L	1	08/06/07 20:38
Pyridine	A	<b>ND</b>	0.050		mg/L	1	08/06/07 20:38
Total Cresol	A	<b>ND</b>	0.050		mg/L	1	08/06/07 20:38
Surr: Nitrobenzene-d5	S	51.8	10-121		%REC	1	08/06/07 20:38
Surr: 2-Fluorobiphenyl	S	48.3	5.58-109		%REC	1	08/06/07 20:38
Surr: Terphenyl-d14	S	79.1	10-130		%REC	1	08/06/07 20:38
Surr: Phenol-d5	S	55.9	10-100		%REC	1	08/06/07 20:38
Surr: 2-Fluorophenol	S	53.8	10-84.7		%REC	1	08/06/07 20:38
Surr: 2,4,6-Tribromophenol	S	73.6	10-120		%REC	1	08/06/07 20:38

**TCLP VOLATILES** Method: **SW1311/8260B** Prep Date/Time: **08/06/07 16:15** Analyst: **MLT**

Benzene	A	<b>ND</b>	0.050		mg/L	10	08/07/07 14:14
2-Butanone	A	<b>ND</b>	0.10		mg/L	10	08/07/07 14:14
Carbon tetrachloride	A	<b>ND</b>	0.050		mg/L	10	08/07/07 14:14
Chlorobenzene	A	<b>ND</b>	0.050		mg/L	10	08/07/07 14:14
Chloroform	A	<b>ND</b>	0.050		mg/L	10	08/07/07 14:14
1,1-Dichloroethene	A	<b>ND</b>	0.050		mg/L	10	08/07/07 14:14
1,2-Dichloroethane	A	<b>ND</b>	0.050		mg/L	10	08/07/07 14:14



**ANALYTICAL RESULTS**

Date: *Tuesday, August 07, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** USEPA / Plating Engineer  
**Client Sample ID:** Debris  
**Sample Description:**  
**Sample Matrix:** Soil

**Work Order / ID:** ME0708127-01  
**Collection Date:** 08/02/07 13:45  
**Date Received:** 08/03/07 12:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TCLP VOLATILES**

Method: **SW1311/8260B**

Prep Date/Time: **08/06/07 16:15** Analyst: **MLT**

1,4-Dichlorobenzene	A	<i>ND</i>	0.050		mg/L	10	08/07/07 14:14
Tetrachloroethene	A	<i>ND</i>	0.050		mg/l	10	08/07/07 14:14
Trichloroethene	A	<i>ND</i>	0.050		mg/L	10	08/07/07 14:14
Vinyl chloride	A	<i>ND</i>	0.050		mg/L	10	08/07/07 14:14
Surr: 4-Bromofluorobenzene	S	94.7	72.4-120		%REC	10	08/07/07 14:14
Surr: Dibromofluoromethane	S	102	80.2-126		%REC	10	08/07/07 14:14
Surr: Toluene-d8	S	105	83.9-117		%REC	10	08/07/07 14:14
Surr: 1,2-Dichloroethane-d4	S	113	74.4-132		%REC	10	08/07/07 14:14

**CORROSIVITY BY PH**

Method: **SW9045C**

Prep Date/Time: Analyst: **SMA**

pH	A	6.8	0.1		pH Units	1	08/06/07 15:40
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**CYANIDE, REACTIVE**

Method: **SW7.3.3.2\_R3**

Prep Date/Time: **08/06/07 11:30** Analyst: **RPL**

Reactive Cyanide	A	<i>ND</i>	20		mg/Kg	1	08/06/07 16:03
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**SULFIDE, REACTIVE**

Method: **SW7.3.4.2\_R3**

Prep Date/Time: **08/06/07 11:30** Analyst: **SMA**

Reactive Sulfide	A	<i>ND</i>	10		mg/Kg	1	08/07/07 13:15
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**FLAGS, FOOTNOTES AND ABBREVIATIONS (as listed)**

NA = Not Analyzed	N/A = Not Applicable	cfu = Colony Forming Unit
mg/L = Milligrams per Liter (ppm)	ug/L = Micrograms per Liter (ppb)	ng/L = Nanograms per Liter (ppt)
mg/Kg = Milligrams per Kilogram (ppm)	ug/Kg = Micrograms per Kilogram (ppb)	
U = Undetected		
J = Analyte concentration detected between RL and MDL (Metals / Organics)		
B = Detected in the associated Method Blank at a concentration above the routine PQL/RL		
b = Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL		
D = Surrogate recoveries are not calculated due to sample dilution		
ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)		
E = Value above quantitation range		
H = Analyte was prepared and/or analyzed outside of the analytical method holding time		
I = Matrix Interference		
R = RPD outside accepted recovery limits		
S = Spike recovery outside recovery limits		
Surr = Surrogate		
DF = Dilution Factor	RL = Reporting Limit	ST = Sample Type
		MDL = Method Detection Limit

**SAMPLE TYPES**

A = Analyte
I = Internal Standard
S = Surrogate
T = Tentatively Identified Compound (TIC, concentration estimated)

**QC SAMPLE IDENTIFICATIONS**

MBLK = Method Blank	ICSA = Interference Check Standard "A"	OPR = Ongoing Precision and Recovery Standard
DUP = Method Duplicate	ICSAB = Interference Check Standard "AB"	
LCS = Laboratory Control Sample	LCSD = Laboratory Control Sample Duplicate	
MS = Matrix Spike	MSD = Matrix Spike Duplicate	
ICB = Initial Calibration Blank	CCB = Continuing Calibration Blank	
ICV = Initial Calibration Verification	CCV = Continuing Calibration Verification	
PDS = Post Digestion Spike	SD = Serial Dilution	

**CERTIFICATIONS**

*Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.*

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

**MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)**

Baltimore Division - Baltimore, MD	Kentucky Division - Louisville, KY	New Castle Division - New Castle, PA
Camp Hill Division - Camp Hill, PA	Kentucky Division (Sat) - Evansville, IN	Pittsburgh Division - Warrendale, PA
Camp Hill Division (SC) - Pittston, PA	Kentucky Division (Sat) - Lexington, KY	Richmond Division - Richmond, VA
Chicagoland Division - Merrillville, IN	Kentucky Division (Sat) - Paducah, KY	South Carolina Division - New Ellenton, SC
Chicagoland Division (SC) - Indianapolis, IN	Knoxville Division - Maryville, TN	South Jersey Division - Turnersville, NJ
Corona Division - Corona, CA	Massachusetts Division - Marlborough, MA	Southern Headquarters - Poquoson, VA
Erie Division - Erie, PA	Microbac Corporate Office - Wexford, PA	Southern Testing Division - Wilson, NC
Fayetteville Division - Fayetteville, NC	Microbac NY - Cortland Office - Cortland, NY	Southern Testing Division (Sat) - Greensboro, NC
Hauser Division - Boulder, CO	Microbac NY - Waverly Office - Waverly, NY	Venice Division - Venice, FL

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664



**COOLER INSPECTION**

**Date:** Tuesday, August 07, 2007

Client Name **EQM - CINCINNATI**

Date / Time Received: **8/3/2007 12:15:00 PM**

Work Order Number **ME0708127**

Received by: **KRS**

Checklist completed by **DPP** | **8/3/2007 2:04:57 PM**

Reviewed by **RJM** | **8/3/2007 3:40:16 PM**

Carrier name: **FedEx**

- After-Hour Arrival? Yes  No
- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody included sufficient client identification? Yes  No
- Chain of custody included sufficient sample collector information? Yes  No
- Chain of custody included a sample description? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Chain of custody identified the appropriate matrix? Yes  No
- Chain of custody included date of collection? Yes  No
- Chain of custody included time of collection? Yes  No
- Chain of custody identified the appropriate number of containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Chain of custody identified the appropriate preservatives (if preserved)? Yes  No
- Samples properly preserved? Yes  No

If No, adjusted by? \_\_\_\_\_ Date/Time \_\_\_\_\_

- Chain of custody included the requested analyses? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Samples received on ice? Yes  No

Container/Temp Blank temperatures Cooler Temp  
1 3 °C

VOA vials for aqueous samples have zero headspace? No VOA vials submitted  Yes  No

**ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.**

General Comments:

Sample ID	Client Sample ID	Comments
ME0708127-01A	Debris	Report in Dry Weight

Date: 07-Aug-07

Microbac Laboratories, Inc.

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** Environmental Quality Management, Inc.  
**Work Order:** ME0708127  
**Project:** USEPA / Plating Engineer

**BatchID:** 54556

Sample ID	SampType	TestCode	Units	Prep Date	Analysis Date	Run ID	SeqNo				
PB0806	MBLK	RCN_S	mg/Kg	8/6/2007 11:30:00 AM	8/6/2007 4:00:10 PM	LACHAT-2_070806B	1587635				
Client ID: ZZZZZ	Batch ID: 54556	TestNo: SW7.3.3.2_r3									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Reactive Cyanide	ND	4.0									
LCS0806	LCS	RCN_S	mg/Kg	8/6/2007 11:30:00 AM	8/6/2007 4:01:36 PM	LACHAT-2_070806B	1587636				
Client ID: ZZZZZ	Batch ID: 54556	TestNo: SW7.3.3.2_r3									
Reactive Cyanide	14.74	4.0	50	0	29.5	10	55.8	0	0		
ME0708127-01AMS	MS	RCN_S	mg/Kg	8/6/2007 11:30:00 AM	8/6/2007 4:04:27 PM	LACHAT-2_070806B	1587638				
Client ID: Debris	Batch ID: 54556	TestNo: SW7.3.3.2_r3									
Reactive Cyanide	ND	20	250.3	0	0	12	100	0	0		S
ME0708127-01AMSD	MSD	RCN_S	mg/Kg	8/6/2007 11:30:00 AM	8/6/2007 4:05:53 PM	LACHAT-2_070806B	1587639				
Client ID: Debris	Batch ID: 54556	TestNo: SW7.3.3.2_r3									
Reactive Cyanide	ND	19	241.5	0	0	12	100	0	0	30	S

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 H - Analyte was prepared and/or analyzed outside of the analytical method holding time  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected above reporting limit in the Method Blank  
 b - Analyte detected below reporting limit in the Method Blank

# ANALYTICAL QC SUMMARY REPORT

Environmental Quality Management, Inc.

Order: ME0708127

USEPA / Plating Engineer

Batch ID: 54557

Sample ID	Sample Type	Test Code	Units	Prep Date	Run ID	Seq No	Analysis Date	RPD Ref Val	%RPD	RPDLimit	Qual
ME0708127-01AMS	MS	RS_S	mg/Kg	8/6/2007 11:30:00 AM	SPEC-3_070807A	1587996	8/7/2007 1:15:00 PM	0	0		S
Debris	Batch ID: 54557	TestNo: SW7.3.4.2_r3									
Side	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	ND	0	50.05	0	0	10	53.2	0	0		S
ME0708127-01AMSD	MSD	RS_S	mg/Kg	8/6/2007 11:30:00 AM	SPEC-3_070807B	1587997	8/7/2007 1:15:00 PM	0	0	20	S
Debris	Batch ID: 54557	TestNo: SW7.3.4.2_r3									
Side	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	ND	0	48.31	0	0	10	53.2	0	0	20	S

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

H - Analyte was prepared and/or analyzed outside of the analytical method holding time

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected above reporting limit in the \_\_\_\_\_

b - Analyte detected below reporting limit in the \_\_\_\_\_

Method Blank

Method Blank

**CLIENT:** Environmental Quality Management, Inc.  
**Work Order:** ME0708127  
**Project:** USEPA / Plating Engineer

## ANALYTICAL QC SUMMARY REPORT

**BatchID: 54562**

Sample ID: <b>blk0802f11</b>	SampType: <b>mblk</b>	TestCode: <b>1311_b</b>	Units: <b>mg/L</b>	Prep Date: <b>8/6/2007 1:47:00 PM</b>	Run ID: <b>SVOA-2_070806A</b>
Client ID: <b>ZZZZZ</b>	Batch ID: <b>54562</b>	TestNo: <b>SW1311/8270</b>		Analysis Date: <b>8/6/2007 5:57:00 PM</b>	SeqNo: <b>1588003</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.0083	0.050									J
2,4,5-Trichlorophenol	ND	0.050									
2,4,6-Trichlorophenol	ND	0.050									
2,4-Dinitrotoluene	ND	0.050									
2-Methylphenol	ND	0.050									
3/4-Methylphenol	ND	0.050									
Hexachlorobenzene	ND	0.050									
Hexachlorobutadiene	ND	0.050									
Hexachloroethane	ND	0.050									
Nitrobenzene	ND	0.050									
Pentachlorophenol	ND	0.25									
Pyridine	ND	0.050									
Total Cresol	ND	0.050									
Surr: Nitrobenzene-d5	0.2572	0	0.5	0	51.4	10	121	0	0		
Surr: 2-Fluorobiphenyl	0.1986	0	0.5	0	39.7	5.58	109	0	0		
Surr: Terphenyl-d14	0.4063	0	0.5	0	81.3	10	130	0	0		
Surr: Phenol-d5	0.4118	0	0.75	0	54.9	10	100	0	0		
Surr: 2-Fluorophenol	0.3942	0	0.75	0	52.6	10	84.7	0	0		
Surr: 2,4,6-Tribromophenol	0.4616	0	0.75	0	61.5	10	120	0	0		

Sample ID: <b>blk0803f11</b>	SampType: <b>mblk</b>	TestCode: <b>1311_b</b>	Units: <b>mg/L</b>	Prep Date: <b>8/6/2007 1:47:00 PM</b>	Run ID: <b>SVOA-2_070806A</b>
Client ID: <b>ZZZZZ</b>	Batch ID: <b>54562</b>	TestNo: <b>SW1311/8270</b>		Analysis Date: <b>8/6/2007 8:11:00 PM</b>	SeqNo: <b>1588008</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.0078	0.050									J
2,4,5-Trichlorophenol	ND	0.050									
2,4,6-Trichlorophenol	ND	0.050									
2,4-Dinitrotoluene	ND	0.050									
2-Methylphenol	ND	0.050									
3/4-Methylphenol	ND	0.050									
Hexachlorobenzene	ND	0.050									

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected above reporting limit in the Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      b - Analyte detected below reporting limit in the Method Blank  
 H - Analyte was prepared and/or analyzed outside of the analytical method holding time

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Environmental Quality Management, Inc.  
**Work Order:** ME0708127  
**Project:** USEPA / Plating Engineer

**BatchID: 54562**

**Sample ID:** blk0803f11    **SampType:** mblk    **TestCode:** 1311\_b    **Units:** mg/L    **Prep Date:** 8/6/2007 1:47:00 PM    **Run ID:** SVOA-2\_070806A  
**Client ID:** ZZZZZ    **Batch ID:** 54562    **TestNo:** SW1311/8270    **Analysis Date:** 8/6/2007 8:11:00 PM    **SeqNo:** 1588008

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.050									
Hexachloroethane	ND	0.050									
Nitrobenzene	ND	0.050									
Pentachlorophenol	ND	0.25									
Pyridine	ND	0.050									
Total Cresol	ND	0.050									
Surr: Nitrobenzene-d5	0.2552	0	0.5	0	51	10	121	0		0	
Surr: 2-Fluorobiphenyl	0.2076	0	0.5	0	41.5	5.58	109	0		0	
Surr: Terphenyl-d14	0.3571	0	0.5	0	71.4	10	130	0		0	
Surr: Phenol-d5	0.3645	0	0.75	0	48.6	10	100	0		0	
Surr: 2-Fluorophenol	0.3758	0	0.75	0	50.1	10	84.7	0		0	
Surr: 2,4,6-Tribromophenol	0.4254	0	0.75	0	56.7	10	120	0		0	

**Sample ID:** lcs-3-080607    **SampType:** lcs    **TestCode:** 1311\_b    **Units:** mg/L    **Prep Date:** 8/6/2007 1:47:00 PM    **Run ID:** SVOA-2\_070806A  
**Client ID:** ZZZZZ    **Batch ID:** 54562    **TestNo:** SW1311/8270    **Analysis Date:** 8/6/2007 6:23:00 PM    **SeqNo:** 1588004

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.214	0.050	0.5	0	42.8	20.6	82	0		0	b
2,4-Dinitrotoluene	0.1695	0.050	0.5	0	33.9	23.5	95.4	0		0	J
Pentachlorophenol	0.2046	0.25	0.5	0	40.9	5	114	0		0	
Surr: Nitrobenzene-d5	0.2094	0	0.5	0	41.9	10	121	0		0	
Surr: 2-Fluorobiphenyl	0.1756	0	0.5	0	35.1	5.58	109	0		0	
Surr: Terphenyl-d14	0.3056	0	0.5	0	61.1	10	130	0		0	
Surr: Phenol-d5	0.2876	0	0.75	0	38.3	10	100	0		0	
Surr: 2-Fluorophenol	0.2943	0	0.75	0	39.2	10	84.7	0		0	
Surr: 2,4,6-Tribromophenol	0.3454	0	0.75	0	46	10	120	0		0	

**Sample ID:** me0708028-01ams    **SampType:** ms    **TestCode:** 1311\_b    **Units:** mg/L    **Prep Date:** 8/6/2007 1:47:00 PM    **Run ID:** SVOA-2\_070806A  
**Client ID:** ZZZZZ    **Batch ID:** 54562    **TestNo:** SW1311/8270    **Analysis Date:** 8/6/2007 7:17:00 PM    **SeqNo:** 1588006

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**Qualifiers:** ND - Not Detected at the Reporting Limit    S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits    R - RPD outside accepted recovery limits  
 H - Analyte was prepared and/or analyzed outside of the analytical method holding time

B - Analyte detected above reporting limit in the Method Blank  
 b - Analyte detected below reporting limit in the Method Blank

**CLIENT:** Environmental Quality Management, Inc.  
**Work Order:** ME0708127  
**Project:** USEPA / Plating Engineer

## ANALYTICAL QC SUMMARY REPORT

**BatchID: 54562**

Sample ID: <b>me0708028-01ams</b>	SampType: <b>ms</b>	TestCode: <b>1311_b</b>	Units: <b>mg/L</b>	Prep Date: <b>8/6/2007 1:47:00 PM</b>	Run ID: <b>SVOA-2_070806A</b>
Client ID: <b>ZZZZZ</b>	Batch ID: <b>54562</b>	TestNo: <b>SW1311/8270</b>		Analysis Date: <b>8/6/2007 7:17:00 PM</b>	SeqNo: <b>1588006</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.2672	0.050	0.5	0	53.4	12.1	93.1	0	0		b
2,4-Dinitrotoluene	0.2622	0.050	0.5	0	52.4	18.7	96.2	0	0		
Pentachlorophenol	0.2882	0.25	0.5	0	57.6	5	135	0	0		
Surr: Nitrobenzene-d5	0.2918	0	0.5	0	58.4	10	121	0	0		
Surr: 2-Fluorobiphenyl	0.2638	0	0.5	0	52.8	5.58	109	0	0		
Surr: Terphenyl-d14	0.3911	0	0.5	0	78.2	10	130	0	0		
Surr: Phenol-d5	0.4335	0	0.75	0	57.8	10	100	0	0		
Surr: 2-Fluorophenol	0.4325	0	0.75	0	57.7	10	84.7	0	0		
Surr: 2,4,6-Tribromophenol	0.5222	0	0.75	0	69.6	10	120	0	0		

Sample ID: <b>me0708028-01amsd</b>	SampType: <b>msd</b>	TestCode: <b>1311_b</b>	Units: <b>mg/L</b>	Prep Date: <b>8/6/2007 1:47:00 PM</b>	Run ID: <b>SVOA-2_070806A</b>
Client ID: <b>ZZZZZ</b>	Batch ID: <b>54562</b>	TestNo: <b>SW1311/8270</b>		Analysis Date: <b>8/6/2007 7:44:00 PM</b>	SeqNo: <b>1588007</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.2804	0.050	0.5	0	56.1	12.1	93.1	0.2672	4.86	39.7	b
2,4-Dinitrotoluene	0.276	0.050	0.5	0	55.2	18.7	96.2	0.2622	5.13	36.5	
Pentachlorophenol	0.3026	0.25	0.5	0	60.5	5	135	0.2882	4.04	29.2	
Surr: Nitrobenzene-d5	0.3154	0	0.5	0	63.1	10	121	0	0	0	
Surr: 2-Fluorobiphenyl	0.2712	0	0.5	0	54.2	5.58	109	0	0	0	
Surr: Terphenyl-d14	0.4161	0	0.5	0	83.2	10	130	0	0	0	
Surr: Phenol-d5	0.4423	0	0.75	0	59	10	100	0	0	0	
Surr: 2-Fluorophenol	0.4592	0	0.75	0	61.2	10	84.7	0	0	0	
Surr: 2,4,6-Tribromophenol	0.5577	0	0.75	0	74.4	10	120	0	0	0	

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected above reporting limit in the Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      b - Analyte detected below reporting limit in the Method Blank  
 H - Analyte was prepared and/or analyzed outside of the analytical method holding time

**CLIENT:** Environmental Quality Management, Inc.  
**Work Order:** ME0708127  
**Project:** USEPA / Plating Engineer

## ANALYTICAL QC SUMMARY REPORT

**BatchID: 54582**

Sample ID: **MB070807-1**    SampType: **MBLK**    TestCode: **6010TC**    Units: **mg/L**    Prep Date: **8/7/2007 5:00:00 AM**    Run ID: **ICP-2\_070807A**  
 Client ID: **ZZZZZ**    Batch ID: **54582**    TestNo: **SW1311/6010**    Analysis Date: **8/7/2007 8:16:00 AM**    SeqNo: **1587745**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.010									
Barium	ND	0.50									
Cadmium	ND	0.0020									
Chromium	0.0027	0.0030									J
Lead	ND	0.0075									
Selenium	0.027	0.030									J
Silver	ND	0.010									

Sample ID: **LCS070807-1**    SampType: **LCS**    TestCode: **6010TC**    Units: **mg/L**    Prep Date: **8/7/2007 5:00:00 AM**    Run ID: **ICP-2\_070807A**  
 Client ID: **ZZZZZ**    Batch ID: **54582**    TestNo: **SW1311/6010**    Analysis Date: **8/7/2007 8:22:00 AM**    SeqNo: **1587746**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.066	0.010	2	0	103	80	120	0	0		
Barium	2.309	0.50	2.2	0	105	80	120	0	0		
Cadmium	0.1941	0.0020	0.2	0	97	80	120	0	0		
Chromium	2.01	0.0030	2	0	101	80	120	0	0		b
Lead	1.931	0.0075	2	0	96.6	80	120	0	0		
Selenium	1.982	0.030	2	0	99.1	80	120	0	0		b
Silver	0.2087	0.010	0.2	0	104	80	120	0	0		

Sample ID: **ME0708127-01AMS**    SampType: **MS**    TestCode: **6010TC**    Units: **mg/L**    Prep Date: **8/7/2007 5:00:00 AM**    Run ID: **ICP-2\_070807A**  
 Client ID: **Debris**    Batch ID: **54582**    TestNo: **SW1311/6010**    Analysis Date: **8/7/2007 8:54:00 AM**    SeqNo: **1587820**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.212	0.010	2	0.0505	108	75	125	0	0		
Barium	2.411	0.50	2.2	0	110	75	125	0	0		
Cadmium	0.1321	0.0020	0.2	0	66	75	125	0	0		S
Chromium	4.167	0.0030	2	2.185	99.1	75	125	0	0		b
Lead	3.165	0.0075	2	1.426	87	75	125	0	0		
Selenium	2.186	0.030	2	0.0739	106	75	125	0	0		b
Silver	0.5669	0.010	0.2	0.3544	106	75	125	0	0		

**Qualifiers:**    ND - Not Detected at the Reporting Limit    S - Spike Recovery outside accepted recovery limits    B - Analyte detected above reporting limit in the Method Blank  
                   J - Analyte detected below quantitation limits    R - RPD outside accepted recovery limits    b - Analyte detected below reporting limit in the Method Blank  
                   H - Analyte was prepared and/or analyzed outside of the analytical method holding time



**CLIENT:** Environmental Quality Management, Inc.  
**Work Order:** ME0708127  
**Project:** USEPA / Plating Engineer

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 54582

Sample ID: ME0708127-01AMSD SampType: MSD TestCode: 6010TC Units: mg/L Prep Date: 8/7/2007 5:00:00 AM Run ID: ICP-2\_070807A  
 Client ID: Debris Batch ID: 54582 TestNo: SW1311/6010 Analysis Date: 8/7/2007 9:00:00 AM SeqNo: 1587821

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.208	0.010	2	0.0505	108	75	125	2.212	0.181	20	
Barium	2.381	0.50	2.2	0	108	75	125	2.411	1.25	20	
Cadmium	0.1246	0.0020	0.2	0	62.3	75	125	0.1321	5.84	20	S
Chromium	4.16	0.0030	2	2.185	98.8	75	125	4.167	0.168	20	b
Lead	3.148	0.0075	2	1.426	86.1	75	125	3.165	0.539	20	
Selenium	2.189	0.030	2	0.0739	106	75	125	2.186	0.137	20	b
Silver	0.5644	0.010	0.2	0.3544	105	75	125	0.5669	0.442	20	

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected above reporting limit in the Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      b - Analyte detected below reporting limit in the Method Blank  
 H - Analyte was prepared and/or analyzed outside of the analytical method holding time

**CLIENT:** Environmental Quality Management, Inc.  
**Work Order:** ME0708127  
**Project:** USEPA / Plating Engineer

## ANALYTICAL QC SUMMARY REPORT

**BatchID: 54588**

Sample ID: <b>MB070807-5</b>	SampType: <b>MBLK</b>	TestCode: <b>1311_HG</b>	Units: <b>mg/L</b>	Prep Date: <b>8/7/2007 5:50:00 AM</b>	Run ID: <b>CVAA_070807A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>54588</b>	TestNo: <b>SW1311/7470</b>		Analysis Date: <b>8/7/2007 8:37:00 AM</b>	SeqNo: <b>1587796</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0010									

Sample ID: <b>LCS070807-5</b>	SampType: <b>LCS</b>	TestCode: <b>1311_HG</b>	Units: <b>mg/L</b>	Prep Date: <b>8/7/2007 5:50:00 AM</b>	Run ID: <b>CVAA_070807A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>54588</b>	TestNo: <b>SW1311/7470</b>		Analysis Date: <b>8/7/2007 8:38:00 AM</b>	SeqNo: <b>1587797</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00176	0.0010	0.002	0	88	80	120	0	0		

Sample ID: <b>ME0708127-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>1311_HG</b>	Units: <b>mg/L</b>	Prep Date: <b>8/7/2007 5:50:00 AM</b>	Run ID: <b>CVAA_070807A</b>						
Client ID: <b>Debris</b>	Batch ID: <b>54588</b>	TestNo: <b>SW1311/7470</b>		Analysis Date: <b>8/7/2007 9:13:00 AM</b>	SeqNo: <b>1587815</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0143	0.0050	0.002	0.01255	87.5	50	200	0	0		

Sample ID: <b>ME0708127-01AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>1311_HG</b>	Units: <b>mg/L</b>	Prep Date: <b>8/7/2007 5:50:00 AM</b>	Run ID: <b>CVAA_070807A</b>						
Client ID: <b>Debris</b>	Batch ID: <b>54588</b>	TestNo: <b>SW1311/7470</b>		Analysis Date: <b>8/7/2007 9:15:00 AM</b>	SeqNo: <b>1587816</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0161	0.0050	0.002	0.01255	178	50	200	0.0143	11.8	20	

<b>Qualifiers:</b> ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits H - Analyte was prepared and/or analyzed outside of the analytical method holding time	S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits	B - Analyte detected above reporting limit in the Method Blank b - Analyte detected below reporting limit in the Method Blank
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**CLIENT:** Environmental Quality Management, Inc.  
**Work Order:** ME0708127  
**Project:** USEPA / Plating Engineer

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R100587

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Sample ID: ME0708155-01ADUP	SampType: DUP	TestCode: PH_S	Units: pH Units	Prep Date:	Run ID: PH-PROBE_070806B
Client ID: ZZZZZ	Batch ID: R100587	TestNo: SW9045C		Analysis Date: 8/6/2007 3:40:00 PM	SeqNo: 1587474

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.15	0.100	0	0	0	0	0	7.44	3.98	20	

---

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected above reporting limit in the Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      b - Analyte detected below reporting limit in the Method Blank  
H - Analyte was prepared and/or analyzed outside of the analytical method holding time



1800 Carillon Blvd  
Cincinnati, OH 45240  
(513) 825-7500

**Environmental Quality Management, Inc.**  
**Chain of Custody Record**

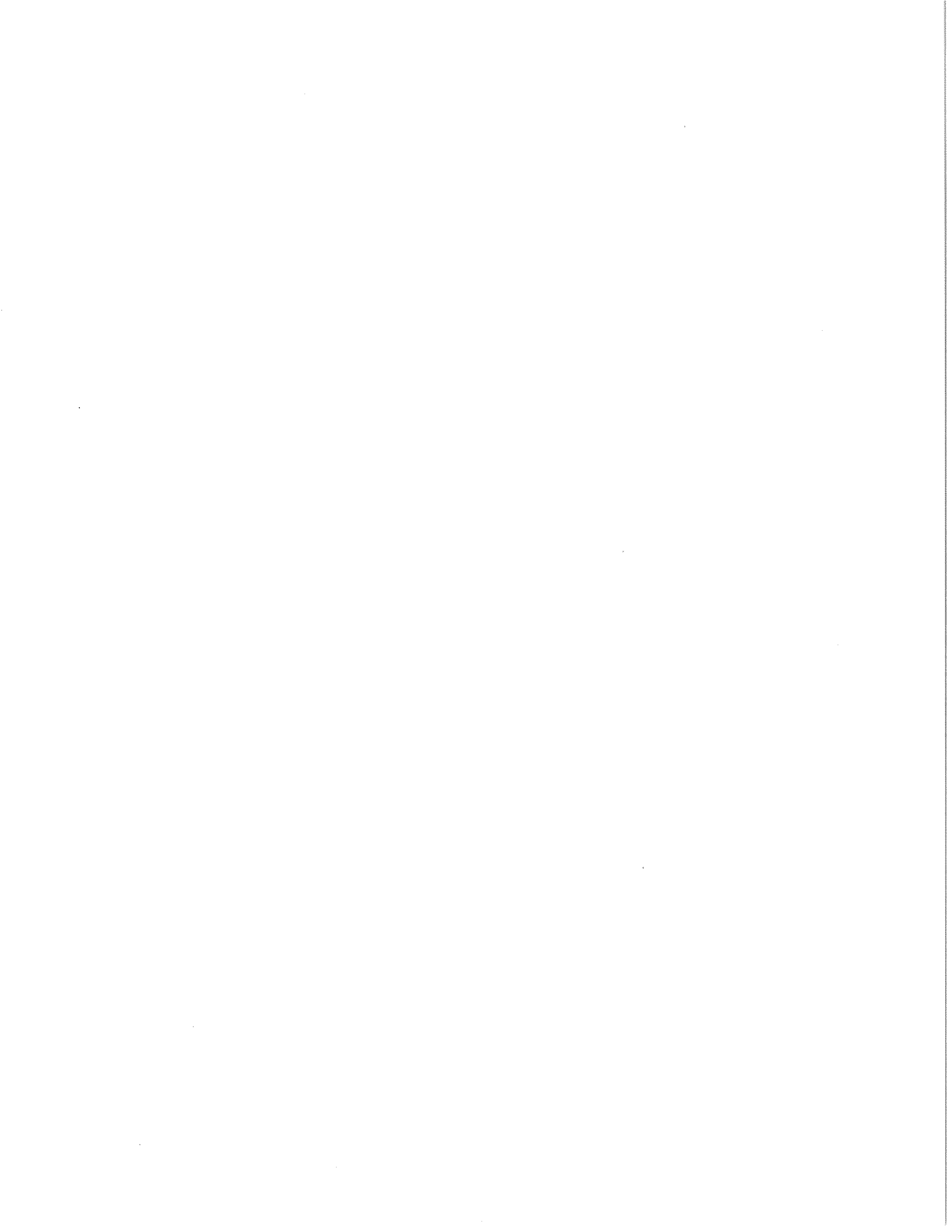
**RUSH**

COC Tracking: **EQ-13347**

Project No. <b>030228.0080</b>		Project Name <b>USEPA/Plating Engineer</b>				TESTS												
Samplers/Affiliation: (Print Name and Sign) <b>Mark Douglas / MDR</b>					Lab P.O. No:	No. of Containers	Temp metal	Temp UoA	Temp SuoA	PH	Reactive CNTS	Total CN						
Sample ID:	Date	Time	Description/Matrix:	Sample Volume / Comments														
<b>Debris</b>	<b>8/2/07</b>	<b>1545</b>	<b>Solid</b>	<b>1L</b>		<b>1</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>						<b>0708127</b>
																		<b>21A</b>
Relinquished by: (Signature) <b>[Signature]</b>		Date	Time	Received by: (Signature)		Date	Time	Ship To: <b>Microbac</b>										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	<b>250 West 84th Drive</b>										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	<b>Merrillville, IN 46410</b>										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Airbill Number: <b>8621 6480 5730</b>										
Reporting/QA Requirements:		Turn Around Time <b>30 day</b> <b>(EXACT DUE DATE): 8-7-07</b>		Report To: <b>Baran Ruski</b> <b>Mark Douglas</b>			Chain of Custody Seal Numbers											

ME0708127 EQM - CINCINNATI  
 USEPA / Plating Engineer  
 Jackie Doan  
 8/7/2007  
 RJM

ATTACHMENT B2  
ACID SOLID DISPOSAL CHARACTERIZATION SAMPLING RESULTS





August 24, 2007

Aaron Roski  
Environmental Quality Management, Inc.  
1800 Carillon Boulevard  
Cincinnati, OH 45240

Work Order No.: ME0708772

RE: Plating Engineering / West Allis, WI

Dear Aaron Roski:

Microbac Laboratories, Inc. received 1 sample on 8/17/2007 7:28:00 PM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,  
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "R. Misiunas", written over the printed name.

Ronald J. Misiunas  
Client Services Manager

Enclosures



**WORK ORDER SAMPLE SUMMARY**

**Date:** *Friday, August 24, 2007*

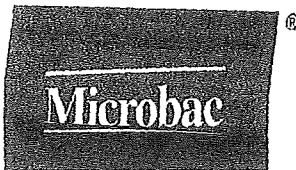
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**CLIENT:** Environmental Quality Management, Inc.  
**Project:** Plating Engineering / West Allis, WI  
**Lab Order:** ME0708772

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
ME0708772-01A	Acid Solid		8/16/2007 5:00:00 PM	8/17/2007





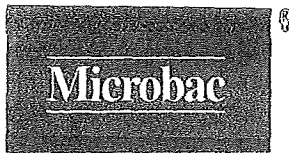
**ANALYTICAL RESULTS**

Date: *Friday, August 24, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Acid Solid  
**Sample Description:**  
**Sample Matrix:** Solid

**Work Order / ID:** ME0708772-01  
**Collection Date:** 08/16/07 17:00  
**Date Received:** 08/17/07 19:28

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
<b>TCLP MERCURY</b>							
Mercury	A	ND	0.0010		mg/L	1	08/20/07 15:07
Method: SW1311/7470A      Prep Date/Time: 08/20/07 08:15      Analyst: AVC							
<b>TCLP METALS</b>							
Arsenic	A	1.1	0.010		mg/L	1	08/21/07 13:34
Barium	A	ND	0.50		mg/L	1	08/21/07 13:34
Cadmium	A	0.057	0.0020		mg/L	1	08/21/07 13:34
Chromium	A	990	0.030		mg/L	10	08/21/07 13:28
Lead	A	10	0.0075		mg/L	1	08/21/07 13:34
Selenium	A	ND	0.030		mg/L	1	08/21/07 13:34
Silver	A	0.026	0.010		mg/L	1	08/21/07 13:34
Method: SW1311/6010B      Prep Date/Time: 08/20/07 07:55      Analyst: AVC							
<b>HEXAVALENT CHROMIUM</b>							
Chromium, Hexavalent	A	ND	18		mg/Kg	50	08/24/07 08:45
Method: SW7196A      Prep Date/Time: 08/23/07 14:10      Analyst: RPL							
<b>CORROSIVITY BY PH</b>							
pH	A	1.9	0.1		pH Units	1	08/20/07 19:40
Method: SW9045C      Prep Date/Time:      Analyst: RJC							



**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

Table with 4 columns of abbreviations and their meanings: NA = Not Analyzed, mg/L = Milligrams per Liter (ppm), mg/Kg = Milligrams per Kilogram (ppm), U = Undetected, J = Analyte concentration detected between RL and MDL (Metals / Organics), B = Detected in the associated Method Blank at a concentration above the routine PQL/RL, b = Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL, D = Surrogate recoveries are not calculated due to sample dilution, ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if listed), E = Value above quantitation range, H = Analyte was prepared and/or analyzed outside of the analytical method holding time, I = Matrix Interference, R = RPD outside accepted recovery limits, S = Spike recovery outside recovery limits, Surr = Surrogate, DF = Dilution Factor, RL = Reporting Limit, ST = Sample Type, MDL = Method Detection Limit, N/A = Not Applicable, ug/L = Micrograms per Liter (ppb), cfu = Colony Forming Unit, ug/Kg = Micrograms per Kilogram (ppb), ng/L = Nanograms per Liter (ppt)

**SAMPLE TYPES**

Table with 2 columns: A = Analyte, I = Internal Standard, S = Surrogate, T = Tentatively Identified Compound (TIC, concentration estimated)

**QC SAMPLE IDENTIFICATIONS**

Table with 4 columns of QC sample identifications: MBLK = Method Blank, DUP = Method Duplicate, LCS = Laboratory Control Sample, MS = Matrix Spike, ICB = Initial Calibration Blank, ICV = Initial Calibration Verification, PDS = Post Digestion Spike, ICSA = Interference Check Standard "A", ICSAB = Interference Check Standard "AB", LCSD = Laboratory Control Sample Duplicate, MSD = Matrix Spike Duplicate, CCB = Continuing Calibration Blank, CCV = Continuing Calibration Verification, SD = Serial Dilution, OPR = Ongoing Precision and Recovery Standard

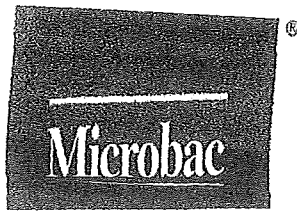
**CERTIFICATIONS**

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

**MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)**

Table listing Microbac locations, service centers, and satellite offices across various states including Baltimore, Camp Hill, Chicago, Corona, Erie, Fayetteville, Hauser, Kentucky, Lexington, Louisville, Paducah, Maryville, Marlborough, Wexford, Cortland, Waverly, New Castle, Pittsburgh, Richmond, South Carolina, South Jersey, Southern Headquaters, Southern Testing, and Venice.



# COOLER INSPECTION

Date: Friday, August 24, 2007

Client Name **Environmental Quality Manage**

Date / Time Received: **8/17/2007 7:28:00 PM**

Work Order Number **ME0708772**

Received by: **SPM**

Checklist completed by **SPM** | **8/17/2007 7:34:39 PM**

Reviewed by **RJM** | **8/20/2007 10:09:52 AM**

Carrier name: Client Delivered

- After-Hour Arrival? Yes  No
- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody included sufficient client identification? Yes  No
- Chain of custody included sufficient sample collector information? Yes  No
- Chain of custody included a sample description? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Chain of custody identified the appropriate matrix? Yes  No
- Chain of custody included date of collection? Yes  No
- Chain of custody included time of collection? Yes  No
- Chain of custody identified the appropriate number of containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Chain of custody identified the appropriate preservatives (if preserved)? Yes  No
- Samples properly preserved? Yes  No

If No, adjusted by? \_\_\_\_\_

Date/Time \_\_\_\_\_

- Chain of custody included the requested analyses? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Samples received on ice? Yes  No

Container/Temp Blank temperatures Cooler Temp 1 1 °C

VOA vials for aqueous samples have zero headspace? No VOA vials submitted  Yes  No

**ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.**

General Comments:

Sample ID	Client Sample ID	Comments
ME0708772-01A	Acid Solid	

ME0708772  
Plating Engineering / West Allis, WI  
Aaron Roski

EQM - CINCINNATI  
8/24/2007  
RJM



1800 Carillon Blvd  
Cincinnati, OH 45240  
(513) 825-7500

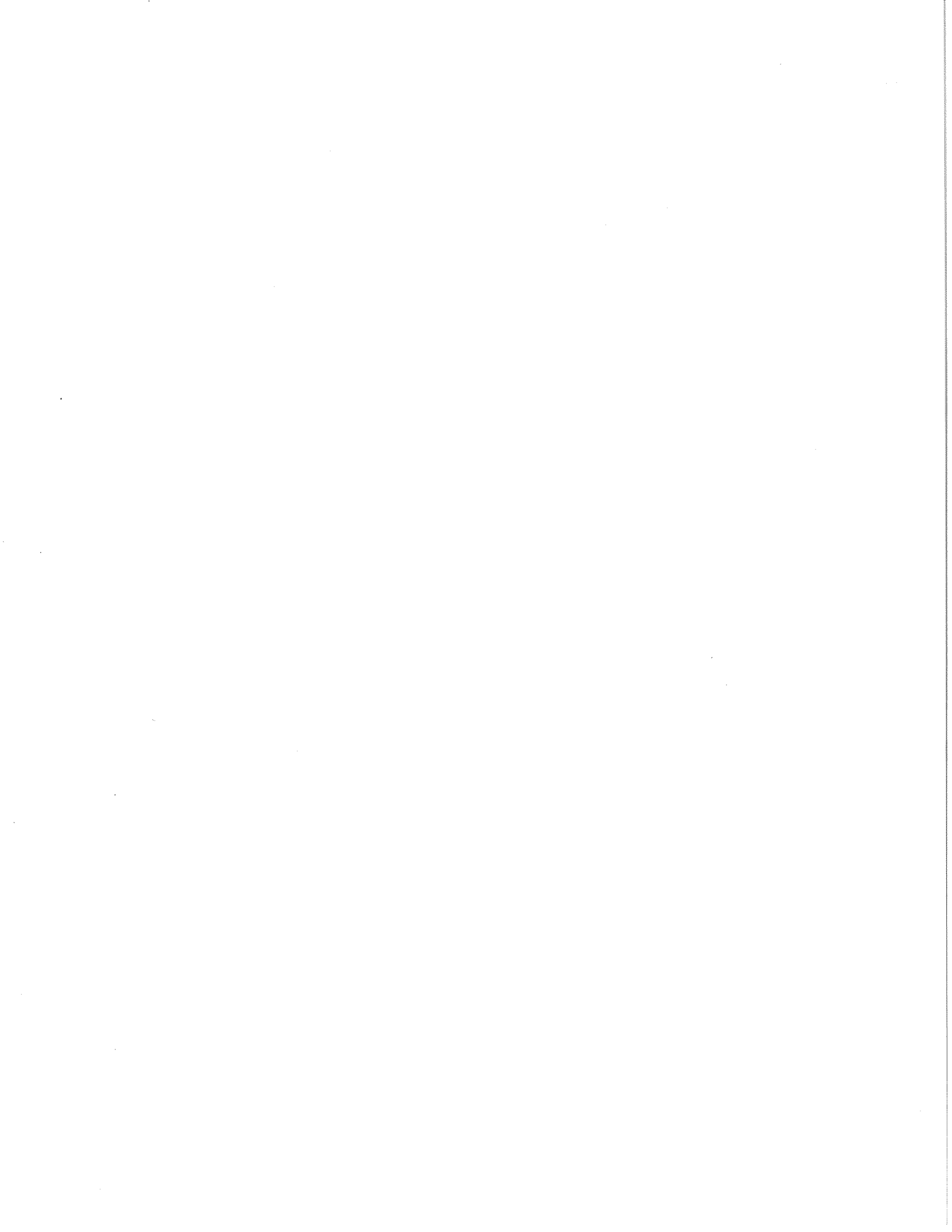
# Environmental Quality Management, Inc. Chain of Custody Record

COC Tracking: **EQ-13348**

Project No.		Project Name					TESTS			
030228.0080		PLATING ENGINEERING		Lab P.O. No:						
Samplers/Affiliation: (Print Name and Sign)			No of Containers							
A. Roski / EQ <i>AurR</i>			1							
Sample ID:	Date	Time	Description/Matrix	Sample Volume / Comments	Temp Metals	pH	Hex Chloride			
Acid Solid	8-16-07	1700	Waste	1Qt	X	X	+	ME0708772 1A		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Ship To: Microbial Drop off sample				
<i>AurR</i>	8-17-07	1130		8-17-07	1130					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Airbill Number 10				
<i>[Signature]</i>			<i>Scott McLeod</i>	8/17/07	19:28					
Reporting/QA Requirements: <i>P.O.</i>	Turn Around Time (EXACT DUE DATE): 8-24-07		Report To: <i>A. Roski</i>			Chain of Custody Seal Numbers				

Distribution: White - Accompanies Shipment   Pink - Project Files   Yellow - Laboratory File

ATTACHMENT B3  
FLAMMABLE SLUDGE, NEUTRAL SOLID, FLAMMABLE LIQUID, BASIC SOLID,  
NEUTRAL LIQUID, BASE LIQUID, CYANIDE LIQUID, CYANIDE SOLID, AND SITE  
SOIL DISPOSAL CHARACTERIZATION RESULTS





August 28, 2007

Aaron Roski  
Environmental Quality Management, Inc.  
1800 Carillon Boulevard  
Cincinnati, OH 45240

Work Order No.: ME0708689

RE: Plating Engineering / West Allis, WI  
Dear Aaron Roski:

Microbac Laboratories, Inc. received 9 samples on 8/16/2007 11:15:00 AM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,  
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "R. Misiunas", written over a faint, illegible stamp or background.

Ronald J. Misiunas  
Client Services Manager

Enclosures



**WORK ORDER SAMPLE SUMMARY**

**Date:** *Tuesday, August 28, 2007*

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**CLIENT:** Environmental Quality Management, Inc.  
**Project:** Plating Engineering / West Allis, WI  
**Lab Order:** ME0708689

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
ME0708689-01A	Flam Sludge		8/15/2007 12:00:00 PM	8/16/2007
ME0708689-02A	Neutral Solid		8/15/2007 11:00:00 AM	8/16/2007
ME0708689-03A	Flam Liquid		8/15/2007 10:00:00 AM	8/16/2007
ME0708689-04A	Basic Solid		8/15/2007 1:00:00 PM	8/16/2007
ME0708689-05A	Neutral Liquid		8/15/2007 2:00:00 PM	8/16/2007
ME0708689-06A	Base Liquid		8/15/2007 3:00:00 PM	8/16/2007
ME0708689-07A	CN Liquid		8/15/2007 9:00:00 AM	8/16/2007
ME0708689-08A	CN Solid		8/15/2007 9:30:00 AM	8/16/2007
ME0708689-09A	Site Soil		8/15/2007 4:30:00 PM	8/16/2007





# ANALYTICAL RESULTS

Date: Tuesday, August 28, 2007

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Flam Sludge  
**Sample Description:**  
**Sample Matrix:** Sludge

**Work Order / ID:** ME0708689-01  
**Collection Date:** 08/15/07 12:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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PCB'S		Method: SW8082		Prep Date/Time: 08/22/07 09:37 Analyst: ALS			
Aroclor 1016	A	ND	0.33		mg/Kg	10	08/23/07 05:27
Aroclor 1221	A	ND	0.33		mg/Kg	10	08/23/07 05:27
Aroclor 1232	A	ND	0.33		mg/Kg	10	08/23/07 05:27
Aroclor 1242	A	ND	0.33		mg/Kg	10	08/23/07 05:27
Aroclor 1248	A	ND	0.33		mg/Kg	10	08/23/07 05:27
Aroclor 1254	A	ND	0.33		mg/Kg	10	08/23/07 05:27
Aroclor 1260	A	ND	0.33		mg/Kg	10	08/23/07 05:27
Aroclor 1262	A	ND	0.33		mg/Kg	10	08/23/07 05:27
Aroclor 1268	A	ND	0.33		mg/Kg	10	08/23/07 05:27
Total PCB's	A	ND	0.33		mg/Kg	10	08/23/07 05:27
Surr: Tetrachloro-m-xylene	S	450	5-165	S	%REC	10	08/23/07 05:27
Surr: Decachlorobiphenyl	S	50.1	5-222		%REC	10	08/23/07 05:27

TCLP MERCURY		Method: SW1311/7470A		Prep Date/Time: 08/20/07 08:15 Analyst: AVC			
Mercury	A	ND	0.0010		mg/L	1	08/20/07 14:55

TCLP METALS		Method: SW1311/6010B		Prep Date/Time: 08/20/07 07:55 Analyst: AVC			
Arsenic	A	ND	0.020		mg/L	1	08/21/07 14:02
Barium	A	ND	1.0		mg/L	1	08/21/07 14:02
Cadmium	A	0.21	0.0040		mg/L	1	08/21/07 14:02
Chromium	A	0.065	0.010		mg/L	1	08/21/07 14:02
Lead	A	0.87	0.015		mg/L	1	08/21/07 14:02
Selenium	A	ND	0.060		mg/L	1	08/21/07 14:02
Silver	A	ND	0.020		mg/L	1	08/21/07 14:02

TCLP SEMI-VOLATILE ORGANICS		Method: SW1311/8270C		Prep Date/Time: 08/20/07 08:21 Analyst: BEM			
1,4-Dichlorobenzene	A	ND	0.050		mg/L	1	08/21/07 02:39
2,4,5-Trichlorophenol	A	ND	0.050		mg/L	1	08/21/07 02:39
2,4,6-Trichlorophenol	A	ND	0.050		mg/L	1	08/21/07 02:39
2,4-Dinitrotoluene	A	ND	0.050		mg/L	1	08/21/07 02:39
2-Methylphenol	A	ND	0.050		mg/L	1	08/21/07 02:39
3/4-Methylphenol	A	ND	0.050		mg/L	1	08/21/07 02:39
Hexachlorobenzene	A	ND	0.050		mg/L	1	08/21/07 02:39
Hexachlorobutadiene	A	ND	0.050		mg/L	1	08/21/07 02:39
Hexachloroethane	A	ND	0.050		mg/L	1	08/21/07 02:39
Nitrobenzene	A	ND	0.050		mg/L	1	08/21/07 02:39
Pentachlorophenol	A	ND	0.25		mg/L	1	08/21/07 02:39
Pyridine	A	ND	0.050		mg/L	1	08/21/07 02:39
Total Cresol	A	ND	0.050		mg/L	1	08/21/07 02:39
Surr: Nitrobenzene-d5	S	53.9	10-121		%REC	1	08/21/07 02:39



**ANALYTICAL RESULTS**

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Flam Sludge  
**Sample Description:** Flam Sludge  
**Sample Matrix:** Sludge  
**Work Order / ID:** ME0708689-01  
**Collection Date:** 08/15/07 12:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TCLP SEMI-VOLATILE ORGANICS** Method: **SW1311/8270C** Prep Date/Time: **08/20/07 08:21** Analyst: **BEM**

Surr: 2-Fluorobiphenyl	S	62.9	5.58-109		%REC	1	08/21/07 02:39
Surr: Terphenyl-d14	S	105	10-130		%REC	1	08/21/07 02:39
Surr: Phenol-d5	S	66.1	10-100		%REC	1	08/21/07 02:39
Surr: 2-Fluorophenol	S	39.6	10-84.7		%REC	1	08/21/07 02:39
Surr: 2,4,6-Tribromophenol	S	104	10-120		%REC	1	08/21/07 02:39

**TCLP VOLATILES** Method: **SW1311/8260B** Prep Date/Time: **08/17/07 16:45** Analyst: **MLT**

Benzene	A		ND	0.050	mg/L	10	08/20/07 11:10
2-Butanone	A	0.35		0.10	mg/L	10	08/20/07 11:10
Carbon tetrachloride	A		ND	0.050	mg/L	10	08/20/07 11:10
Chlorobenzene	A		ND	0.050	mg/L	10	08/20/07 11:10
Chloroform	A	0.095		0.050	mg/L	10	08/20/07 11:10
1,1-Dichloroethene	A		ND	0.050	mg/L	10	08/20/07 11:10
1,2-Dichloroethane	A		ND	0.050	mg/L	10	08/20/07 11:10
1,4-Dichlorobenzene	A		ND	0.050	mg/L	10	08/20/07 11:10
Tetrachloroethene	A	0.11		0.050	mg/L	10	08/20/07 11:10
Trichloroethene	A	680		50	mg/L	10,000	08/21/07 11:40
Vinyl chloride	A		ND	0.050	mg/L	10	08/20/07 11:10
Surr: 4-Bromofluorobenzene	S	94.8	72.4-120		%REC	10	08/20/07 11:10
Surr: Dibromofluoromethane	S	109	80.2-126		%REC	10	08/20/07 11:10
Surr: Toluene-d8	S	89.6	83.9-117		%REC	10	08/20/07 11:10
Surr: 1,2-Dichloroethane-d4	S	111	74.4-132		%REC	10	08/20/07 11:10

**CHLORINE** Method: **D808-00** Prep Date/Time: **08/23/07 11:00** Analyst: **BJH**

Chlorine by Bomb (Total Halogens)	A	300000		200	mg/Kg	1	08/23/07 13:00
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**IGNITABILITY (OPEN CUP FLASHPOINT)** Method: **D92-90 MOD** Prep Date/Time: Analyst: **ALL**

Ignitability	A	120		30	°F	1	08/30/07 00:00
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**ANALYTICAL RESULTS**

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Neutral Solid  
**Sample Description:**  
**Sample Matrix:** Solid

**Work Order / ID:** ME0708689-02  
**Collection Date:** 08/15/07 11:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TCLP MERCURY** Method: **SW1311/7470A** Prep Date/Time: **08/20/07 08:15** Analyst: **AVC**  
 Mercury A **0.0071** 0.0010 mg/L 1 08/20/07 14:56

**TCLP METALS** Method: **SW1311/6010B** Prep Date/Time: **08/20/07 07:55** Analyst: **AVC**

Arsenic	A	<b>0.034</b>	0.010		mg/L	1	08/21/07 14:19
Barium	A	<b>ND</b>	0.50		mg/L	1	08/21/07 14:19
Cadmium	A	<b>0.032</b>	0.0020		mg/L	1	08/21/07 14:19
Chromium	A	<b>0.78</b>	0.0050		mg/L	1	08/21/07 14:19
Lead	A	<b>3.7</b>	0.0075		mg/L	1	08/21/07 14:19
Selenium	A	<b>0.060</b>	0.030		mg/L	1	08/21/07 14:19
Silver	A	<b>ND</b>	0.010		mg/L	1	08/21/07 14:19

**TCLP SEMI-VOLATILE ORGANICS** Method: **SW1311/8270C** Prep Date/Time: **08/20/07 08:21** Analyst: **BEM**

1,4-Dichlorobenzene	A	<b>ND</b>	0.050		mg/L	1	08/21/07 03:03
2,4,5-Trichlorophenol	A	<b>ND</b>	0.050		mg/L	1	08/21/07 03:03
2,4,6-Trichlorophenol	A	<b>ND</b>	0.050		mg/L	1	08/21/07 03:03
2,4-Dinitrotoluene	A	<b>ND</b>	0.050		mg/L	1	08/21/07 03:03
2-Methylphenol	A	<b>0.30</b>	0.050		mg/L	1	08/21/07 03:03
3/4-Methylphenol	A	<b>0.49</b>	0.050		mg/L	1	08/21/07 03:03
Hexachlorobenzene	A	<b>ND</b>	0.050		mg/L	1	08/21/07 03:03
Hexachlorobutadiene	A	<b>ND</b>	0.050		mg/L	1	08/21/07 03:03
Hexachloroethane	A	<b>ND</b>	0.050		mg/L	1	08/21/07 03:03
Nitrobenzene	A	<b>ND</b>	0.050		mg/L	1	08/21/07 03:03
Pentachlorophenol	A	<b>ND</b>	0.25		mg/L	1	08/21/07 03:03
Pyridine	A	<b>ND</b>	0.050		mg/L	1	08/21/07 03:03
Total Cresol	A	<b>0.79</b>	0.050		mg/L	1	08/21/07 03:03
Surr: Nitrobenzene-d5	S	85.6	10-121		%REC	1	08/21/07 03:03
Surr: 2-Fluorobiphenyl	S	87.6	5.58-109		%REC	1	08/21/07 03:03
Surr: Terphenyl-d14	S	110	10-130		%REC	1	08/21/07 03:03
Surr: Phenol-d5	S	0	10-100	SI	%REC	1	08/21/07 03:03
Surr: 2-Fluorophenol	S	80.4	10-84.7		%REC	1	08/21/07 03:03
Surr: 2,4,6-Tribromophenol	S	123	10-120	SI	%REC	1	08/21/07 03:03

**TCLP VOLATILES** Method: **SW1311/8260B** Prep Date/Time: **08/17/07 16:45** Analyst: **MAK**

Benzene	A	<b>ND</b>	0.050		mg/L	10	08/21/07 12:12
2-Butanone	A	<b>0.10</b>	0.10		mg/L	10	08/21/07 12:12
Carbon tetrachloride	A	<b>ND</b>	0.050		mg/L	10	08/21/07 12:12
Chlorobenzene	A	<b>ND</b>	0.050		mg/L	10	08/21/07 12:12
Chloroform	A	<b>ND</b>	0.050		mg/L	10	08/21/07 12:12
1,1-Dichloroethene	A	<b>ND</b>	0.050		mg/L	10	08/21/07 12:12
1,2-Dichloroethane	A	<b>ND</b>	0.050		mg/L	10	08/21/07 12:12



**ANALYTICAL RESULTS**

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Neutral Solid  
**Sample Description:**  
**Sample Matrix:** Solid

**Work Order / ID:** ME0708689-02  
**Collection Date:** 08/15/07 11:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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TCLP VOLATILES		Method: SW1311/8260B	Prep Date/Time: 08/17/07 16:45		Analyst: MAK		
1,4-Dichlorobenzene	A	ND	0.050		mg/L	10	08/21/07 12:12
Tetrachloroethene	A	ND	0.050		mg/L	10	08/21/07 12:12
Trichloroethene	A	0.70	0.050		mg/L	10	08/21/07 12:12
Vinyl chloride	A	ND	0.050		mg/L	10	08/21/07 12:12
Surr: 4-Bromofluorobenzene	S	95.1	72.4-120		%REC	10	08/21/07 12:12
Surr: Dibromofluoromethane	S	109	80.2-126		%REC	10	08/21/07 12:12
Surr: Toluene-d8	S	96.5	83.9-117		%REC	10	08/21/07 12:12
Surr: 1,2-Dichloroethane-d4	S	116	74.4-132		%REC	10	08/21/07 12:12

TOTAL CYANIDE		Method: 9012B	Prep Date/Time: 08/23/07 08:00		Analyst: RPL		
Cyanide, Total	A	5400	130		mg/Kg	100	08/23/07 12:49

IGNITABILITY (OPEN CUP FLASHPOI		Method: D92-90 MOD	Prep Date/Time:		Analyst: ALL		
Ignitability	A	>170	30		°F	1	08/30/07 00:00

CORROSIVITY BY PH		Method: SW9045C	Prep Date/Time:		Analyst: RJC		
pH	A	4.9	0.1		pH Units	1	08/20/07 19:40

CYANIDE, REACTIVE		Method: SW7.3.3.2_R3	Prep Date/Time: 08/21/07 11:00		Analyst: RPL		
Reactive Cyanide	A	ND	18		mg/Kg	1	08/22/07 16:47

SULFIDE, REACTIVE		Method: SW7.3.4.2_R3	Prep Date/Time: 08/21/07 11:00		Analyst: SMA		
Reactive Sulfide	A	ND	9.2		mg/Kg	1	08/22/07 14:30

TOTAL SULFIDE		Method: SW9030B MOD	Prep Date/Time: 08/21/07 13:40		Analyst: SMA		
Sulfide	A	1400	120		mg/Kg	10	08/23/07 10:10

# ANALYTICAL RESULTS

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Flam Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid

**Work Order / ID:** ME0708689-03  
**Collection Date:** 08/15/07 10:00  
**Date Received:** 08/16/07 11:15

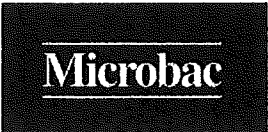
Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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PCBS IN OIL		Method: SW8082	Prep Date/Time: 08/24/07 00:00		Analyst: ALS		
Aroclor 1016	A	ND	1.0	mg/Kg	1	08/24/07 12:32	
Aroclor 1221	A	ND	1.0	mg/Kg	1	08/24/07 12:32	
Aroclor 1232	A	ND	1.0	mg/Kg	1	08/24/07 12:32	
Aroclor 1242	A	ND	1.0	mg/Kg	1	08/24/07 12:32	
Aroclor 1248	A	ND	1.0	mg/Kg	1	08/24/07 12:32	
Aroclor 1254	A	ND	1.0	mg/Kg	1	08/24/07 12:32	
Aroclor 1260	A	ND	1.0	mg/Kg	1	08/24/07 12:32	
Aroclor 1262	A	ND	1.0	mg/Kg	1	08/24/07 12:32	
Aroclor 1268	A	ND	1.0	mg/Kg	1	08/24/07 12:32	
Total PCB's	A	ND	1.0	mg/Kg	1	08/24/07 12:32	
<i>Surr: Tetrachloro-m-xylene</i>	S	15.0	5-163	%REC	1	08/24/07 12:32	
<i>Surr: Decachlorobiphenyl</i>	S	55.0	19.8-152	%REC	1	08/24/07 12:32	

TOTAL METALS		Method: SW6010B	Prep Date/Time: 08/17/07 07:00		Analyst: AVC		
Arsenic	A	ND	0.25	mg/Kg	1	08/20/07 18:27	
Barium	A	450	0.050	mg/Kg	1	08/20/07 18:27	
Cadmium	A	13	0.050	mg/Kg	1	08/20/07 18:27	
Chromium	A	ND	0.075	mg/Kg	1	08/20/07 18:27	
Lead	A	5800	0.19	mg/Kg	1	08/20/07 18:27	
Selenium	A	ND	0.75	mg/Kg	1	08/20/07 18:27	
Silver	A	ND	0.25	mg/Kg	1	08/20/07 18:27	

TOTAL METALS		Method: SW7471A	Prep Date/Time: 08/20/07 11:10		Analyst: SAA		
Mercury	A	ND	0.012	mg/Kg	1	08/22/07 14:58	

SEMIVOLATILE ORGANICS		Method: SW8270C	Prep Date/Time: 08/22/07 20:05		Analyst: BEM		
1,2-Diphenyl-hydrazine	A	ND	200	mg/Kg	20	08/22/07 22:30	
Acetophenone	A	ND	200	mg/Kg	20	08/22/07 22:30	
Carbazole	A	ND	200	mg/Kg	20	08/22/07 22:30	
N-Nitrosodimethylamine	A	ND	200	mg/Kg	20	08/22/07 22:30	
Pyridine	A	ND	200	mg/Kg	20	08/22/07 22:30	
Acenaphthene	A	ND	200	mg/Kg	20	08/22/07 22:30	
Acenaphthylene	A	ND	200	mg/Kg	20	08/22/07 22:30	
Aniline	A	ND	200	mg/Kg	20	08/22/07 22:30	
Anthracene	A	ND	200	mg/Kg	20	08/22/07 22:30	
Benzidine	A	ND	1000	mg/Kg	20	08/22/07 22:30	
Benzo[a]anthracene	A	ND	200	mg/Kg	20	08/22/07 22:30	
Benzo[a]pyrene	A	ND	200	mg/Kg	20	08/22/07 22:30	
Benzo[b]fluoranthene	A	ND	200	mg/Kg	20	08/22/07 22:30	
Benzo[g,h,i]perylene	A	ND	200	mg/Kg	20	08/22/07 22:30	



**ANALYTICAL RESULTS**

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Flam Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid

**Work Order / ID:** ME0708689-03  
**Collection Date:** 08/15/07 10:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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SEMIVOLATILE ORGANICS	Method:	SW8270C	Prep Date/Time:	08/22/07 20:05	Analyst:	BEM
Benzo[k]fluoranthene	A	ND	200	mg/Kg	20	08/22/07 22:30
Benzoic acid	A	ND	1000	mg/Kg	20	08/22/07 22:30
Benzyl alcohol	A	ND	400	mg/Kg	20	08/22/07 22:30
Butyl benzyl phthalate	A	ND	200	mg/Kg	20	08/22/07 22:30
4-Bromophenyl phenyl ether	A	ND	200	mg/Kg	20	08/22/07 22:30
Di-n-butyl phthalate	A	ND	200	mg/Kg	20	08/22/07 22:30
4-Chloro-3-methylphenol	A	ND	400	mg/Kg	20	08/22/07 22:30
4-Chloroaniline	A	ND	400	mg/Kg	20	08/22/07 22:30
Bis(2-chloroethoxy)methane	A	ND	200	mg/Kg	20	08/22/07 22:30
Bis(2-chloroethyl)ether	A	ND	200	mg/Kg	20	08/22/07 22:30
Bis(2-chloroisopropyl)ether	A	ND	200	mg/Kg	20	08/22/07 22:30
2-Chloronaphthalene	A	ND	200	mg/Kg	20	08/22/07 22:30
2-Chlorophenol	A	ND	200	mg/Kg	20	08/22/07 22:30
4-Chlorophenyl phenyl ether	A	ND	200	mg/Kg	20	08/22/07 22:30
Chrysene	A	ND	200	mg/Kg	20	08/22/07 22:30
Dibenz[a,h]anthracene	A	ND	200	mg/Kg	20	08/22/07 22:30
Dibenzofuran	A	ND	200	mg/Kg	20	08/22/07 22:30
1,3-Dichlorobenzene	A	ND	200	mg/Kg	20	08/22/07 22:30
1,4-Dichlorobenzene	A	ND	200	mg/Kg	20	08/22/07 22:30
1,2-Dichlorobenzene	A	ND	200	mg/Kg	20	08/22/07 22:30
3,3'-Dichlorobenzidine	A	ND	1000	mg/Kg	20	08/22/07 22:30
2,6-Dichlorophenol	A	ND	200	mg/Kg	20	08/22/07 22:30
2,4-Dichlorophenol	A	ND	200	mg/Kg	20	08/22/07 22:30
Diethyl phthalate	A	ND	200	mg/Kg	20	08/22/07 22:30
Dimethyl phthalate	A	ND	200	mg/Kg	20	08/22/07 22:30
2,4-Dimethylphenol	A	ND	200	mg/Kg	20	08/22/07 22:30
4,6-Dinitro-2-methylphenol	A	ND	1000	mg/Kg	20	08/22/07 22:30
2,4-Dinitrophenol	A	ND	1000	mg/Kg	20	08/22/07 22:30
2,6-Dinitrotoluene	A	ND	200	mg/Kg	20	08/22/07 22:30
2,4-Dinitrotoluene	A	ND	200	mg/Kg	20	08/22/07 22:30
Bis(2-ethylhexyl)phthalate	A	ND	200	mg/Kg	20	08/22/07 22:30
Fluoranthene	A	ND	200	mg/Kg	20	08/22/07 22:30
Fluorene	A	ND	200	mg/Kg	20	08/22/07 22:30
Hexachlorobenzene	A	ND	200	mg/Kg	20	08/22/07 22:30
Hexachlorobutadiene	A	ND	200	mg/Kg	20	08/22/07 22:30
Hexachlorocyclopentadiene	A	ND	200	mg/Kg	20	08/22/07 22:30
Hexachloroethane	A	ND	200	mg/Kg	20	08/22/07 22:30
Indeno[1,2,3cd]pyrene	A	ND	200	mg/Kg	20	08/22/07 22:30
Isophorone	A	ND	200	mg/Kg	20	08/22/07 22:30
2-Methylnaphthalene	A	550	200	mg/Kg	20	08/22/07 22:30
3/4-Methylphenol	A	ND	200	mg/Kg	20	08/22/07 22:30



# ANALYTICAL RESULTS

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Flam Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid

**Work Order / ID:** ME0708689-03  
**Collection Date:** 08/15/07 10:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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## SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 08/22/07 20:05 Analyst: BEM

2-Methylphenol	A	ND	200		mg/Kg	20	08/22/07 22:30
Naphthalene	A	2300	200		mg/Kg	20	08/22/07 22:30
4-Nitroaniline	A	ND	1000		mg/Kg	20	08/22/07 22:30
2-Nitroaniline	A	ND	1000		mg/Kg	20	08/22/07 22:30
3-Nitroaniline	A	ND	1000		mg/Kg	20	08/22/07 22:30
Nitrobenzene	A	ND	200		mg/Kg	20	08/22/07 22:30
4-Nitrophenol	A	ND	1000		mg/Kg	20	08/22/07 22:30
2-Nitrophenol	A	ND	200		mg/Kg	20	08/22/07 22:30
N-Nitrosodi-n-propylamine	A	ND	200		mg/Kg	20	08/22/07 22:30
N-Nitrosodiphenylamine	A	ND	200		mg/Kg	20	08/22/07 22:30
Di-n-octyl phthalate	A	6400	200		mg/Kg	20	08/22/07 22:30
Pentachlorophenol	A	ND	1000		mg/Kg	20	08/22/07 22:30
Phenanthrene	A	ND	200		mg/Kg	20	08/22/07 22:30
Phenol	A	ND	200		mg/Kg	20	08/22/07 22:30
1,2,4-Trichlorobenzene	A	ND	200		mg/Kg	20	08/22/07 22:30
2,4,5-Trichlorophenol	A	ND	1000		mg/Kg	20	08/22/07 22:30
2,4,6-Trichlorophenol	A	ND	200		mg/Kg	20	08/22/07 22:30
Pyrene	A	620	200		mg/Kg	20	08/22/07 22:30
Total Cresol	A	ND	200		mg/Kg	20	08/22/07 22:30
Surr: Nitrobenzene-d5	S	93.2	32-181		%REC	20	08/22/07 22:30
Surr: 2-Fluorobiphenyl	S	89.1	22.5-177		%REC	20	08/22/07 22:30
Surr: Terphenyl-d14	S	117	16.2-198		%REC	20	08/22/07 22:30
Surr: Phenol-d5	S	91.2	22.7-183		%REC	20	08/22/07 22:30
Surr: 2-Fluorophenol	S	91.6	32.9-177		%REC	20	08/22/07 22:30
Surr: 2,4,6-Tribromophenol	S	84.0	13.3-196		%REC	20	08/22/07 22:30

## VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: MLT

Trichlorofluoromethane	A	ND	10		mg/Kg	1,000	08/24/07 13:01
Acetone	A	ND	50		mg/Kg	1,000	08/24/07 13:01
Acrolein	A	ND	100		mg/Kg	1,000	08/24/07 13:01
Acrylonitrile	A	ND	100		mg/Kg	1,000	08/24/07 13:01
Benzene	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
Bromodichloromethane	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
Bromoform	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
Bromomethane	A	ND	10		mg/Kg	1,000	08/24/07 13:01
2-Butanone	A	ND	10		mg/Kg	1,000	08/24/07 13:01
Carbon Disulfide	A	ND	10		mg/Kg	1,000	08/24/07 13:01
Carbon tetrachloride	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
Chlorobenzene	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
Chloroethane	A	ND	10		mg/Kg	1,000	08/24/07 13:01





**ANALYTICAL RESULTS**

Date: Tuesday, August 28, 2007

<b>Client:</b>	Environmental Quality Management, Inc.	<b>Work Order / ID:</b>	ME0708689-03
<b>Client Project:</b>	Plating Engineering / West Allis, WI	<b>Collection Date:</b>	08/15/07 10:00
<b>Client Sample ID:</b>	Flam Liquid	<b>Date Received:</b>	08/16/07 11:15
<b>Sample Description:</b>			
<b>Sample Matrix:</b>	Liquid		

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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<b>VOLATILE ORGANICS</b>	Method: <b>SW8260B</b>		Prep Date/Time:		Analyst: <b>MLT</b>		
Chloroform	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
Chloromethane	A	ND	10		mg/Kg	1,000	08/24/07 13:01
Dibromochloromethane	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
1,1-Dichloroethane	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
1,2-Dichloroethane	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
1,1-Dichloroethene	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
cis-1,2-Dichloroethene	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
trans-1,2-Dichloroethene	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
1,2-Dichloropropane	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
cis-1,3-Dichloropropene	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
trans-1,3-Dichloropropene	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
Ethylbenzene	A	90	5.0		mg/Kg	1,000	08/24/07 13:01
2-Hexanone	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
4-Methyl-2-Pentanone	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
Methyl-t-Butyl Ether	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
Methylene chloride	A	84	10		mg/Kg	1,000	08/24/07 13:01
Styrene	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
1,1,1,2-Tetrachloroethane	A	ND	10		mg/Kg	1,000	08/24/07 13:01
1,1,2,2-Tetrachloroethane	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
Tetrachloroethene	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
Toluene	A	51	5.0		mg/Kg	1,000	08/24/07 13:01
1,1,1-Trichloroethane	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
1,1,2-Trichloroethane	A	ND	5.0		mg/Kg	1,000	08/24/07 13:01
Trichloroethene	A	540	50		mg/Kg	10,000	08/24/07 15:02
Vinyl Acetate	A	ND	10		mg/Kg	1,000	08/24/07 13:01
Vinyl chloride	A	ND	10		mg/Kg	1,000	08/24/07 13:01
m,p-Xylene	A	340	50		mg/Kg	10,000	08/24/07 15:02
o-Xylene	A	220	50		mg/Kg	10,000	08/24/07 15:02
Total Xylenes	A	560	50		mg/Kg	10,000	08/24/07 15:02
Surr: 4-Bromofluorobenzene	S	103	58.6-119		%REC	1,000	08/24/07 15:02
Surr: Dibromofluoromethane	S	99.7	70.8-132		%REC	1,000	08/24/07 13:01
Surr: 1,2-Dichloroethane-d4	S	91.7	67.9-142		%REC	1,000	08/24/07 13:01
Surr: Toluene-d8	S	101	72.7-141		%REC	1,000	08/24/07 13:01

<b>HEAT CONTENT IN BTU</b>	Method: <b>D240</b>	Prep Date/Time:		Analyst: <b>BJH</b>		
BTU	A	18800	2300	BTU/lb	1	08/23/07 10:30

<b>TOTAL HALIDES</b>	Method: <b>D808-00</b>	Prep Date/Time: <b>08/23/07 11:00</b>		Analyst: <b>BJH</b>		
Chlorine by Bomb (Total Halogens)	A	6300	100	mg/Kg	1	08/23/07 13:00

<b>IGNITABILITY (CLOSED CUP FLASHP)</b>	Method: <b>SW1010</b>	Prep Date/Time:		Analyst: <b>ALL</b>	
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**ANALYTICAL RESULTS**

**Date:** *Tuesday, August 28, 2007*

<b>Client:</b>	Environmental Quality Management, Inc.	<b>Work Order / ID:</b>	ME0708689-03
<b>Client Project:</b>	Plating Engineering / West Allis, WI	<b>Collection Date:</b>	08/15/07 10:00
<b>Client Sample ID:</b>	Flam Liquid	<b>Date Received:</b>	08/16/07 11:15
<b>Sample Description:</b>			
<b>Sample Matrix:</b>	Liquid		

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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<b>IGNITABILITY (CLOSED CUP FLASHP Method: SW1010</b>		Prep Date/Time:		Analyst: ALL			
Ignitability	A	>170	30	°F	1		08/30/07 00:00



**ANALYTICAL RESULTS**

Date: *Tuesday, August 28, 2007*

<b>Client:</b>	Environmental Quality Management, Inc.	<b>Work Order / ID:</b>	ME0708689-04
<b>Client Project:</b>	Plating Engineering / West Allis, WI	<b>Collection Date:</b>	08/15/07 13:00
<b>Client Sample ID:</b>	Basic Solid	<b>Date Received:</b>	08/16/07 11:15
<b>Sample Description:</b>			
<b>Sample Matrix:</b>	Solid		

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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<b>TOTAL CYANIDE</b>	Method: 9012B					Prep Date/Time: 08/23/07 08:00	Analyst: RPL
Cyanide, Total	A	16			1.7 mg/Kg	1	08/23/07 13:40
<b>CORROSIVITY BY PH</b>	Method: SW9045C					Prep Date/Time:	Analyst: RJC
pH	A	13.3			0.1 pH Units	1	08/20/07 19:40
<b>TOTAL SULFIDE</b>	Method: SW9030B MOD					Prep Date/Time: 08/21/07 13:40	Analyst: SMA
Sulfide	A	ND			9.6 mg/Kg	1	08/23/07 10:10



**ANALYTICAL RESULTS**

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Neutral Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid

**Work Order / ID:** ME0708689-05  
**Collection Date:** 08/15/07 14:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TOTAL METALS** Method: **SW6010B** Prep Date/Time: **08/17/07 07:20** Analyst: **AVC**

Arsenic	A	ND	0.50		mg/L	10	08/17/07 14:40
Barium	A	0.31	0.10		mg/L	10	08/17/07 14:40
Cadmium	A	0.75	0.10		mg/L	10	08/17/07 14:40
Chromium	A	8.2	0.15		mg/L	10	08/17/07 14:40
Lead	A	21	0.38		mg/L	10	08/17/07 14:40
Selenium	A	ND	1.5		mg/L	10	08/17/07 14:40
Silver	A	1.1	0.50		mg/L	10	08/17/07 14:40

**TOTAL METALS** Method: **SW7470A** Prep Date/Time: **08/20/07 07:15** Analyst: **AVC**

Mercury	A	ND	0.00050		mg/L	1	08/20/07 14:29
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**SEMIVOLATILE ORGANICS** Method: **SW8270C** Prep Date/Time: **08/21/07 13:31** Analyst: **BEM**

4-Bromophenyl phenyl ether	A	ND	0.66		mg/L	2	08/21/07 21:50
Bis(2-ethylhexyl)phthalate	A	5.1	0.66		mg/L	2	08/21/07 21:50
Acenaphthene	A	ND	0.66		mg/L	2	08/21/07 21:50
Acenaphthylene	A	ND	0.66		mg/L	2	08/21/07 21:50
Acetophenone	A	ND	0.66		mg/L	2	08/21/07 21:50
Aniline	A	ND	0.66		mg/L	2	08/21/07 21:50
Anthracene	A	ND	0.66		mg/L	2	08/21/07 21:50
Benzidine	A	ND	3.3		mg/L	2	08/21/07 21:50
Benzo[a]anthracene	A	ND	0.66		mg/L	2	08/21/07 21:50
Benzo[a]pyrene	A	ND	0.66		mg/L	2	08/21/07 21:50
Benzo[b]fluoranthene	A	ND	0.66		mg/L	2	08/21/07 21:50
Benzo[g,h,i]perylene	A	ND	0.66		mg/L	2	08/21/07 21:50
Benzo[k]fluoranthene	A	ND	0.66		mg/L	2	08/21/07 21:50
Benzoic acid	A	48	16		mg/L	10	08/21/07 23:30
Benzyl alcohol	A	ND	1.3		mg/L	2	08/21/07 21:50
Bis(2-chloroethoxy)methane	A	ND	0.66		mg/L	2	08/21/07 21:50
Bis(2-chloroethyl)ether	A	ND	0.66		mg/L	2	08/21/07 21:50
Bis(2-chloroisopropyl)ether	A	ND	0.66		mg/L	2	08/21/07 21:50
Butyl benzyl phthalate	A	ND	0.66		mg/L	2	08/21/07 21:50
Carbazole	A	ND	0.66		mg/L	2	08/21/07 21:50
4-Chloro-3-methylphenol	A	ND	1.3		mg/L	2	08/21/07 21:50
4-Chloroaniline	A	ND	1.3		mg/L	2	08/21/07 21:50
2-Chloronaphthalene	A	ND	0.66		mg/L	2	08/21/07 21:50
2-Chlorophenol	A	ND	0.66		mg/L	2	08/21/07 21:50
4-Chlorophenyl phenyl ether	A	ND	0.66		mg/L	2	08/21/07 21:50
Chrysene	A	ND	0.66		mg/L	2	08/21/07 21:50
Dibenz[a,h]anthracene	A	ND	0.66		mg/L	2	08/21/07 21:50
Dibenzofuran	A	ND	0.66		mg/L	2	08/21/07 21:50

# ANALYTICAL RESULTS

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Neutral Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid

**Work Order / ID:** ME0708689-05  
**Collection Date:** 08/15/07 14:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
<b>SEMIVOLATILE ORGANICS</b>							
	Method: SW8270C		Prep Date/Time: 08/21/07 13:31 Analyst: BEM				
1,2-Dichlorobenzene	A	ND	0.66		mg/L	2	08/21/07 21:50
1,3-Dichlorobenzene	A	ND	0.66		mg/L	2	08/21/07 21:50
1,4-Dichlorobenzene	A	ND	0.66		mg/L	2	08/21/07 21:50
3,3'-Dichlorobenzidine	A	ND	3.3		mg/L	2	08/21/07 21:50
2,4-Dichlorophenol	A	ND	0.66		mg/L	2	08/21/07 21:50
2,6-Dichlorophenol	A	ND	0.66		mg/L	2	08/21/07 21:50
Diethyl phthalate	A	ND	0.66		mg/L	2	08/21/07 21:50
Dimethyl phthalate	A	ND	0.66		mg/L	2	08/21/07 21:50
2,4-Dimethylphenol	A	ND	0.66		mg/L	2	08/21/07 21:50
Di-n-butyl phthalate	A	ND	0.66		mg/L	2	08/21/07 21:50
Di-n-octyl phthalate	A	ND	0.66		mg/L	2	08/21/07 21:50
4,6-Dinitro-2-methylphenol	A	ND	3.3		mg/L	2	08/21/07 21:50
2,4-Dinitrophenol	A	ND	3.3		mg/L	2	08/21/07 21:50
2,4-Dinitrotoluene	A	ND	0.66		mg/L	2	08/21/07 21:50
2,6-Dinitrotoluene	A	ND	0.66		mg/L	2	08/21/07 21:50
1,2-Diphenyl-hydrazine	A	ND	0.66		mg/L	2	08/21/07 21:50
Fluoranthene	A	ND	0.66		mg/L	2	08/21/07 21:50
Fluorene	A	ND	0.66		mg/L	2	08/21/07 21:50
Hexachlorobenzene	A	ND	0.66		mg/L	2	08/21/07 21:50
Hexachlorobutadiene	A	ND	0.66		mg/L	2	08/21/07 21:50
Hexachlorocyclopentadiene	A	ND	0.66		mg/L	2	08/21/07 21:50
Hexachloroethane	A	ND	0.66		mg/L	2	08/21/07 21:50
Indeno[1,2,3cd]pyrene	A	ND	0.66		mg/L	2	08/21/07 21:50
Isophorone	A	ND	0.66		mg/L	2	08/21/07 21:50
2-Methylnaphthalene	A	ND	0.66		mg/L	2	08/21/07 21:50
2-Methylphenol	A	ND	0.66		mg/L	2	08/21/07 21:50
3/4-Methylphenol	A	ND	0.66		mg/L	2	08/21/07 21:50
2-Nitroaniline	A	ND	3.3		mg/L	2	08/21/07 21:50
3-Nitroaniline	A	ND	3.3		mg/L	2	08/21/07 21:50
4-Nitroaniline	A	ND	3.3		mg/L	2	08/21/07 21:50
2-Nitrophenol	A	ND	0.66		mg/L	2	08/21/07 21:50
4-Nitrophenol	A	ND	3.3		mg/L	2	08/21/07 21:50
N-Nitrosodi-n-propylamine	A	ND	0.66		mg/L	2	08/21/07 21:50
N-Nitrosodimethylamine	A	ND	0.66		mg/L	2	08/21/07 21:50
N-Nitrosodiphenylamine	A	ND	0.66		mg/L	2	08/21/07 21:50
Naphthalene	A	ND	0.66		mg/L	2	08/21/07 21:50
Nitrobenzene	A	ND	0.66		mg/L	2	08/21/07 21:50
Pentachlorophenol	A	ND	3.3		mg/L	2	08/21/07 21:50
Phenanthrene	A	ND	0.66		mg/L	2	08/21/07 21:50
Phenol	A	ND	0.66		mg/L	2	08/21/07 21:50
Pyrene	A	ND	0.66		mg/L	2	08/21/07 21:50

**ANALYTICAL RESULTS**

 Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Neutral Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid

**Work Order / ID:** ME0708689-05  
**Collection Date:** 08/15/07 14:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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<b>SEMIVOLATILE ORGANICS</b>		Method: SW8270C		Prep Date/Time: 08/21/07 13:31		Analyst: BEM	
Pyridine	A	ND	0.66		mg/L	2	08/21/07 21:50
1,2,4-Trichlorobenzene	A	ND	0.66		mg/L	2	08/21/07 21:50
2,4,5-Trichlorophenol	A	ND	0.66		mg/L	2	08/21/07 21:50
2,4,6-Trichlorophenol	A	ND	0.66		mg/L	2	08/21/07 21:50
Total Cresol	A	ND	0.66		mg/L	2	08/21/07 21:50
Surr: Nitrobenzene-d5	S	47.2	10-121		%REC	2	08/21/07 21:50
Surr: 2-Fluorobiphenyl	S	41.7	10-109		%REC	2	08/21/07 21:50
Surr: Terphenyl-d14	S	64.2	10-130		%REC	2	08/21/07 21:50
Surr: Phenol-d5	S	62.4	10-100		%REC	2	08/21/07 21:50
Surr: 2-Fluorophenol	S	53.1	10-84.7		%REC	2	08/21/07 21:50
Surr: 2,4,6-Tribromophenol	S	75.4	10-120		%REC	2	08/21/07 21:50

<b>VOLATILE ORGANICS</b>		Method: SW8260B		Prep Date/Time:		Analyst: MLT	
Acetone	A	ND	25		mg/L	500	08/24/07 11:27
Acrolein	A	ND	50		mg/L	500	08/24/07 11:27
Acrylonitrile	A	ND	50		mg/L	500	08/24/07 11:27
Benzene	A	ND	2.5		mg/L	500	08/24/07 11:27
Bromodichloromethane	A	ND	2.5		mg/L	500	08/24/07 11:27
Bromoform	A	ND	2.5		mg/L	500	08/24/07 11:27
Bromomethane	A	ND	5.0		mg/L	500	08/24/07 11:27
2-Butanone	A	ND	5.0		mg/L	500	08/24/07 11:27
Carbon Disulfide	A	ND	5.0		mg/L	500	08/24/07 11:27
Carbon tetrachloride	A	ND	2.5		mg/L	500	08/24/07 11:27
Chlorobenzene	A	ND	2.5		mg/L	500	08/24/07 11:27
Chloroethane	A	ND	5.0		mg/L	500	08/24/07 11:27
Chloroform	A	ND	2.5		mg/L	500	08/24/07 11:27
Chloromethane	A	ND	5.0		mg/L	500	08/24/07 11:27
Dibromochloromethane	A	ND	2.5		mg/L	500	08/24/07 11:27
1,1-Dichloroethane	A	ND	2.5		mg/L	500	08/24/07 11:27
1,2-Dichloroethane	A	ND	2.5		mg/L	500	08/24/07 11:27
1,1-Dichloroethene	A	ND	2.5		mg/L	500	08/24/07 11:27
cis-1,2-Dichloroethene	A	ND	2.5		mg/L	500	08/24/07 11:27
trans-1,2-Dichloroethene	A	ND	2.5		mg/L	500	08/24/07 11:27
1,2-Dichloropropane	A	ND	2.5		mg/L	500	08/24/07 11:27
cis-1,3-Dichloropropene	A	ND	2.5		mg/L	500	08/24/07 11:27
trans-1,3-Dichloropropene	A	ND	2.5		mg/L	500	08/24/07 11:27
Ethylbenzene	A	ND	2.5		mg/L	500	08/24/07 11:27
2-Hexanone	A	ND	5.0		mg/L	500	08/24/07 11:27
4-Methyl-2-Pentanone	A	ND	5.0		mg/L	500	08/24/07 11:27
Methyl-t-Butyl Ether	A	ND	2.5		mg/L	500	08/24/07 11:27

# ANALYTICAL RESULTS

Date: Tuesday, August 28, 2007

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Neutral Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid  
**Work Order / ID:** ME0708689-05  
**Collection Date:** 08/15/07 14:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS		Method: SW8260B		Prep Date/Time:			Analyst: MLT
Methylene chloride	A	ND	5.0	mg/L	500	08/24/07 11:27	
Styrene	A	ND	2.5	mg/L	500	08/24/07 11:27	
1,1,1,2-Tetrachloroethane	A	ND	5.0	mg/L	500	08/24/07 11:27	
1,1,2,2-Tetrachloroethane	A	ND	2.5	mg/L	500	08/24/07 11:27	
Tetrachloroethane	A	ND	2.5	mg/L	500	08/24/07 11:27	
Toluene	A	ND	2.5	mg/L	500	08/24/07 11:27	
1,1,1-Trichloroethane	A	ND	2.5	mg/L	500	08/24/07 11:27	
1,1,2-Trichloroethane	A	ND	2.5	mg/L	500	08/24/07 11:27	
Trichloroethene	A	ND	2.5	mg/L	500	08/24/07 11:27	
Vinyl Acetate	A	ND	5.0	mg/L	500	08/24/07 11:27	
Vinyl chloride	A	ND	5.0	mg/L	500	08/24/07 11:27	
m,p-Xylene	A	ND	2.5	mg/L	500	08/24/07 11:27	
o-Xylene	A	ND	2.5	mg/L	500	08/24/07 11:27	
Trichlorofluoromethane	A	ND	5.0	mg/L	500	08/24/07 11:27	
Total Xylenes	A	ND	2.5	mg/L	500	08/24/07 11:27	
Surr: Toluene-d8	S	93.5	83.9-117	%REC	500	08/24/07 11:27	
Surr: 4-Bromofluorobenzene	S	89.8	72.4-120	%REC	500	08/24/07 11:27	
Surr: Dibromofluoromethane	S	120	80.2-126	%REC	500	08/24/07 11:27	
Surr: 1,2-Dichloroethane-d4	S	129	74.4-132	%REC	500	08/24/07 11:27	

TOTAL CYANIDE		Method: SW-9012B		Prep Date/Time: 08/22/07 08:30			Analyst: RPL
Cyanide, Total	A	4.5	2.5	mg/L	1	08/22/07 15:44	

PH		Method: 4500H B/9040C		Prep Date/Time:			Analyst: RJC
pH	A	5.21	0.02	H	pH units	1	08/20/07 19:40

CYANIDE, REACTIVE		Method: SW7.3.3.2_R3		Prep Date/Time: 08/22/07 11:00			Analyst: RPL
Reactive Cyanide	A	ND	20	mg/L	1	08/22/07 15:50	
Reactive Cyanide	A	ND	40	mg/L	2	08/22/07 16:44	

SULFIDE, REACTIVE		Method: SW7.3.4.2_R3		Prep Date/Time: 08/22/07 11:00			Analyst: SMA
Reactive Sulfide	A	ND	10	mg/L	1	08/23/07 10:30	

TOTAL SULFIDE		Method: 4500-S2 D_18ED		Prep Date/Time:			Analyst: SMA
Sulfide	A	1.2	0.50	mg/L	10	08/23/07 12:40	

# ANALYTICAL RESULTS

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Base Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid

**Work Order / ID:** ME0708689-06  
**Collection Date:** 08/15/07 15:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TOTAL METALS** Method: **SW6010B** Prep Date/Time: **08/17/07 07:20** Analyst: **AVC**

Arsenic	A	ND	0.50		mg/L	10	08/17/07 14:46
Barium	A	ND	0.10		mg/L	10	08/17/07 14:46
Cadmium	A	ND	0.10		mg/L	10	08/17/07 14:46
Chromium	A	ND	0.15		mg/L	10	08/17/07 14:46
Lead	A	ND	0.38		mg/L	10	08/17/07 14:46
Selenium	A	ND	1.5		mg/L	10	08/17/07 14:46
Silver	A	ND	0.50		mg/L	10	08/17/07 14:46

**TOTAL METALS** Method: **SW7470A** Prep Date/Time: **08/20/07 07:15** Analyst: **AVC**

Mercury	A	ND	0.00050		mg/L	1	08/20/07 14:30
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**SEMIVOLATILE ORGANICS** Method: **SW8270C** Prep Date/Time: **08/21/07 13:31** Analyst: **BEM**

4-Bromophenyl phenyl ether	A	ND	0.80		mg/L	4	08/21/07 22:14
Bis(2-ethylhexyl)phthalate	A	ND	0.80		mg/L	4	08/21/07 22:14
Acenaphthene	A	ND	0.80		mg/L	4	08/21/07 22:14
Acenaphthylene	A	ND	0.80		mg/L	4	08/21/07 22:14
Acetophenone	A	ND	0.80		mg/L	4	08/21/07 22:14
Aniline	A	ND	0.80		mg/L	4	08/21/07 22:14
Anthracene	A	ND	0.80		mg/L	4	08/21/07 22:14
Benzidine	A	ND	4.0		mg/L	4	08/21/07 22:14
Benzo[a]anthracene	A	ND	0.80		mg/L	4	08/21/07 22:14
Benzo[a]pyrene	A	ND	0.80		mg/L	4	08/21/07 22:14
Benzo[b]fluoranthene	A	ND	0.80		mg/L	4	08/21/07 22:14
Benzo[g,h,i]perylene	A	ND	0.80		mg/L	4	08/21/07 22:14
Benzo[k]fluoranthene	A	ND	0.80		mg/L	4	08/21/07 22:14
Benzoic acid	A	ND	4.0		mg/L	4	08/21/07 22:14
Benzyl alcohol	A	ND	1.6		mg/L	4	08/21/07 22:14
Bis(2-chloroethoxy)methane	A	ND	0.80		mg/L	4	08/21/07 22:14
Bis(2-chloroethyl)ether	A	ND	0.80		mg/L	4	08/21/07 22:14
Bis(2-chloroisopropyl)ether	A	ND	0.80		mg/L	4	08/21/07 22:14
Butyl benzyl phthalate	A	ND	0.80		mg/L	4	08/21/07 22:14
Carbazole	A	ND	0.80		mg/L	4	08/21/07 22:14
4-Chloro-3-methylphenol	A	ND	1.6		mg/L	4	08/21/07 22:14
4-Chloroaniline	A	ND	1.6		mg/L	4	08/21/07 22:14
2-Chloronaphthalene	A	ND	0.80		mg/L	4	08/21/07 22:14
2-Chlorophenol	A	ND	0.80		mg/L	4	08/21/07 22:14
4-Chlorophenyl phenyl ether	A	ND	0.80		mg/L	4	08/21/07 22:14
Chrysene	A	ND	0.80		mg/L	4	08/21/07 22:14
Dibenz[a,h]anthracene	A	ND	0.80		mg/L	4	08/21/07 22:14
Dibenzofuran	A	ND	0.80		mg/L	4	08/21/07 22:14



# ANALYTICAL RESULTS

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Base Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid

**Work Order / ID:** ME0708689-06  
**Collection Date:** 08/15/07 15:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
<b>SEMIVOLATILE ORGANICS</b>							
Method: SW8270C		Prep Date/Time: 08/21/07 13:31 Analyst: BEM					
1,2-Dichlorobenzene	A	ND	0.80		mg/L	4	08/21/07 22:14
1,3-Dichlorobenzene	A	ND	0.80		mg/L	4	08/21/07 22:14
1,4-Dichlorobenzene	A	ND	0.80		mg/L	4	08/21/07 22:14
3,3'-Dichlorobenzidine	A	ND	4.0		mg/L	4	08/21/07 22:14
2,4-Dichlorophenol	A	ND	0.80		mg/L	4	08/21/07 22:14
2,6-Dichlorophenol	A	ND	0.80		mg/L	4	08/21/07 22:14
Diethyl phthalate	A	ND	0.80		mg/L	4	08/21/07 22:14
Dimethyl phthalate	A	ND	0.80		mg/L	4	08/21/07 22:14
2,4-Dimethylphenol	A	ND	0.80		mg/L	4	08/21/07 22:14
Di-n-butyl phthalate	A	ND	0.80		mg/L	4	08/21/07 22:14
Di-n-octyl phthalate	A	ND	0.80		mg/L	4	08/21/07 22:14
4,6-Dinitro-2-methylphenol	A	ND	4.0		mg/L	4	08/21/07 22:14
2,4-Dinitrophenol	A	ND	4.0		mg/L	4	08/21/07 22:14
2,4-Dinitrotoluene	A	ND	0.80		mg/L	4	08/21/07 22:14
2,6-Dinitrotoluene	A	ND	0.80		mg/L	4	08/21/07 22:14
1,2-Diphenyl-hydrazine	A	ND	0.80		mg/L	4	08/21/07 22:14
Fluoranthene	A	ND	0.80		mg/L	4	08/21/07 22:14
Fluorene	A	ND	0.80		mg/L	4	08/21/07 22:14
Hexachlorobenzene	A	ND	0.80		mg/L	4	08/21/07 22:14
Hexachlorobutadiene	A	ND	0.80		mg/L	4	08/21/07 22:14
Hexachlorocyclopentadiene	A	ND	0.80		mg/L	4	08/21/07 22:14
Hexachloroethane	A	ND	0.80		mg/L	4	08/21/07 22:14
Indeno[1,2,3cd]pyrene	A	ND	0.80		mg/L	4	08/21/07 22:14
Isophorone	A	ND	0.80		mg/L	4	08/21/07 22:14
2-Methylnaphthalene	A	ND	0.80		mg/L	4	08/21/07 22:14
2-Methylphenol	A	ND	0.80		mg/L	4	08/21/07 22:14
3/4-Methylphenol	A	ND	0.80		mg/L	4	08/21/07 22:14
2-Nitroaniline	A	ND	4.0		mg/L	4	08/21/07 22:14
3-Nitroaniline	A	ND	4.0		mg/L	4	08/21/07 22:14
4-Nitroaniline	A	ND	4.0		mg/L	4	08/21/07 22:14
2-Nitrophenol	A	ND	0.80		mg/L	4	08/21/07 22:14
4-Nitrophenol	A	ND	4.0		mg/L	4	08/21/07 22:14
N-Nitrosodi-n-propylamine	A	ND	0.80		mg/L	4	08/21/07 22:14
N-Nitrosodimethylamine	A	15	4.0		mg/L	20	08/21/07 23:55
N-Nitrosodiphenylamine	A	ND	0.80		mg/L	4	08/21/07 22:14
Naphthalene	A	ND	0.80		mg/L	4	08/21/07 22:14
Nitrobenzene	A	ND	0.80		mg/L	4	08/21/07 22:14
Pentachlorophenol	A	ND	4.0		mg/L	4	08/21/07 22:14
Phenanthrene	A	ND	0.80		mg/L	4	08/21/07 22:14
Phenol	A	ND	0.80		mg/L	4	08/21/07 22:14
Pyrene	A	ND	0.80		mg/L	4	08/21/07 22:14

**ANALYTICAL RESULTS**

 Date: *Tuesday, August 28, 2007*

<b>Client:</b>	Environmental Quality Management, Inc.	<b>Work Order / ID:</b>	ME0708689-06
<b>Client Project:</b>	Plating Engineering / West Allis, WI	<b>Collection Date:</b>	08/15/07 15:00
<b>Client Sample ID:</b>	Base Liquid	<b>Date Received:</b>	08/16/07 11:15
<b>Sample Description:</b>			
<b>Sample Matrix:</b>	Liquid		

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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SEMIVOLATILE ORGANICS		Method: SW8270C	Prep Date/Time: 08/21/07 13:31			Analyst: BEM	
Pyridine	A	ND	0.80		mg/L	4	08/21/07 22:14
1,2,4-Trichlorobenzene	A	ND	0.80		mg/L	4	08/21/07 22:14
2,4,5-Trichlorophenol	A	ND	0.80		mg/L	4	08/21/07 22:14
2,4,6-Trichlorophenol	A	ND	0.80		mg/L	4	08/21/07 22:14
Total Cresol	A	ND	0.80		mg/L	4	08/21/07 22:14
Surr: Nitrobenzene-d5	S	60.7	10-121		%REC	4	08/21/07 22:14
Surr: 2-Fluorobiphenyl	S	60.1	10-109		%REC	4	08/21/07 22:14
Surr: Terphenyl-d14	S	94.2	10-130		%REC	4	08/21/07 22:14
Surr: Phenol-d5	S	0	10-100	SI	%REC	4	08/21/07 22:14
Surr: 2-Fluorophenol	S	0	10-84.7	SI	%REC	4	08/21/07 22:14
Surr: 2,4,6-Tribromophenol	S	33.6	10-120		%REC	4	08/21/07 22:14

VOLATILE ORGANICS		Method: SW8260B	Prep Date/Time:			Analyst: MLT	
Acetone	A	0.30	0.25		mg/L	5	08/24/07 14:00
Acrolein	A	ND	0.50		mg/L	5	08/24/07 14:00
Acrylonitrile	A	ND	0.50		mg/L	5	08/24/07 14:00
Benzene	A	ND	0.025		mg/L	5	08/24/07 14:00
Bromodichloromethane	A	ND	0.025		mg/L	5	08/24/07 14:00
Bromoform	A	ND	0.025		mg/L	5	08/24/07 14:00
Bromomethane	A	ND	0.050		mg/L	5	08/24/07 14:00
2-Butanone	A	0.071	0.050		mg/L	5	08/24/07 14:00
Carbon Disulfide	A	ND	0.050		mg/L	5	08/24/07 14:00
Carbon tetrachloride	A	ND	0.025		mg/L	5	08/24/07 14:00
Chlorobenzene	A	ND	0.025		mg/L	5	08/24/07 14:00
Chloroethane	A	ND	0.050		mg/L	5	08/24/07 14:00
Chloroform	A	ND	0.025		mg/L	5	08/24/07 14:00
Chloromethane	A	ND	0.050		mg/L	5	08/24/07 14:00
Dibromochloromethane	A	ND	0.025		mg/L	5	08/24/07 14:00
1,1-Dichloroethane	A	ND	0.025		mg/L	5	08/24/07 14:00
1,2-Dichloroethane	A	ND	0.025		mg/L	5	08/24/07 14:00
1,1-Dichloroethene	A	ND	0.025		mg/L	5	08/24/07 14:00
cis-1,2-Dichloroethene	A	ND	0.025		mg/L	5	08/24/07 14:00
trans-1,2-Dichloroethene	A	ND	0.025		mg/L	5	08/24/07 14:00
1,2-Dichloropropane	A	ND	0.025		mg/L	5	08/24/07 14:00
cis-1,3-Dichloropropene	A	ND	0.025		mg/L	5	08/24/07 14:00
trans-1,3-Dichloropropene	A	ND	0.025		mg/L	5	08/24/07 14:00
Ethylbenzene	A	ND	0.025		mg/L	5	08/24/07 14:00
2-Hexanone	A	ND	0.050		mg/L	5	08/24/07 14:00
4-Methyl-2-Pentanone	A	ND	0.050		mg/L	5	08/24/07 14:00
Methyl-t-Butyl Ether	A	ND	0.025		mg/L	5	08/24/07 14:00



**ANALYTICAL RESULTS**

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Base Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid

**Work Order / ID:** ME0708689-06  
**Collection Date:** 08/15/07 15:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS		Method: SW8260B	Prep Date/Time:	Analyst: MLT		
Methylene chloride	A	ND	0.050	mg/L	5	08/24/07 14:00
Styrene	A	ND	0.025	mg/L	5	08/24/07 14:00
1,1,1,2-Tetrachloroethane	A	ND	0.050	mg/L	5	08/24/07 14:00
1,1,2,2-Tetrachloroethane	A	ND	0.025	mg/L	5	08/24/07 14:00
Tetrachloroethene	A	ND	0.025	mg/L	5	08/24/07 14:00
Toluene	A	ND	0.025	mg/L	5	08/24/07 14:00
1,1,1-Trichloroethane	A	ND	0.025	mg/L	5	08/24/07 14:00
1,1,2-Trichloroethane	A	ND	0.025	mg/L	5	08/24/07 14:00
Trichloroethene	A	ND	0.025	mg/L	5	08/24/07 14:00
Vinyl Acetate	A	ND	0.050	mg/L	5	08/24/07 14:00
Vinyl chloride	A	ND	0.050	mg/L	5	08/24/07 14:00
m,p-Xylene	A	ND	0.025	mg/L	5	08/24/07 14:00
o-Xylene	A	ND	0.025	mg/L	5	08/24/07 14:00
Trichlorofluoromethane	A	ND	0.050	mg/L	5	08/24/07 14:00
Total Xylenes	A	ND	0.025	mg/L	5	08/24/07 14:00
Surr: Toluene-d8	S	104	83.9-117	%REC	5	08/24/07 14:00
Surr: 4-Bromofluorobenzene	S	95.3	72.4-120	%REC	5	08/24/07 14:00
Surr: Dibromofluoromethane	S	10.4	80.2-126	S %REC	5	08/24/07 14:00
Surr: 1,2-Dichloroethane-d4	S	86.7	74.4-132	%REC	5	08/24/07 14:00

TOTAL CYANIDE	Method: SW-9012B	Prep Date/Time: 08/23/07 08:00	Analyst: RPL
Cyanide, Total	A 0.89	0.025	mg/L 1 08/23/07 12:43

PH	Method: 4500H B/9040C	Prep Date/Time:	Analyst: RJC
pH	A 13.6	0.02	H pH units 1 08/20/07 19:40

CYANIDE, REACTIVE	Method: SW7.3.3.2_R3	Prep Date/Time: 08/22/07 11:00	Analyst: RPL
Reactive Cyanide	A ND	20	mg/L 1 08/22/07 15:51

SULFIDE, REACTIVE	Method: SW7.3.4.2_R3	Prep Date/Time: 08/22/07 11:00	Analyst: SMA
Reactive Sulfide	A ND	10	mg/L 1 08/23/07 10:30

TOTAL SULFIDE	Method: 4500-S2 D_18ED	Prep Date/Time:	Analyst: SMA
Sulfide	A 23	5.0	mg/L 100 08/23/07 12:40

## ANALYTICAL RESULTS

Date: Tuesday, August 28, 2007

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** CN Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid

**Work Order / ID:** ME0708689-07  
**Collection Date:** 08/15/07 09:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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## TOTAL METALS

Method: SW6010B

Prep Date/Time: 08/17/07 07:20 Analyst: AVC

Arsenic	A	1.1		0.50	mg/L	10	08/17/07 14:51
Barium	A	0.15		0.10	mg/L	10	08/17/07 14:51
Cadmium	A		ND	0.10	mg/L	10	08/17/07 14:51
Chromium	A		ND	0.15	mg/L	10	08/17/07 14:51
Lead	A	55		0.38	mg/L	10	08/17/07 14:51
Selenium	A	17		1.5	mg/L	10	08/17/07 14:51
Silver	A	29		0.50	mg/L	10	08/17/07 14:51

## TOTAL METALS

Method: SW7470A

Prep Date/Time: 08/20/07 07:15 Analyst: AVC

Mercury	A	0.0022		0.00050	mg/L	1	08/20/07 14:31
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## SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 08/21/07 13:31 Analyst: BEM

4-Bromophenyl phenyl ether	A		ND	0.20	mg/L	1	08/21/07 22:39
Bis(2-ethylhexyl)phthalate	A	0.21		0.20	mg/L	1	08/21/07 22:39
Acenaphthene	A		ND	0.20	mg/L	1	08/21/07 22:39
Acenaphthylene	A		ND	0.20	mg/L	1	08/21/07 22:39
Acetophenone	A		ND	0.20	mg/L	1	08/21/07 22:39
Aniline	A		ND	0.20	mg/L	1	08/21/07 22:39
Anthracene	A		ND	0.20	mg/L	1	08/21/07 22:39
Benzidine	A		ND	1.0	mg/L	1	08/21/07 22:39
Benzo[a]anthracene	A		ND	0.20	mg/L	1	08/21/07 22:39
Benzo[a]pyrene	A		ND	0.20	mg/L	1	08/21/07 22:39
Benzo[b]fluoranthene	A		ND	0.20	mg/L	1	08/21/07 22:39
Benzo[g,h,i]perylene	A		ND	0.20	mg/L	1	08/21/07 22:39
Benzo[k]fluoranthene	A		ND	0.20	mg/L	1	08/21/07 22:39
Benzoic acid	A		ND	1.0	mg/L	1	08/21/07 22:39
Benzyl alcohol	A		ND	0.40	mg/L	1	08/21/07 22:39
Bis(2-chloroethoxy)methane	A		ND	0.20	mg/L	1	08/21/07 22:39
Bis(2-chloroethyl)ether	A		ND	0.20	mg/L	1	08/21/07 22:39
Bis(2-chloroisopropyl)ether	A		ND	0.20	mg/L	1	08/21/07 22:39
Butyl benzyl phthalate	A		ND	0.20	mg/L	1	08/21/07 22:39
Carbazole	A		ND	0.20	mg/L	1	08/21/07 22:39
4-Chloro-3-methylphenol	A		ND	0.40	mg/L	1	08/21/07 22:39
4-Chloroaniline	A		ND	0.40	mg/L	1	08/21/07 22:39
2-Chloronaphthalene	A		ND	0.20	mg/L	1	08/21/07 22:39
2-Chlorophenol	A		ND	0.20	mg/L	1	08/21/07 22:39
4-Chlorophenyl phenyl ether	A		ND	0.20	mg/L	1	08/21/07 22:39
Chrysene	A		ND	0.20	mg/L	1	08/21/07 22:39
Dibenz[a,h]anthracene	A		ND	0.20	mg/L	1	08/21/07 22:39
Dibenzofuran	A		ND	0.20	mg/L	1	08/21/07 22:39



# ANALYTICAL RESULTS

Date: Tuesday, August 28, 2007

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** CN Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid

**Work Order / ID:** ME0708689-07  
**Collection Date:** 08/15/07 09:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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## SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 08/21/07 13:31 Analyst: BEM

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
1,2-Dichlorobenzene	A	ND	0.20		mg/L	1	08/21/07 22:39
1,3-Dichlorobenzene	A	ND	0.20		mg/L	1	08/21/07 22:39
1,4-Dichlorobenzene	A	ND	0.20		mg/L	1	08/21/07 22:39
3,3'-Dichlorobenzidine	A	ND	1.0		mg/L	1	08/21/07 22:39
2,4-Dichlorophenol	A	ND	0.20		mg/L	1	08/21/07 22:39
2,6-Dichlorophenol	A	ND	0.20		mg/L	1	08/21/07 22:39
Diethyl phthalate	A	ND	0.20		mg/L	1	08/21/07 22:39
Dimethyl phthalate	A	ND	0.20		mg/L	1	08/21/07 22:39
2,4-Dimethylphenol	A	ND	0.20		mg/L	1	08/21/07 22:39
Di-n-butyl phthalate	A	ND	0.20		mg/L	1	08/21/07 22:39
Di-n-octyl phthalate	A	ND	0.20		mg/L	1	08/21/07 22:39
4,6-Dinitro-2-methylphenol	A	ND	1.0		mg/L	1	08/21/07 22:39
2,4-Dinitrophenol	A	ND	1.0		mg/L	1	08/21/07 22:39
2,4-Dinitrotoluene	A	ND	0.20		mg/L	1	08/21/07 22:39
2,6-Dinitrotoluene	A	ND	0.20		mg/L	1	08/21/07 22:39
1,2-Diphenyl-hydrazine	A	ND	0.20		mg/L	1	08/21/07 22:39
Fluoranthene	A	ND	0.20		mg/L	1	08/21/07 22:39
Fluorene	A	ND	0.20		mg/L	1	08/21/07 22:39
Hexachlorobenzene	A	ND	0.20		mg/L	1	08/21/07 22:39
Hexachlorobutadiene	A	ND	0.20		mg/L	1	08/21/07 22:39
Hexachlorocyclopentadiene	A	ND	0.20		mg/L	1	08/21/07 22:39
Hexachloroethane	A	ND	0.20		mg/L	1	08/21/07 22:39
Indeno[1,2,3cd]pyrene	A	ND	0.20		mg/L	1	08/21/07 22:39
Isophorone	A	ND	0.20		mg/L	1	08/21/07 22:39
2-Methylnaphthalene	A	ND	0.20		mg/L	1	08/21/07 22:39
2-Methylphenol	A	ND	0.20		mg/L	1	08/21/07 22:39
3/4-Methylphenol	A	ND	0.20		mg/L	1	08/21/07 22:39
2-Nitroaniline	A	ND	1.0		mg/L	1	08/21/07 22:39
3-Nitroaniline	A	ND	1.0		mg/L	1	08/21/07 22:39
4-Nitroaniline	A	ND	1.0		mg/L	1	08/21/07 22:39
2-Nitrophenol	A	ND	0.20		mg/L	1	08/21/07 22:39
4-Nitrophenol	A	ND	1.0		mg/L	1	08/21/07 22:39
N-Nitrosodi-n-propylamine	A	ND	0.20		mg/L	1	08/21/07 22:39
N-Nitrosodimethylamine	A	ND	0.20		mg/L	1	08/21/07 22:39
N-Nitrosodiphenylamine	A	ND	0.20		mg/L	1	08/21/07 22:39
Naphthalene	A	ND	0.20		mg/L	1	08/21/07 22:39
Nitrobenzene	A	ND	0.20		mg/L	1	08/21/07 22:39
Pentachlorophenol	A	ND	1.0		mg/L	1	08/21/07 22:39
Phenanthrene	A	ND	0.20		mg/L	1	08/21/07 22:39
Phenol	A	ND	0.20		mg/L	1	08/21/07 22:39
Pyrene	A	ND	0.20		mg/L	1	08/21/07 22:39



**ANALYTICAL RESULTS**

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** CN Liquid  
**Sample Description:**  
**Sample Matrix:** Liquid

**Work Order / ID:** ME0708689-07  
**Collection Date:** 08/15/07 09:00  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**SEMIVOLATILE ORGANICS** Method: **SW8270C** Prep Date/Time: **08/21/07 13:31** Analyst: **BEM**

Pyridine	A	ND	0.20		mg/L	1	08/21/07 22:39
1,2,4-Trichlorobenzene	A	ND	0.20		mg/L	1	08/21/07 22:39
2,4,5-Trichlorophenol	A	ND	0.20		mg/L	1	08/21/07 22:39
2,4,6-Trichlorophenol	A	ND	0.20		mg/L	1	08/21/07 22:39
Total Cresol	A	ND	0.20		mg/L	1	08/21/07 22:39
Surr: Nitrobenzene-d5	S	38.0	10-121		%REC	1	08/21/07 22:39
Surr: 2-Fluorobiphenyl	S	38.6	10-109		%REC	1	08/21/07 22:39
Surr: Terphenyl-d14	S	72.8	10-130		%REC	1	08/21/07 22:39
Surr: Phenol-d5	S	34.7	10-100		%REC	1	08/21/07 22:39
Surr: 2-Fluorophenol	S	19.9	10-84.7		%REC	1	08/21/07 22:39
Surr: 2,4,6-Tribromophenol	S	0	10-120	S	%REC	1	08/21/07 22:39

**VOLATILE ORGANICS** Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Acetone	A	ND	0.25		mg/L	5	08/24/07 14:31
Acrolein	A	ND	0.50		mg/L	5	08/24/07 14:31
Acrylonitrile	A	ND	0.50		mg/L	5	08/24/07 14:31
Benzene	A	ND	0.025		mg/L	5	08/24/07 14:31
Bromodichloromethane	A	ND	0.025		mg/L	5	08/24/07 14:31
Bromoform	A	ND	0.025		mg/L	5	08/24/07 14:31
Bromomethane	A	ND	0.050		mg/L	5	08/24/07 14:31
2-Butanone	A	ND	0.050		mg/L	5	08/24/07 14:31
Carbon Disulfide	A	ND	0.050		mg/L	5	08/24/07 14:31
Carbon tetrachloride	A	ND	0.025		mg/L	5	08/24/07 14:31
Chlorobenzene	A	ND	0.025		mg/L	5	08/24/07 14:31
Chloroethane	A	ND	0.050		mg/L	5	08/24/07 14:31
Chloroform	A	ND	0.025		mg/L	5	08/24/07 14:31
Chloromethane	A	ND	0.050		mg/L	5	08/24/07 14:31
Dibromochloromethane	A	ND	0.025		mg/L	5	08/24/07 14:31
1,1-Dichloroethane	A	ND	0.025		mg/L	5	08/24/07 14:31
1,2-Dichloroethane	A	ND	0.025		mg/L	5	08/24/07 14:31
1,1-Dichloroethene	A	ND	0.025		mg/L	5	08/24/07 14:31
cis-1,2-Dichloroethene	A	ND	0.025		mg/L	5	08/24/07 14:31
trans-1,2-Dichloroethene	A	ND	0.025		mg/L	5	08/24/07 14:31
1,2-Dichloropropane	A	ND	0.025		mg/L	5	08/24/07 14:31
cis-1,3-Dichloropropene	A	ND	0.025		mg/L	5	08/24/07 14:31
trans-1,3-Dichloropropene	A	ND	0.025		mg/L	5	08/24/07 14:31
Ethylbenzene	A	ND	0.025		mg/L	5	08/24/07 14:31
2-Hexanone	A	ND	0.050		mg/L	5	08/24/07 14:31
4-Methyl-2-Pentanone	A	ND	0.050		mg/L	5	08/24/07 14:31
Methyl-t-Butyl Ether	A	ND	0.025		mg/L	5	08/24/07 14:31

**ANALYTICAL RESULTS**

 Date: *Tuesday, August 28, 2007*

<b>Client:</b>	Environmental Quality Management, Inc.	<b>Work Order / ID:</b>	ME0708689-07
<b>Client Project:</b>	Plating Engineering / West Allis, WI	<b>Collection Date:</b>	08/15/07 09:00
<b>Client Sample ID:</b>	CN Liquid	<b>Date Received:</b>	08/16/07 11:15
<b>Sample Description:</b>			
<b>Sample Matrix:</b>	Liquid		

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS		Method: SW8260B	Prep Date/Time:		Analyst: MLT		
Methylene chloride	A	ND	0.050		mg/L	5	08/24/07 14:31
Styrene	A	ND	0.025		mg/L	5	08/24/07 14:31
1,1,1,2-Tetrachloroethane	A	ND	0.050		mg/L	5	08/24/07 14:31
1,1,2,2-Tetrachloroethane	A	ND	0.025		mg/L	5	08/24/07 14:31
Tetrachloroethene	A	ND	0.025		mg/L	5	08/24/07 14:31
Toluene	A	ND	0.025		mg/L	5	08/24/07 14:31
1,1,1-Trichloroethane	A	ND	0.025		mg/L	5	08/24/07 14:31
1,1,2-Trichloroethane	A	ND	0.025		mg/L	5	08/24/07 14:31
Trichloroethene	A	ND	0.025		mg/L	5	08/24/07 14:31
Vinyl Acetate	A	ND	0.050		mg/L	5	08/24/07 14:31
Vinyl chloride	A	ND	0.050		mg/L	5	08/24/07 14:31
m,p-Xylene	A	ND	0.025		mg/L	5	08/24/07 14:31
o-Xylene	A	ND	0.025		mg/L	5	08/24/07 14:31
Trichlorofluoromethane	A	ND	0.050		mg/L	5	08/24/07 14:31
Total Xylenes	A	ND	0.025		mg/L	5	08/24/07 14:31
Surr: Toluene-d8	S	105	83.9-117		%REC	5	08/24/07 14:31
Surr: 4-Bromofluorobenzene	S	92.4	72.4-120		%REC	5	08/24/07 14:31
Surr: Dibromofluoromethane	S	18.1	80.2-126	S	%REC	5	08/24/07 14:31
Surr: 1,2-Dichloroethane-d4	S	87.5	74.4-132		%REC	5	08/24/07 14:31

<b>TOTAL CYANIDE</b>	Method: SW-9012B	Prep Date/Time: 08/22/07 08:30		Analyst: RPL			
Cyanide, Total	A	23000	250		mg/L	100	08/22/07 14:55
<b>PH</b>	Method: 4500H B/9040C	Prep Date/Time:		Analyst: RJC			
pH	A	13.6	0.02	H	pH units	1	08/20/07 19:40
<b>CYANIDE, REACTIVE</b>	Method: SW7.3.3.2_R3	Prep Date/Time: 08/22/07 11:00		Analyst: RPL			
Reactive Cyanide	A	ND	20		mg/L	1	08/22/07 16:46
<b>SULFIDE, REACTIVE</b>	Method: SW7.3.4.2_R3	Prep Date/Time: 08/22/07 11:00		Analyst: SMA			
Reactive Sulfide	A	ND	10		mg/L	1	08/23/07 10:30
<b>TOTAL SULFIDE</b>	Method: 4500-S2 D_18ED	Prep Date/Time:		Analyst: SMA			
Sulfide	A	6.2	1.0		mg/L	20	08/23/07 12:40



**ANALYTICAL RESULTS**

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** CN Solid  
**Sample Description:**  
**Sample Matrix:** Solid

**Work Order / ID:** ME0708689-08  
**Collection Date:** 08/15/07 09:30  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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<b>TCLP MERCURY</b>	Method: SW1311/7470A	Prep Date/Time: 08/20/07 08:15	Analyst: AVC		
Mercury	A	ND	0.0010 mg/L	1	08/20/07 15:23

<b>TCLP METALS</b>	Method: SW1311/6010B	Prep Date/Time: 08/20/07 07:55	Analyst: AVC		
Arsenic	A	0.067	0.010 mg/L	1	08/20/07 15:02
Barium	A	ND	0.50 mg/L	1	08/20/07 15:02
Cadmium	A	0.0037	0.0020 mg/L	1	08/20/07 15:02
Chromium	A	0.20	0.0030 mg/L	1	08/20/07 15:02
Lead	A	0.12	0.0075 mg/L	1	08/20/07 15:02
Selenium	A	0.11	0.030 mg/L	1	08/20/07 15:02
Silver	A	ND	0.010 mg/L	1	08/20/07 15:02

<b>TOTAL CYANIDE</b>	Method: 9012B	Prep Date/Time: 08/23/07 08:00	Analyst: RPL		
Cyanide, Total	A	120000	2200 mg/Kg	2,000	08/23/07 13:42

<b>CORROSIVITY BY PH</b>	Method: SW9045C	Prep Date/Time:	Analyst: RJC		
pH	A	13.4	0.1 pH Units	1	08/20/07 19:40

<b>TOTAL SULFIDE</b>	Method: SW9030B MOD	Prep Date/Time: 08/21/07 13:40	Analyst: SMA		
Sulfide	A	ND	10 mg/Kg	1	08/23/07 10:10





**ANALYTICAL RESULTS**

Date: *Tuesday, August 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Site Soil  
**Sample Description:**  
**Sample Matrix:** Soil

**Work Order / ID:** ME0708689-09  
**Collection Date:** 08/15/07 16:30  
**Date Received:** 08/16/07 11:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TCLP MERCURY** Method: **SW1311/7470A** Prep Date/Time: **08/28/07 09:00** Analyst: **SAA**  
 Mercury A **ND** 0.0010 mg/L 1 08/28/07 11:44

**TOTAL METALS** Method: **SW6010B** Prep Date/Time: **08/17/07 07:00** Analyst: **AVC**  
 Arsenic A **6.1** 0.46 mg/Kg 1 08/21/07 12:49  
 Barium A **140** 0.093 mg/Kg 1 08/20/07 18:48  
 Cadmium A **4.3** 0.093 mg/Kg 1 08/20/07 18:48  
 Chromium A **1000** 0.14 mg/Kg 1 08/20/07 18:48  
 Lead A **2000** 0.35 mg/Kg 1 08/20/07 18:48  
 Selenium A **ND** 1.4 mg/Kg 1 08/20/07 18:48  
 Silver A **37** 0.46 mg/Kg 1 08/21/07 12:49

**TCLP METALS** Method: **SW1311/6010B** Prep Date/Time: **08/28/07 09:00** Analyst: **AVC**  
 Arsenic A **0.083** 0.030 mg/L 1 08/28/07 12:18  
 Barium A **1.1** 0.50 mg/L 1 08/28/07 12:18  
 Cadmium A **0.019** 0.0020 mg/L 1 08/28/07 12:18  
 Chromium A **0.067** 0.0030 mg/L 1 08/28/07 12:18  
 Lead A **5.3** 0.0075 mg/L 1 08/28/07 12:18  
 Selenium A **ND** 0.030 mg/L 1 08/28/07 12:18  
 Silver A **ND** 0.010 mg/L 1 08/28/07 12:18

**TOTAL METALS** Method: **SW7471A** Prep Date/Time: **08/20/07 11:10** Analyst: **SAA**  
 Mercury A **0.052** 0.034 mg/Kg 1 08/22/07 15:00



**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

Table with 4 columns of abbreviations and their meanings: NA = Not Analyzed, mg/L = Milligrams per Liter (ppm), mg/Kg = Milligrams per Kilogram (ppm), U = Undetected, J = Analyte concentration detected between RL and MDL (Metals / Organics), B = Detected in the associated Method Blank at a concentration above the routine PQL/RL, b = Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL, D = Surrogate recoveries are not calculated due to sample dilution, ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if listed), E = Value above quantitation range, H = Analyte was prepared and/or analyzed outside of the analytical method holding time, I = Matrix Interference, R = RPD outside accepted recovery limits, S = Spike recovery outside recovery limits, Surr = Surrogate, DF = Dilution Factor, RL = Reporting Limit, ST = Sample Type, MDL = Method Detection Limit.

**SAMPLE TYPES**

Table with 2 columns: A = Analyte, I = Internal Standard, S = Surrogate, T = Tentatively Identified Compound (TIC, concentration estimated).

**QC SAMPLE IDENTIFICATIONS**

Table with 4 columns of abbreviations and their meanings: MBLK = Method Blank, DUP = Method Duplicate, LCS = Laboratory Control Sample, MS = Matrix Spike, ICB = Initial Calibration Blank, ICV = Initial Calibration Verification, PDS = Post Digestion Spike, ICSA = Interference Check Standard "A", ICSAB = Interference Check Standard "AB", LCSD = Laboratory Control Sample Duplicate, MSD = Matrix Spike Duplicate, CCB = Continuing Calibration Blank, CCV = Continuing Calibration Verification, SD = Serial Dilution, OPR = Ongoing Precision and Recovery Standard.

**CERTIFICATIONS**

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

**MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)**

Table listing Microbac locations and service centers: Baltimore Division - Baltimore, MD; Camp Hill Division - Camp Hill, PA; Camp Hill Division (SC) - Pittston, PA; Chicagoland Division - Merrillville, IN; Chicagoland Division (SC) - Indianapolis, IN; Corona Division - Corona, CA; Erie Division - Erie, PA; Fayetteville Division - Fayetteville, NC; Hauser Division - Boulder, CO; Kentucky Division - Louisville, KY; Kentucky Division (Sat) - Evansville, IN; Kentucky Division (Sat) - Lexington, KY; Kentucky Division (Sat) - Paducah, KY; Knoxville Division - Maryville, TN; Massachusetts Division - Marlborough, MA; Microbac Corporate Office - Wexford, PA; Microbac NY - Cortland Office - Cortland, NY; Microbac NY - Waverly Office - Waverly, NY; New Castle Division - New Castle, PA; Pittsburgh Division - Warrendale, PA; Richmond Division - Richmond, VA; South Carolina Division - New Ellenton, SC; South Jersey Division - Turnersville, NJ; Southern Headquarters - Poquoson, VA; Southern Testing Division - Wilson, NC; Southern Testing Division (Sat) - Greensboro, NC; Venice Division - Venice, FL.



**COOLER INSPECTION**

**Date:** Tuesday, August 28, 2007

Client Name **Environmental Quality Manage**

Date / Time Received: **8/16/2007 11:15:00 AM**

Work Order Number **ME0708689**

Received by: **DPP**

Checklist completed by **DPP** | **8/16/2007 1:19:26 PM**

Reviewed by **RJM** | **8/17/2007 8:19:23 AM**

Carrier name: **Microbac**

- After-Hour Arrival? Yes  No
- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody included sufficient client identification? Yes  No
- Chain of custody included sufficient sample collector information? Yes  No
- Chain of custody included a sample description? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Chain of custody identified the appropriate matrix? Yes  No
- Chain of custody included date of collection? Yes  No
- Chain of custody included time of collection? Yes  No
- Chain of custody identified the appropriate number of containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Chain of custody identified the appropriate preservatives (if preserved)? Yes  No
- Samples properly preserved? Yes  No

If No, adjusted by? \_\_\_\_\_

Date/Time \_\_\_\_\_

- Chain of custody included the requested analyses? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Samples received on ice? Yes  No

Container/Temp Blank temperatures

Cooler Temp

1 1 °C

VOA vials for aqueous samples have zero headspace? No VOA vials submitted  Yes  No

**ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.**

General Comments: Samples not preserved as these liquids are unknown drum liquids.

Sample ID	Client Sample ID	Comments
ME0708689-01A	Flam Sludge	May Be High CN
ME0708689-02A	Neutral Solid	May Be High CN
ME0708689-03A	Flam Liquid	May Be High CN
ME0708689-04A	Basic Solid	May Be High CN
ME0708689-05A	Neutral Liquid	May Be High CN
ME0708689-06A	Base Liquid	May Be High CN
ME0708689-07A	CN Liquid	May Be High CN
ME0708689-08A	CN Solid	May Be High CN
ME0708689-09A	Site Soil	May Be High CN



1800 Carillon Blvd  
 Cincinnati, OH 45240  
 (513) 825-7500

Environmental Quality Management, Inc.  
 Chain of Custody Record

0708689

COC Tracking: EQ-13323

Project No. 3228-080		Project Name Plating Engineering			No. of Containers	TESTS											
Samplers/Affiliation: (Print Name and Sign) Aaron Roski / ER AWR				Lab P.O. No: 13330		TEP Metals	TEP VOCs	TEP SVOCs	PERMAMANT	PCBs	Tx	PH	TOTAL CU/S	REACTIVE CU/S	TOTAL VUC	TOTAL SUC	TOTAL METALS
Sample ID:	Date	Time	Description/Matrix:	Sample Volume / Comments													
FLAM SLUDGE	8/15	1200	SLUDGE	LOT	1	X	X	X	X	X							
NEUTRAL SOLID	7	1100	SOLID	{	1	X	X	X	X		X	X	X				
FLAM LIQ		1000	LIQ	{	1				X	X				X	X	X	
BASIC SOLID		1300	SOLID	2-4oz	2	X					X	X					
NEUTRAL LIQUID		1400	LIQUID	LOT	1						X	X	X	X	X	X	
BASE LIQUID		1500	LIQUID	{	1						X	X	X	X	X	X	
CN LIQ		0900	LIQUID	{	1						X	X	X	X	X	X	
CN SOLID		0930	SOLID	{	1	X					X	X					
SITE SOIL		1630	SOIL	4oz	1	X											
* SAMPLES MAY BE HIGH NO CYANIDE																	
Relinquished by: (Signature) <i>AWR</i>		Date	Time	Received by: (Signature) <i>[Signature]</i>		Date	Time	Ship To: Microbac									
Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	Received by: (Signature) <i>[Signature]</i>		Date	Time	Rec'd on Ice / 1°C @ 11:20 8/16									
Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	Received by: (Signature) <i>[Signature]</i>		Date	Time	Airbill Number pickup by lab									
Reporting/QA Requirements: per P.O.		Turn Around Time (EXACT DUE DATE): 8-23-07			Report To: A. Roski			Chain of Custody Seal Numbers									

01A  
 02A  
 03A  
 04A  
 05A  
 06A  
 07A  
 08A



ATTACHMENT B4  
BUILDING MATERIAL ASBESTOS SAMPLING RESULTS



Asbestos • Lead • Environmental • Materials & Indoor Air Analysis

EMSL Analytical, Inc.

2444 W. George Street Chicago, IL 60618  
Phone: (773) 313-0099 Fax: (773) 313-0139  
Web: <http://www.emsl.com> Email: [chicago@emsl.com](mailto:chicago@emsl.com)

FACSIMILE TRANSMITTAL SHEET

To: Larry R Hasslinger  
Company: Veolia ES Industrial Services  
Fax Number: (262) 236-8140  
Phone Number: (262) 512-8029

From: EMSL Analytical, Inc.  
Date: September 26, 2007  
PAGES INCLUDING COVER: 7

RE: Analysis Results for Order(s) 260704015

The following report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on the following date(s):

9/20/2007 10:00:00AM

*Andy*  
*474-787-5863*

**Notice:** If you are not the stated recipient of this fax and have received this in error, please discard immediately and contact EMSL Analytical at the phone number listed above.

EMSL Analytical, Inc. News

EMSL PRODUCTS MONTHLY SPECIALS	Training - \$199 Per Person	New Lab Services at EMSL
<p><b>Air-o-Cell (50pk) \$199.00</b></p> <p>PCM Cassettes \$24(10+bx) TEM Cassettes \$39(10+bx)</p> <p><b><u>PUMP BLOWOUT SALE</u></b></p> <p>EMSL E-Lite Pump \$159 EMSL H/D Diaphragm Pump \$169 Rotary Vane Sampling Pump \$189</p> <p><b><u>IAQ INSTRUMENT DEALS</u></b></p> <p>36" L Borescope \$275 Fluke 975V IAQ Meter \$1995 Protimeter Surveymaster \$485 Atrix Portable HEPA Vacuum \$225</p> <p>1-888-958-8170 East Coast 1-888-455-3657 West Coast</p>	<p><b><u>Indoor Air Quality and Industrial Hygiene Sampling Workshop</u></b></p> <p>Ann Arbor, MI .....September 20, 2007 Greensboro, NC.....October 4, 2007 Houston, TX.....November 1, 2007 Baton Rouge, LA.....November 29, 2007 Charleston, SC.....December 6, 2007 Minneapolis, MN.....TBA Tampa, FL.....TBA</p> <p><b><u>Allergens, Asthma Triggers &amp; ERM: / ARMI Mold Sampling</u></b></p> <p>Irvine, CA .....October 24, 2007</p> <p><b>Other Locations Coming Soon</b></p> <p>Register Now!</p> <p>1-800 220-3675</p>	<p><b>Radon Testing Now Available!</b> MRSA (Environmental only) Legionella -FREE Sampling Bottles Food Microbiology Hexavalent Chromium Asbestos in Soils / Vermiculite</p> <p><b><u>PLM Gravimetric Reduction</u></b> Gravimetric reduction is a cost effective add-on to a bulk asbestos sample. This addition helps remove many of the matrices present in building materials that can mask or interfere with the ability to identify and quantify asbestos content. This is a key addition to overcome false negatives, especially in floor tiles, mastics, caulking, plaster, or roofing materials. There are several options available to add gravimetric reduction to: PLM, PLM Point Count, or TEM.</p> <p>1-800-220-3675 East Coast 1-888-455-3675 West Coast</p>

If you have any questions, please do not hesitate to contact us at (773) 313-0099.

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CERTIFICATIONS OF ACCREDITATIONS AND CHAIN OF CUSTODY FORMS


**EMSL Analytical, Inc.**

2444 W. George Street, Chicago, IL 60618

 Phone: (773) 313-0099 Fax: (773) 313-0139 Email: [chicago@emsl.com](mailto:chicago@emsl.com)

Attn: **Larry R Hasslinger**  
**Veolia ES Industrial Services**  
**N104W13275 Donges Bay Road**  
**Germantown, WI 53022**

Fax: (262) 236-8140 Phone: (262) 512-8029  
 Project: USEPA Plating Engineering

Customer ID: VEOL62  
 Customer PO:  
 Received: 09/20/07 10:00 AM  
 EMSL Order: 260704015  
 EMSL Proj:  
 Analysis Date: 9/26/2007  
 Report Date: 9/28/2007

### Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1A 260704015-0001	2nd floor west furnace room	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
1B 260704015-0002	2nd floor west furnace room	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
1C 260704015-0003	2nd floor west furnace room	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
2A 260704015-0004	2nd floor west	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2B 260704015-0005	2nd floor west	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2C 260704015-0006	2nd floor west	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5A 260704015-0007	2nd floor east office	White Fibrous Homogeneous	60% Cellulose 30% Glass	10% Non-fibrous (other)	None Detected
5B 260704015-0008	2nd floor east office	White Fibrous Homogeneous	60% Cellulose 30% Glass	10% Non-fibrous (other)	None Detected

Analyst(s)

Kathy Rhee (42)

 Sandra Sobrino, Laboratory Manager  
 or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Samples received in good condition unless otherwise noted.

Analysis performed by EMSL Chicago (NVLAP-200399-0), TDIH License #30-0289




**EMSL Analytical, Inc.**

2444 W. George Street, Chicago, IL 60618

 Phone: (773) 313-0089 Fax: (773) 313-0139 Email: [chicago@emsl.com](mailto:chicago@emsl.com)

Attn: **Larry R Hasslinger**  
**Veolia ES Industrial Services**  
**N104W13275 Donges Bay Road**  
**Germantown, WI 53022**

Fax: (262) 236-8140 Phone: (262) 512-8029  
 Project: **USEPA Plating Engineering**

Customer ID: VEO62  
 Customer PC:  
 Received: 09/20/07 10:00 AM  
 EMSL Order: 260704015  
 EMSL Proj:  
 Analysis Date: 9/26/2007  
 Report Date: 9/26/2007

### Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5C 260704015-0008	2nd floor east office	White Fibrous Homogeneous	80% Cellulose 30% Glass	10% Non-fibrous (other)	None Detected
9A 260704015-0010	1st floor north + west office				Not Submitted
9B 260704015-0011	1st floor north + west office				Not Submitted
9C 260704015-0012	1st floor north + west office				Not Submitted
13A Ceiling Tile 260704015-0013	1st floor bathrooms n. side	White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
13A Glue 260704015-0013A	1st floor bathrooms n. side	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
13B Ceiling Tile 260704015-0014	1st floor bathrooms n. side	White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
13B Glue 260704015-0014A	1st floor bathrooms n. side	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Kathy Rhee (42)

 Sandra Sobrino, Laboratory Manager  
 or other approved signatory

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Analysis performed by EMSL Chicago (NVLAP 200399-0), TDH License #30-0289

09/20/07 18:01 7733130139



**EMSL Analytical, Inc.**  
 2444 W. George Street, Chicago, IL 60618

Phone: (773) 313-0099 Fax: (773) 313-0139 Email: [chicagolab@emsl.com](mailto:chicagolab@emsl.com)

Attn: **Larry R Hasslinger**  
**Veolia ES Industrial Services**  
**N104W13275 Donges Bay Road**  
**Germantown, WI 53022**

Fax: (262) 236-8140 Phone: (262) 512-8029  
 Project: USEPA Plating Engineering

Customer ID: VEOL62  
 Customer PO: 09/20/07 10:00 AM  
 Received: 260704015  
 EMSL Order:

EMSL Proj:  
 Analysis Date: 9/26/2007  
 Report Date: 9/26/2007

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
13C Ceiling Tile 260704015-0015	1st floor bathrooms n. side	White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
13C Glue 260704015-0015A	1st floor bathrooms n. side	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
15A White Coat 260704015-0016	1st floor bathrooms n. side	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
15A Gray Coat 260704015-0016A	1st floor bathrooms n. side	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
15A Glue 260704015-0016B	1st floor bathrooms n. side				Insufficient Material
15B White Coat 260704015-0017	Bathrooms	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
15B Gray Coat 260704015-0017A	Bathrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
15B Glue 260704015-0017B	Bathrooms	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)  
 Kathy Rhee (42)

*Sandra Sobrino*

Sandra Sobrino, Laboratory Manager  
 or other approved signatory

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 Analysis performed by EMSL Chicago (NVLAP-200359-0), TDH License #30-0289



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 2444 W. George Street, Chicago, IL 60618  
 Phone: (773) 313-0088 Fax: (773) 313-0139 Email: [chicago/lab@emsl.com](mailto:chicago/lab@emsl.com)

Attn: **Larry R Hasslinger**  
**Veolia ES Industrial Services**  
**N104W13275 Donges Bay Road**  
**Germantown, WI 53022**

Customer ID: VEO62  
 Customer PC:  
 Received: 09/20/07 10:00 AM  
 EMSL Order: 260704015

Fax: (262) 236-8140 Phone: (262) 512-8029  
 Project: USEPA Plating Engineering

EMSL Proj:  
 Analysis Date: 9/26/2007  
 Report Date: 9/26/2007

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

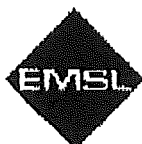
Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
15C White Coat 260704015-0018	Bathrooms	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
15C Gray Coat 260704015-0018A	Bathrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
15C Glue 260704015-0018B	Bathrooms	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
17A 260704015-0019	Bathrooms	Brown Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
17B 260704015-0020	Boiler 2 s. side	Brown Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
17C 260704015-0021	Boiler 2 s. side	Brown Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
19A 260704015-0022	Boiler 2 s. side	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
19B 260704015-0023	Boiler 2 s. side	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected

Analyst(s)

Kathy Rhee (42)

Sandra Sobrino, Laboratory Manager  
 or other approved signatory

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 Analysis performed by EMSL Chicago (NVLAP-200399-0), TDH License #30-0289



**EMSL Analytical, Inc.**

2444 W. George Street, Chicago, IL 60618

Phone: (773) 313-0099 Fax: (773) 313-0139 Email: [chicago@emsl.com](mailto:chicago@emsl.com)

Attn: **Larry R Hasslinger**  
**Veolia ES Industrial Services**  
**N104W13275 Donges Bay Road**  
**Germantown, WI 53022**

Customer ID: VEOL62  
 Customer PO:  
 Received: 09/20/07 10:00 AM  
 EMSL Order: 260704015

Fax: (262) 236-8140 Phone: (262) 512-8029  
 Project: USEPA Plating Engineering

EMSL Proj:  
 Analysis Date: 9/26/2007  
 Report Date: 9/26/2007

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
19C 260704015-0024	Boiler 2 s. side	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
20A 260704015-0025	Boiler 1 n. side	Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
20B 260704015-0026	Boiler 1 n. side	Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
20C 260704015-0027	Boiler 1 n. side	Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
6 Insulation * 260704015-0028		White Fibrous Homogeneous	60% Cellulose 30% Glass	10% Non-fibrous (other)	None Detected
6 Drywall * 260704015-0029		White Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
6 Glue * 260704015-0030		Brown Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Actinolite
7 Floor Tile * 260704015-0031		Green Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Kathy Rhee (42)

Sandra Sobrino, Laboratory Manager  
 or other approved signatory

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 Analysis performed by EMSL Chicago (NVLAP-200399-0), TDH License #30-0288



**EMSL Analytical, Inc.**  
 2444 W. George Street, Chicago, IL 60618

Phone: (773) 313-0099 Fax: (773) 313-0138 Email: [chicago@emsl.com](mailto:chicago@emsl.com)

Attn: **Larry R Hasslinger**  
**Veolia ES Industrial Services**  
**N104W13275 Donges Bay Road**  
**Germantown, WI 53022**

Fax: (262) 236-8140 Phone: (262) 512-8029  
 Project: USEPA Plating Engineering

Customer ID: VEOL62  
 Customer PO:  
 Received: 09/20/07 10:00 AM  
 EMSL Order: 260704015  
 EMSL Proj:  
 Analysis Date: 9/26/2007  
 Report Date: 9/26/2007

**Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
7 Mastic *		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
260704015-0032					
8 *		Brown Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
260704015-0033					

\* Not listed on original COC.

Analyst(s)

Kathy Rhee (42)

Sandra Sobrino, Laboratory Manager  
 or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Samples received in good condition unless otherwise noted.

Analysis performed by EMSL Chicago (NVLAP 200359-0), TDH License #30-0295



## Chain of Custody

### Asbestos Lab Services

- 4015

EMSL Analytical, Inc.  
2001 East 52nd Street  
Indianapolis, IN 46205

Phone: (317) 803-2997  
Fax: (317) 803-3047  
http://www.emsl.com

Please print all information legibly.

Client Sample # (s) 1A - 13B

Relinquished: [Signature] Date: 9/18/07

Received: [Signature] Date: 9.20.07

Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_

Received: \_\_\_\_\_ Date: \_\_\_\_\_

Total Samples #: 14

Time: \_\_\_\_\_

Time: 10am

Time: \_\_\_\_\_

SAMPLES ACCEPTED FOR ANALYSIS  
BY EMSL ANALYTICAL, INC.  
CHICAGO, IL

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
1A	CEILING MATERIAL - 2 <sup>ND</sup> FLOOR WEST FURNACE ROOM	
1B	↓	
1C	↓	
2A	WALL MATERIAL - 2 <sup>ND</sup> FLOOR WEST	
2B	↓	
2C	↓	
5A	12" WH CRATERED CEILING TILE 2 <sup>ND</sup> FLOOR EAST OFFICE	
5B	↓	
5C	↓	
9A	12" WH CRATERED CEILING TILE 1 <sup>ST</sup> FLOOR NORTH & WEST OFFICE	
9B	↓	
9C	↓	
13A	12" WH CEILING TILE 1 <sup>ST</sup> FLOOR BATHROOMS N-SIDE	
13B	↓	

PLEASE STOP AT 1<sup>ST</sup> POSITIVE AREA SET



## Chain of Custody Asbestos Lab Services

- 4015

EMSL Analytical, Inc.  
2444 W. George Street  
Chicago, IL 60618

Phone: (773) 313-0099  
Fax: (773) 313-0139  
<http://www.emsl.com>

Please print all information legibly.

Client Sample # (s) 13C 20C Total Samples #: 13

Relinquished: [Signature] Date: 9/18/07 Time: \_\_\_\_\_

Received: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

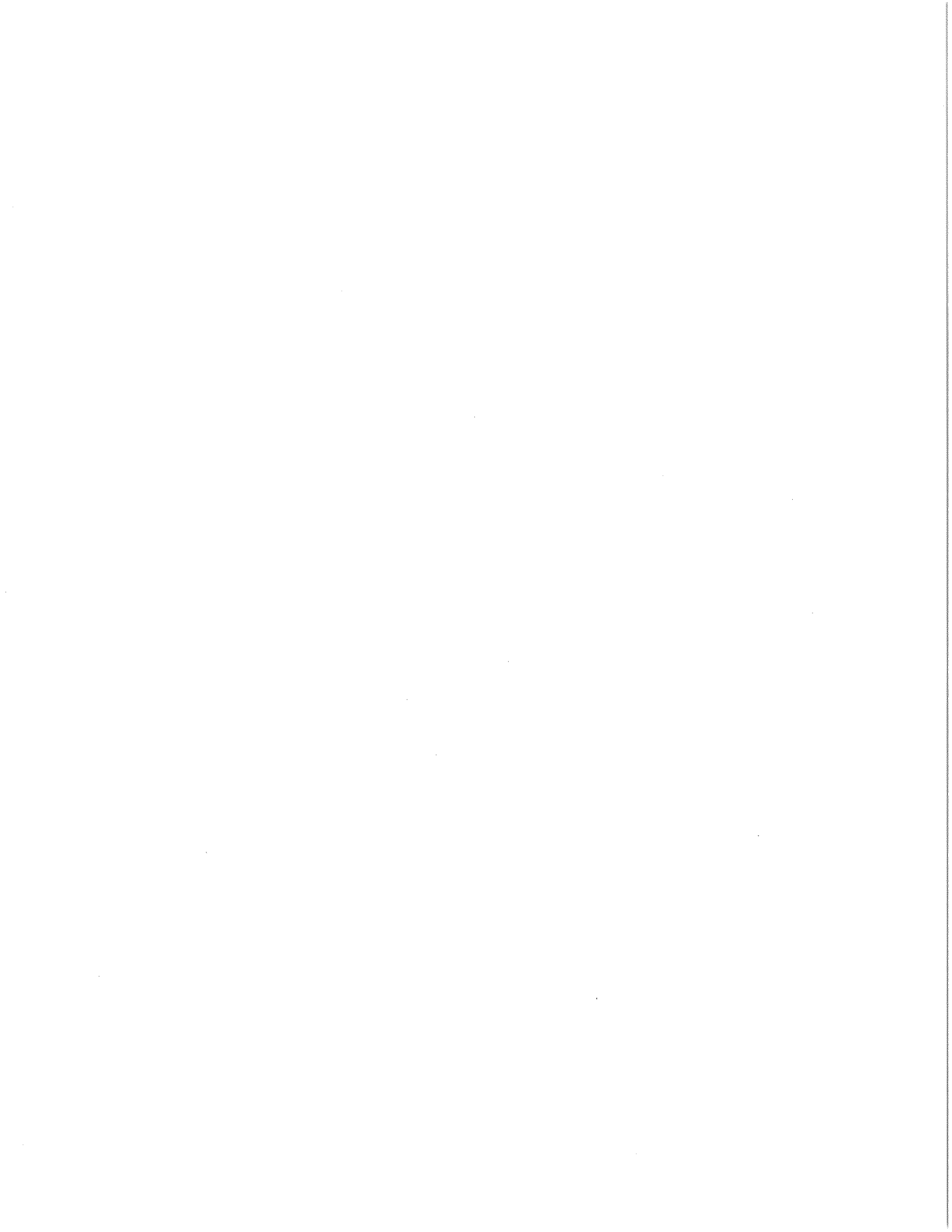
SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
13C	12" WH. CEILING TILES 1 <sup>ST</sup> FLOOR BATHROOMS N. SIDE	
15A	CEILING BOARD UNDER CEILING TILES IN BATHROOMS	
15B		
15C	↓	
17A	BOILER #2 S. SIDE INSULATION AND WRAP	
17B		
17C	↓	
19A	BOILER #2 S. SIDE DOOR INSULATION	
19B		
19C	↓	
20A	BOILER #1 N. SIDE OUTER WRAP	
20B		
20C	↓	

PLEASE STOP AT 1<sup>ST</sup> POSITIVE OF EACH SET





ATTACHMENT B5  
BACKFILL/BORROW SOURCE CHARACTERIZATION SAMPLING RESULTS





September 28, 2007

Aaron Roski  
Environmental Quality Management, Inc.  
1800 Carillon Boulevard  
Cincinnati, OH 45240

Work Order No.: ME0709A84

RE: Plating Engineering / West Allis, WI  
Dear Aaron Roski:

Microbac Laboratories, Inc. received 2 samples on 9/27/2007 9:30:00 AM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,  
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "K. Ziolkowski", written over the printed name.

Karen A. Ziolkowski  
Senior Project Manager

Enclosures



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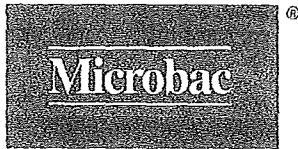
**WORK ORDER SAMPLE SUMMARY****Date:** *Friday, September 28, 2007*

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**CLIENT:** Environmental Quality Management, Inc.  
**Project:** Plating Engineering / West Allis, WI  
**Lab Order:** ME0709A84

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
ME0709A84-01A	Borrow Pit 1	Proj 030228.0080	9/26/2007 10:30:00 AM	9/27/2007
ME0709A84-02A	Borrow Pit 2	Proj 030228.0080	9/26/2007 10:30:00 AM	9/27/2007



**ANALYTICAL RESULTS**

Date: *Friday, September 28, 2007*

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Borrow Pit 1  
**Sample Description:** Proj 030228.0080  
**Sample Matrix:** Soil

**Work Order / ID:** ME0709A84-01  
**Collection Date:** 09/26/07 10:30  
**Date Received:** 09/27/07 09:30

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TOTAL METALS**

Method: **SW6020A**

Prep Date/Time: **09/27/07 08:15** Analyst: **SAA**

Aluminum	A	15000	870		mg/Kg	500	09/28/07 13:25
Antimony	A	ND	0.87		mg/Kg	5	09/28/07 09:44
Arsenic	A	1.5	0.43		mg/Kg	5	09/28/07 09:44
Barium	A	42	0.087		mg/Kg	5	09/28/07 09:44
Beryllium	A	0.48	0.043		mg/Kg	5	09/28/07 09:44
Cadmium	A	0.55	0.087		mg/Kg	5	09/28/07 09:44
Calcium	A	68000	220		mg/Kg	50	09/28/07 11:47
Chromium	A	19	0.13		mg/Kg	5	09/28/07 09:44
Cobalt	A	6.4	0.13		mg/Kg	5	09/28/07 09:44
Copper	A	12	0.43		mg/Kg	5	09/28/07 09:44
Iron	A	14000	2.2		mg/Kg	5	09/28/07 09:44
Lead	A	6.2	0.33		mg/Kg	5	09/28/07 09:44
Magnesium	A	30000	220		mg/Kg	50	09/28/07 11:47
Manganese	A	260	0.087		mg/Kg	5	09/28/07 09:44
Nickel	A	17	0.43		mg/Kg	5	09/28/07 09:44
Potassium	A	2700	22		mg/Kg	5	09/28/07 09:44
Selenium	A	0.26	0.22		mg/Kg	5	09/28/07 09:44
Silver	A	ND	0.43		mg/Kg	5	09/28/07 09:44
Sodium	A	530	22		mg/Kg	5	09/28/07 09:44
Thallium	A	ND	0.22		mg/Kg	5	09/28/07 09:44
Vanadium	A	18	0.35		mg/Kg	5	09/28/07 09:44
Zinc	A	29	0.87		mg/Kg	5	09/28/07 09:44

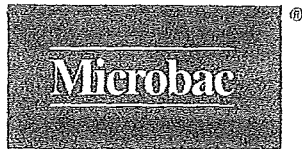
**TOTAL METALS**

Method: **SW7471A**

Prep Date/Time: **09/27/07 08:30** Analyst: **SAA**

Mercury	A	ND	0.040		mg/Kg	1	09/27/07 13:47
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**ANALYTICAL RESULTS**

Date: *Friday, September 28, 2007*

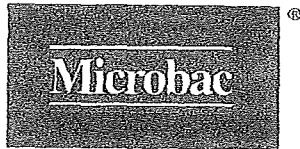
**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Borrow Pit 2  
**Sample Description:** Proj 030228.0080  
**Sample Matrix:** Soil

**Work Order / ID:** ME0709A84-02  
**Collection Date:** 09/26/07 10:30  
**Date Received:** 09/27/07 09:30

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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TOTAL METALS		Method: SW6020A	Prep Date/Time: 09/27/07 08:15 Analyst: SAA				
Aluminum	A	10000	100	mg/Kg	50	09/28/07 12:12	
Antimony	A	ND	1.0	mg/Kg	5	09/28/07 10:09	
Arsenic	A	3.4	0.50	mg/Kg	5	09/28/07 10:09	
Barium	A	40	0.10	mg/Kg	5	09/28/07 10:09	
Beryllium	A	0.42	0.050	mg/Kg	5	09/28/07 10:09	
Cadmium	A	0.51	0.10	mg/Kg	5	09/28/07 10:09	
Calcium	A	80000	250	mg/Kg	50	09/28/07 12:12	
Chromium	A	15	0.15	mg/Kg	5	09/28/07 10:09	
Cobalt	A	7.1	0.15	mg/Kg	5	09/28/07 10:09	
Copper	A	13	0.50	mg/Kg	5	09/28/07 10:09	
Iron	A	13000	2.5	mg/Kg	5	09/28/07 10:09	
Lead	A	5.9	0.38	mg/Kg	5	09/28/07 10:09	
Magnesium	A	38000	250	mg/Kg	50	09/28/07 12:12	
Manganese	A	290	0.10	mg/Kg	5	09/28/07 10:09	
Nickel	A	16	0.50	mg/Kg	5	09/28/07 10:09	
Potassium	A	2200	25	mg/Kg	5	09/28/07 10:09	
Selenium	A	0.39	0.25	mg/Kg	5	09/28/07 10:09	
Silver	A	ND	0.50	mg/Kg	5	09/28/07 10:09	
Sodium	A	280	25	mg/Kg	5	09/28/07 10:09	
Thallium	A	ND	0.25	mg/Kg	5	09/28/07 10:09	
Vanadium	A	18	0.40	mg/Kg	5	09/28/07 10:09	
Zinc	A	29	1.0	mg/Kg	5	09/28/07 10:09	

TOTAL METALS		Method: SW7471A	Prep Date/Time: 09/27/07 08:30 Analyst: SAA				
Mercury	A	ND	0.040	mg/Kg	1	09/27/07 14:04	



**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

NA = Not Analyzed	N/A = Not Applicable		
mg/L = Milligrams per Liter (ppm)	ug/L = Micrograms per Liter (ppb)	cfu = Colony Forming Unit	
mg/Kg = Milligrams per Kilogram (ppm)	ug/Kg = Micrograms per Kilogram (ppb)	ng/L = Nanograms per Liter (ppt)	
U = Undetected			
J = Analyte concentration detected between RL and MDL (Metals / Organics)			
B = Detected in the associated Method Blank at a concentration above the routine PQL/RL			
b = Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL			
D = Surrogate recoveries are not calculated due to sample dilution			
ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)			
E = Value above quantitation range			
H = Analyte was prepared and/or analyzed outside of the analytical method holding time			
I = Matrix Interference			
R = RPD outside accepted recovery limits			
S = Spike recovery outside recovery limits			
Surr = Surrogate			
DF = Dilution Factor	RL = Reporting Limit	ST = Sample Type	MDL = Method Detection Limit

**SAMPLE TYPES**

A = Analyte
I = Internal Standard
S = Surrogate
T = Tentatively Identified Compound (TIC, concentration estimated)

**QC SAMPLE IDENTIFICATIONS**

MBLK = Method Blank	ICSA = Interference Check Standard "A"	OPR = Ongoing Precision and Recovery Standard
DUP = Method Duplicate	ICSAB = Interference Check Standard "AB"	
LCS = Laboratory Control Sample	LCSD = Laboratory Control Sample Duplicate	
MS = Matrix Spike	MSD = Matrix Spike Duplicate	
ICB = Initial Calibration Blank	CCB = Continuing Calibration Blank	
ICV = Initial Calibration Verification	CCV = Continuing Calibration Verification	
PDS = Post Digestion Spike	SD = Serial Dilution	

**CERTIFICATIONS**

*Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.*

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

**MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)**

Baltimore Division - Baltimore, MD	Kentucky Division - Louisville, KY	New Castle Division - New Castle, PA
Camp Hill Division - Camp Hill, PA	Kentucky Division (Sat) - Evansville, IN	Pittsburgh Division - Warrendale, PA
Camp Hill Division (SC) - Pittston, PA	Kentucky Division (Sat) - Lexington, KY	Richmond Division - Richmond, VA
Chicagoland Division - Merrillville, IN	Kentucky Division (Sat) - Paducah, KY	South Carolina Division - New Ellenton, NC
Chicagoland Division (SC) - Indianapolis, IN	Knoxville Division - Maryville, TN	South Jersey Division - Turnersville, NJ
Corona Division - Corona, CA	Massachusetts Division - Marlborough, MA	Southern Headquarters - Poquoson, VA
Erie Division - Erie, PA	Microbac Corporate Office - Wexford, PA	Southern Testing Division - Wilson, NC
Fayetteville Division - Fayetteville, NC	Microbac NY - Cortland Office - Cortland, NY	Southern Testing Division (Sat) - Greensboro, NC
Hauser Division - Boulder, CO	Microbac NY - Waverly Office - Waverly, NY	Venice Division - Venice, FL



**COOLER INSPECTION**

**Date:** Friday, September 28, 2007

Client Name **Environmental Quality Manage**

Date / Time Received: **9/27/2007 9:30:00 AM**

Work Order Number **ME0709A84**

Received by **DPP**

Checklist completed by **DPP** | **9/27/2007 11:02:44 AM**

Reviewed by **KAZ** | **9/28/2007 3:58:39 PM**

Carrier name: FedEx

- After-Hour Arrival? Yes  No
- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody included sufficient client identification? Yes  No
- Chain of custody included sufficient sample collector information? Yes  No
- Chain of custody included a sample description? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Chain of custody identified the appropriate matrix? Yes  No
- Chain of custody included date of collection? Yes  No
- Chain of custody included time of collection? Yes  No
- Chain of custody identified the appropriate number of containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Chain of custody identified the appropriate preservatives (if preserved)? Yes  No
- Samples properly preserved? Yes  No

If No, adjusted by? \_\_\_\_\_

Date/Time \_\_\_\_\_

- Chain of custody included the requested analyses? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Samples received on ice? Yes  No

Container/Temp Blank temperatures Cooler Temp  
1 4 °C

VOA vials for aqueous samples have zero headspace? No VOA vials submitted  Yes  No

**ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.**

General Comments:

Sample ID	Client Sample ID	Comments
ME0709A84-01A	Borrow Pit 1	
ME0709A84-02A	Borrow Pit 2	





1800 Carllion Blvd  
 Cincinnati, OH 45240  
 (513) 825-7500

**Environmental Quality Management, Inc.**  
**Chain of Custody Record**

C Tracking: EQ-13344

Project No.		Project Name				No of Containers	TESTS									
030228.0080		USEPA/Plating Engineering					TAL	Temp	Metal	TCLP	UOP	TCLP	SV09	PH	FlusLpt	Reactivity
Samplers/Affiliation: (Print Name and Sign)					Lab P.O. No:											
Mark Douglas / <i>[Signature]</i>																
Sample ID:	Date	Time	Description/Matrix:	Sample Volume / Comments												
Borrow pit 1	9-26-07	1030	Soil	8oz	2	X										
Borrow pit 2	9-26-07	1030	Soil	8oz	2	X										
Alley Sample	9-26-07	1130	Soil	16oz	4		X	X	X	X	X	X				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Ship To:										
<i>[Signature]</i>	9-26-07	1200														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Airbill Number										
			<i>[Signature]</i>	9-27-07	0930											
Reporting/QA Requirements:	Turn Around Time (EXACT DUE DATE): RUSH TAL 9-28-07 TCLP 10-2-07			Report To: Eric Carbi - Mark Doug!		Chain of Custody Seal Numbers										

RUSH

0709AP4  
01A  
02A

4°C





October 31, 2007

Aaron Roski  
Environmental Quality Management, Inc.  
1800 Carillon Boulevard  
Cincinnati, OH 45240

Work Order No.: ME0710896

RE: Plating Engineering / West Allis, WI  
Dear Aaron Roski:

Microbac Laboratories, Inc. received 1 sample on 10/22/2007 8:10:00 AM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,  
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "R. Misiunas", written over the printed name of the sender.

Ronald J. Misiunas  
Client Services Manager

Enclosures



**WORK ORDER SAMPLE SUMMARY**

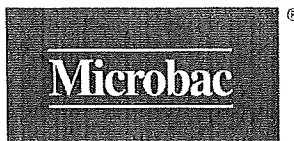
**Date:** *Wednesday, October 31, 2007*

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**CLIENT:** Environmental Quality Management, Inc.  
**Project:** Plating Engineering / West Allis, WI  
**Lab Order:** ME0710896

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
ME0710896-01A	Back Fill		10/19/2007 2:30:00 PM	10/22/2007



# ANALYTICAL RESULTS

Date: Wednesday, October 31, 2007

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Back Fill  
**Sample Description:**  
**Sample Matrix:** Soil

**Work Order / ID:** ME0710896-01  
**Collection Date:** 10/19/07 14:30  
**Date Received:** 10/22/07 08:10

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**PCB'S** Method: SW8082 Prep Date/Time: 10/25/07 10:22 Analyst: ALS

Aroclor 1016	A	ND	0.033		mg/Kg	1	10/27/07 01:34
Aroclor 1221	A	ND	0.033		mg/Kg	1	10/27/07 01:34
Aroclor 1232	A	ND	0.033		mg/Kg	1	10/27/07 01:34
Aroclor 1242	A	ND	0.033		mg/Kg	1	10/27/07 01:34
Aroclor 1248	A	ND	0.033		mg/Kg	1	10/27/07 01:34
Aroclor 1254	A	ND	0.033		mg/Kg	1	10/27/07 01:34
Aroclor 1260	A	ND	0.033		mg/Kg	1	10/27/07 01:34
Aroclor 1262	A	ND	0.033		mg/Kg	1	10/27/07 01:34
Aroclor 1268	A	ND	0.033		mg/Kg	1	10/27/07 01:34
Total PCB's	A	ND	0.033		mg/Kg	1	10/27/07 01:34
Surr: Tetrachloro-m-xylene	S	75.1	5-165		%REC	1	10/27/07 01:34
Surr: Decachlorobiphenyl	S	85.1	5-222		%REC	1	10/27/07 01:34

**SEMIVOLATILE ORGANICS** Method: SW8270C Prep Date/Time: 10/25/07 04:27 Analyst: BEM

4-Bromophenyl phenyl ether	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Bis(2-ethylhexyl)phthalate	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Acenaphthene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Acenaphthylene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Acetophenone	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Aniline	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Anthracene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Benzidine	A	ND	1.6		mg/Kg	1	10/25/07 21:59
Benzo[a]anthracene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Benzo[a]pyrene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Benzo[b]fluoranthene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Benzo[g,h,i]perylene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Benzo[k]fluoranthene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Benzoic acid	A	ND	1.6		mg/Kg	1	10/25/07 21:59
Benzyl alcohol	A	ND	0.66		mg/Kg	1	10/25/07 21:59
Bis(2-chloroethoxy)methane	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Bis(2-chloroethyl)ether	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Bis(2-chloroisopropyl)ether	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Butyl benzyl phthalate	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Carbazole	A	ND	0.33		mg/Kg	1	10/25/07 21:59
4-Chloro-3-methylphenol	A	ND	0.66		mg/Kg	1	10/25/07 21:59
4-Chloroaniline	A	ND	0.66		mg/Kg	1	10/25/07 21:59
2-Chloronaphthalene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
2-Chlorophenol	A	ND	0.33		mg/Kg	1	10/25/07 21:59
4-Chlorophenyl phenyl ether	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Chrysene	A	ND	0.33		mg/Kg	1	10/25/07 21:59



# ANALYTICAL RESULTS

Date: Wednesday, October 31, 2007

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Back Fill  
**Sample Description:**  
**Sample Matrix:** Soil

**Work Order / ID:** ME0710896-01  
**Collection Date:** 10/19/07 14:30  
**Date Received:** 10/22/07 08:10

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
<b>SEMIVOLATILE ORGANICS</b> Method: SW8270C Prep Date/Time: 10/25/07 04:27 Analyst: BEM							
Dibenz[a,h]anthracene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Dibenzofuran	A	ND	0.33		mg/Kg	1	10/25/07 21:59
1,2-Dichlorobenzene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
1,3-Dichlorobenzene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
1,4-Dichlorobenzene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
3,3'-Dichlorobenzidine	A	ND	1.6		mg/Kg	1	10/25/07 21:59
2,4-Dichlorophenol	A	ND	0.33		mg/Kg	1	10/25/07 21:59
2,6-Dichlorophenol	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Diethyl phthalate	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Dimethyl phthalate	A	ND	0.33		mg/Kg	1	10/25/07 21:59
2,4-Dimethylphenol	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Di-n-butyl phthalate	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Di-n-octyl phthalate	A	ND	0.33		mg/Kg	1	10/25/07 21:59
4,6-Dinitro-2-methylphenol	A	ND	1.6		mg/Kg	1	10/25/07 21:59
2,4-Dinitrophenol	A	ND	1.6		mg/Kg	1	10/25/07 21:59
2,4-Dinitrotoluene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
2,6-Dinitrotoluene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
1,2-Diphenyl-hydrazine	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Fluoranthene	A	0.52	0.33		mg/Kg	1	10/26/07 19:34
Fluorene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Hexachlorobenzene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Hexachlorobutadiene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Hexachlorocyclopentadiene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Hexachloroethane	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Indeno[1,2,3cd]pyrene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Isophorone	A	ND	0.33		mg/Kg	1	10/25/07 21:59
2-Methylnaphthalene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
2-Methylphenol	A	ND	0.33		mg/Kg	1	10/25/07 21:59
3/4-Methylphenol	A	ND	0.33		mg/Kg	1	10/25/07 21:59
2-Nitroaniline	A	ND	1.6		mg/Kg	1	10/25/07 21:59
3-Nitroaniline	A	ND	1.6		mg/Kg	1	10/25/07 21:59
4-Nitroaniline	A	ND	1.6		mg/Kg	1	10/25/07 21:59
2-Nitrophenol	A	ND	0.33		mg/Kg	1	10/25/07 21:59
4-Nitrophenol	A	ND	1.6		mg/Kg	1	10/25/07 21:59
N-Nitrosodi-n-propylamine	A	ND	0.33		mg/Kg	1	10/25/07 21:59
N-Nitrosodimethylamine	A	ND	0.33		mg/Kg	1	10/25/07 21:59
N-Nitrosodiphenylamine	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Naphthalene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Nitrobenzene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Pentachlorophenol	A	ND	1.6		mg/Kg	1	10/25/07 21:59
Phenanthrene	A	0.39	0.33		mg/Kg	1	10/25/07 21:59



# ANALYTICAL RESULTS

Date: Wednesday, October 31, 2007

Client: Environmental Quality Management, Inc.  
 Client Project: Plating Engineering / West Allis, WI  
 Client Sample ID: Back Fill  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0710896-01  
 Collection Date: 10/19/07 14:30  
 Date Received: 10/22/07 08:10

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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SEMIVOLATILE ORGANICS		Method: SW8270C	Prep Date/Time: 10/25/07 04:27		Analyst: BEM		
Phenol	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Pyrene	A	0.38	0.33		mg/Kg	1	10/25/07 21:59
Pyridine	A	ND	0.33		mg/Kg	1	10/25/07 21:59
1,2,4-Trichlorobenzene	A	ND	0.33		mg/Kg	1	10/25/07 21:59
2,4,5-Trichlorophenol	A	ND	1.6		mg/Kg	1	10/25/07 21:59
2,4,6-Trichlorophenol	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Total Cresol	A	ND	0.33		mg/Kg	1	10/25/07 21:59
Surr: Nitrobenzene-d5	S	55.9	10-139		%REC	1	10/25/07 21:59
Surr: 2-Fluorobiphenyl	S	49.0	10-124		%REC	1	10/25/07 21:59
Surr: Terphenyl-d14	S	63.3	10-157		%REC	1	10/25/07 21:59
Surr: Phenol-d5	S	62.4	10-97.5		%REC	1	10/25/07 21:59
Surr: 2-Fluorophenol	S	53.3	10-91.4		%REC	1	10/25/07 21:59
Surr: 2,4,6-Tribromophenol	S	73.4	10-107		%REC	1	10/25/07 21:59

VOLATILE ORGANICS		Method: SW8260B	Prep Date/Time:		Analyst: NLT		
Acetone	A	ND	0.050		mg/Kg	1	10/22/07 13:51
Acrolein	A	ND	0.10		mg/Kg	1	10/22/07 13:51
Acrylonitrile	A	ND	0.10		mg/Kg	1	10/22/07 13:51
Benzene	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
Bromodichloromethane	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
Bromoform	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
Bromomethane	A	ND	0.010		mg/Kg	1	10/22/07 13:51
2-Butanone	A	ND	0.010		mg/Kg	1	10/22/07 13:51
Carbon Disulfide	A	ND	0.010		mg/Kg	1	10/22/07 13:51
Carbon tetrachloride	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
Chlorobenzene	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
Chloroethane	A	ND	0.010		mg/Kg	1	10/22/07 13:51
Chloroform	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
Chloromethane	A	ND	0.010		mg/Kg	1	10/22/07 13:51
Dibromochloromethane	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
1,1-Dichloroethane	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
1,2-Dichloroethane	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
1,1-Dichloroethene	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
cis-1,2-Dichloroethene	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
trans-1,2-Dichloroethene	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
1,2-Dichloropropane	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
cis-1,3-Dichloropropene	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
trans-1,3-Dichloropropene	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
Ethylbenzene	A	ND	0.0050		mg/Kg	1	10/22/07 13:51
2-Hexanone	A	ND	0.010		mg/Kg	1	10/22/07 13:51



# ANALYTICAL RESULTS

Date: Wednesday, October 31, 2007

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Back Fill  
**Sample Description:**  
**Sample Matrix:** Soil

**Work Order / ID:** ME0710896-01  
**Collection Date:** 10/19/07 14:30  
**Date Received:** 10/22/07 08:10

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS		Method: SW8260B	Prep Date/Time:	Analyst: NLT		
4-Methyl-2-Pentanone	A	ND	0.010	mg/Kg	1	10/22/07 13:51
Methyl-t-Butyl Ether	A	ND	0.0050	mg/Kg	1	10/22/07 13:51
Methylene chloride	A	ND	0.020	mg/Kg	1	10/22/07 13:51
Styrene	A	ND	0.0050	mg/Kg	1	10/22/07 13:51
1,1,1,2-Tetrachloroethane	A	ND	0.010	mg/Kg	1	10/22/07 13:51
1,1,2,2-Tetrachloroethane	A	ND	0.0050	mg/Kg	1	10/22/07 13:51
Tetrachloroethene	A	ND	0.0050	mg/Kg	1	10/22/07 13:51
Toluene	A	ND	0.0050	mg/Kg	1	10/22/07 13:51
1,1,1-Trichloroethane	A	ND	0.0050	mg/Kg	1	10/22/07 13:51
1,1,2-Trichloroethane	A	ND	0.0050	mg/Kg	1	10/22/07 13:51
Trichloroethene	A	ND	0.0050	mg/Kg	1	10/22/07 13:51
Trichlorofluoromethane	A	ND	0.010	mg/Kg	1	10/22/07 13:51
Vinyl Acetate	A	ND	0.010	mg/Kg	1	10/22/07 13:51
Vinyl chloride	A	ND	0.010	mg/Kg	1	10/22/07 13:51
m,p-Xylene	A	ND	0.0050	mg/Kg	1	10/22/07 13:51
o-Xylene	A	ND	0.0050	mg/Kg	1	10/22/07 13:51
Total Xylenes	A	ND	0.0050	mg/Kg	1	10/22/07 13:51
Surr: 4-Bromofluorobenzene	S	81.0	57.4-135	%REC	1	10/22/07 13:51
Surr: Dibromofluoromethane	S	95.6	63.5-139	%REC	1	10/22/07 13:51
Surr: 1,2-Dichloroethane-d4	S	103	51.7-162	%REC	1	10/22/07 13:51
Surr: Toluene-d8	S	103	66.6-143	%REC	1	10/22/07 13:51

CORROSIVITY BY PH		Method: SW9045C	Prep Date/Time:	Analyst: RPL		
pH	A	9.0	0.1	pH Units	1	10/26/07 08:30





**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

NA	=	Not Analyzed	N/A	=	Not Applicable			
mg/L	=	Milligrams per Liter (ppm)	ug/L	=	Micrograms per Liter (ppb)	cfu	=	Colony Forming Unit
mg/Kg	=	Milligrams per Kilogram (ppm)	ug/Kg	=	Micrograms per Kilogram (ppb)	ng/L	=	Nanograms per Liter (ppt)
U	=	Undetected						
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)						
B	=	Detected in the associated Method Blank at a concentration above the routine PQL/RL						
b	=	Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL						
D	=	Surrogate recoveries are not calculated due to sample dilution						
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)						
E	=	Value above quantitation range						
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time						
I	=	Matrix Interference						
R	=	RPD outside accepted recovery limits						
S	=	Spike recovery outside recovery limits						
Surr	=	Surrogate						
DF	=	Dilution Factor	RL	=	Reporting Limit	ST	=	Sample Type
						MDL	=	Method Detection Limit

**SAMPLE TYPES**

A	=	Analyte
I	=	Internal Standard
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

**QC SAMPLE IDENTIFICATIONS**

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"	OPR	=	Ongoing Precision and Recovery Standard
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"			
LCS	=	Laboratory Control Sample	LCS D	=	Laboratory Control Sample Duplicate			
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate			
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank			
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification			
PDS	=	Post Digestion Spike	SD	=	Serial Dilution			

**CERTIFICATIONS**

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

**MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)**

Baltimore Division - Baltimore, MD	Kentucky Division - Louisville, KY	New Castle Division - New Castle, PA
Camp Hill Division - Camp Hill, PA	Kentucky Division (Sat) - Evansville, IN	Pittsburgh Division - Warrendale, PA
Camp Hill Division (SC) - Pittston, PA	Kentucky Division (Sat) - Lexington, KY	Richmond Division - Richmond, VA
Chicagoland Division - Merrillville, IN	Kentucky Division (Sat) - Paducah, KY	South Carolina Division - New Ellenton, SC
Chicagoland Division (SC) - Indianapolis, IN	Knoxville Division - Maryville, TN	South Jersey Division - Turnersville, NJ
Corona Division - Corona, CA	Massachusetts Division - Marlborough, MA	Southern Headquarters - Poquoson, VA
Erie Division - Erie, PA	Microbac Corporate Office - Wexford, PA	Southern Testing Division - Wilson, NC
Fayetteville Division - Fayetteville, NC	Microbac NY - Cortland Office - Cortland, NY	Southern Testing Division (Sat) - Greensboro, NC
Hauser Division - Boulder, CO	Microbac NY - Waverly Office - Waverly, NY	Venice Division - Venice, FL



**COOLER INSPECTION**

**Date:** Wednesday, October 31, 2007

Client Name **Environmental Quality Manage**

Date / Time Received: **10/22/2007 8:10:00 AM**

Work Order Number **ME0710896**

Received by: **MH**

Checklist completed by DPP | 10/22/2007 8:43:55 AM

Reviewed by RJM | 10/22/2007 3:40:45 PM

Carrier name: Client Delivered

- After-Hour Arrival? Yes  No
- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody included sufficient client identification? Yes  No
- Chain of custody included sufficient sample collector information? Yes  No
- Chain of custody included a sample description? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Chain of custody identified the appropriate matrix? Yes  No
- Chain of custody included date of collection? Yes  No
- Chain of custody included time of collection? Yes  No
- Chain of custody identified the appropriate number of containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Chain of custody identified the appropriate preservatives (if preserved)? Yes  No
- Samples properly preserved? Yes  No

If No, adjusted by? \_\_\_\_\_ Date/Time \_\_\_\_\_

- Chain of custody included the requested analyses? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Samples received on ice? Yes  No

Container/Temp Blank temperatures Cooler Temp  
1 19 °C

VOA vials for aqueous samples have zero headspace? No VOA vials submitted  Yes  No

**ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.**

General Comments:

Sample ID	Client Sample ID	Comments
ME0710896-01A	Back Fill	

ME0710896  
 Plating Engineering / West Allis, WI  
 Aaron Roski  
 EQM - CINCINNATI  
 10/29/2007  
 RJM

# Microbac®

Samples Submitted to:  250 West 84th Drive  
 Merrillville, IN 46410  
 Tel: 219-769-8378  
 Fax: 219-769-1664

5713 West 85th Street  
 Indianapolis, IN 46278  
 Tel: 317-872-1375  
 Fax: 317-872-1379

**Chain of Custody Record**  
 Number 80016

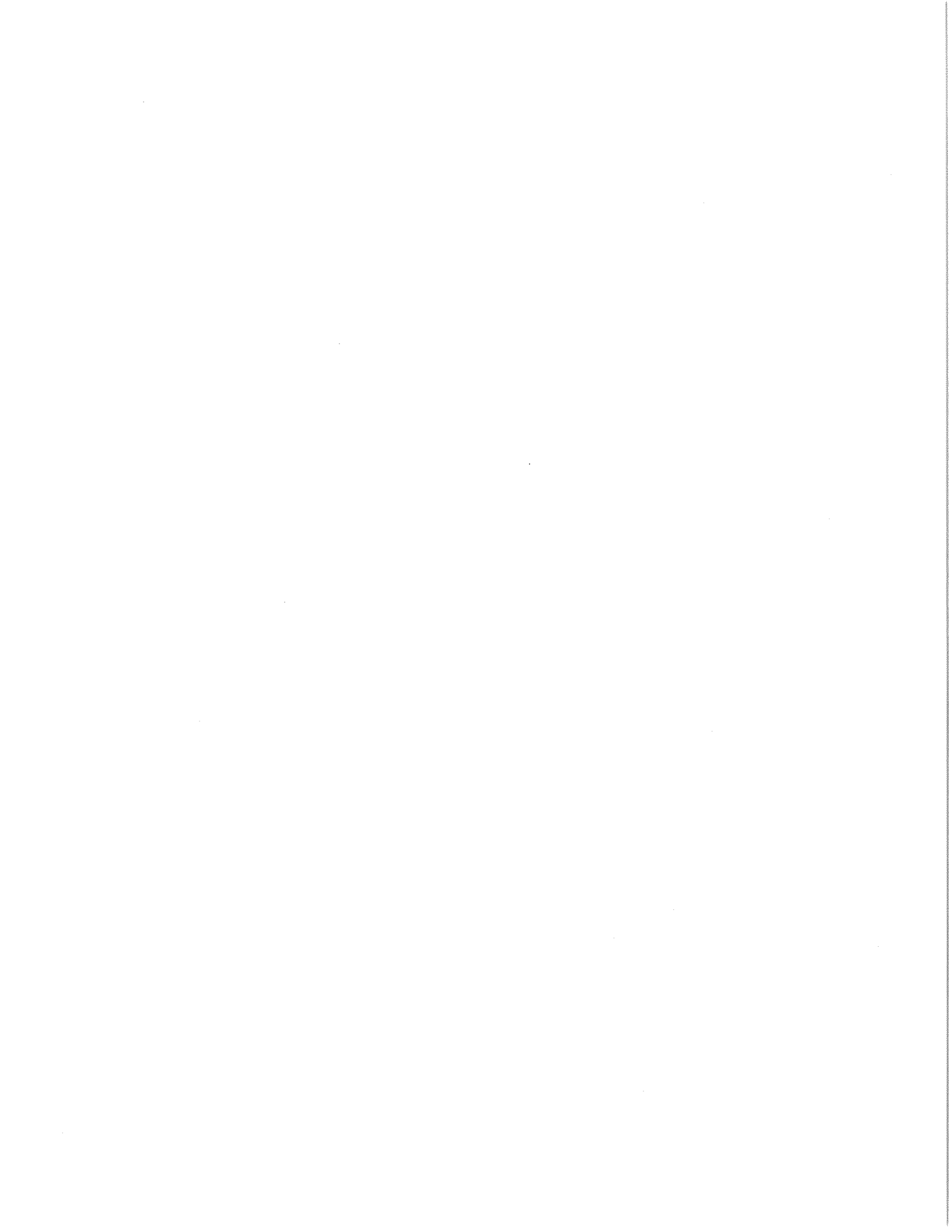
Instructions on back

Client Name <u>Environments &amp; Quality Ma</u>		Project <u>Plating Engineering</u>		Turnaround Time		Report Type	
Address <u>1800 East 40th Bl</u>		Location <u>West Allis, WI</u>		<input checked="" type="checkbox"/> Routine (7 working days)		<input type="checkbox"/> Results Only <span style="float:right"><input type="checkbox"/> Level II</span>	
City, State, Zip <u>Cincinnati, OH 45240</u>		PO #		<input type="checkbox"/> RUSH* (notify lab)		<input type="checkbox"/> Level III <span style="float:right"><input type="checkbox"/> Level III CLP-like</span>	
Contact <u>Eric Corbin</u>		Compliance Monitoring? <input type="checkbox"/> Yes(1) <input type="checkbox"/> No		_____ (needed by)		<input type="checkbox"/> Level IV <span style="float:right"><input type="checkbox"/> Level IV CLP-like</span>	
Telephone # <u>513-825-7500</u>		(1) Agency/Program				<input type="checkbox"/> EDD	
Sampled by (PRINT) _____		Sampler Signature _____		Sampler Phone # _____			
Send Report via <input type="checkbox"/> Mail <input type="checkbox"/> Telephone <input type="checkbox"/> Fax (fax #) _____				<input type="checkbox"/> e-mail (address) _____			

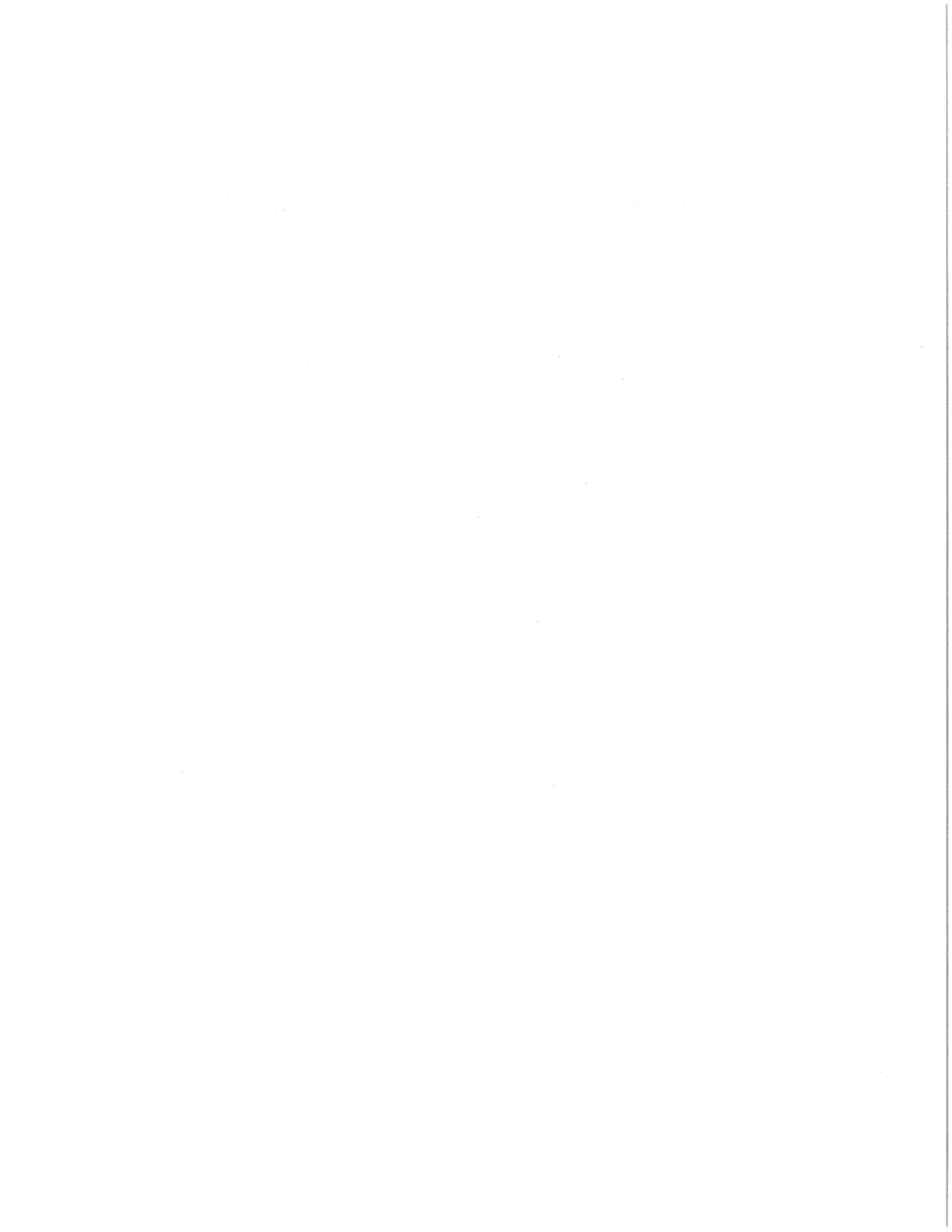
\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)  
 \*\* Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types **	For Lab Use Only															
Buck Fin	S	X			10-19-07	1430	4	N	PCB	VOC	SVOC	P4												0710896 OIA

Possible Hazard Identification <input type="checkbox"/> Hazardous <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Radioactive		Sample Disposition <input type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive		
Comments	Relinquished By (signature) <i>[Signature]</i>	Date/Time 10-22-07/810	Received By (signature) <i>[Signature]</i>	Date/Time 10-22-07 0810
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time
Sample temperature upon receipt in degrees C = _____				



ATTACHMENT B6  
ALLEY SOIL DISPOSAL CHARACTERIZATION SAMPLING RESULTS





October 02, 2007

Aaron Roski  
Environmental Quality Management, Inc.  
1800 Carillon Boulevard  
Cincinnati, OH 45240

Work Order No.: ME0709A85

RE: Plating Engineering / West Allis, WI  
Dear Aaron Roski:

Microbac Laboratories, Inc. received 1 sample on 9/27/2007 9:30:00 AM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,  
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "R. Misiunas", written over the printed name.

Ronald J. Misiunas  
Client Services Manager

Enclosures



---

**WORK ORDER SAMPLE SUMMARY****Date:** *Tuesday, October 02, 2007*

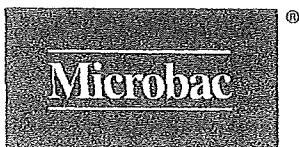
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**CLIENT:** Environmental Quality Management, Inc.  
**Project:** Plating Engineering / West Allis, WI  
**Lab Order:** ME0709A85

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
ME0709A85-01A	Alley Sample 6		9/26/2007 11:30:00 AM	9/27/2007





# ANALYTICAL RESULTS

Date: Tuesday, October 02, 2007

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Alley Sample 6  
**Sample Description:**  
**Sample Matrix:** Soil

**Work Order / ID:** ME0709A85-01  
**Collection Date:** 09/26/07 11:30  
**Date Received:** 09/27/07 09:30

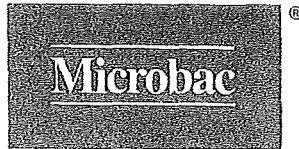
Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TCLP MERCURY** Method: SW1311/7470A Prep Date/Time: 09/28/07 09:00 Analyst: SAA  
 Mercury A ND 0.0010 mg/L 1 09/28/07 14:12

**TCLP METALS** Method: SW1311/6010B Prep Date/Time: 09/28/07 08:50 Analyst: AVC  
 Arsenic A ND 0.010 mg/L 1 09/28/07 20:02  
 Barium A 0.53 0.50 mg/L 1 09/28/07 20:02  
 Cadmium A 0.017 0.0020 mg/L 1 09/28/07 20:02  
 Chromium A 4.4 0.0030 mg/L 1 09/28/07 20:02  
 Lead A 0.18 0.0075 mg/L 1 09/28/07 20:02  
 Selenium A 0.040 0.030 mg/L 1 09/28/07 20:02  
 Silver A ND 0.010 mg/L 1 09/28/07 20:02

**TCLP SEMI-VOLATILE ORGANICS** Method: SW1311/8270C Prep Date/Time: 09/29/07 12:01 Analyst: ALS  
 1,4-Dichlorobenzene A ND 0.050 mg/L 1 10/01/07 13:50  
 2,4,5-Trichlorophenol A ND 0.050 mg/L 1 10/01/07 13:50  
 2,4,6-Trichlorophenol A ND 0.050 mg/L 1 10/01/07 13:50  
 2,4-Dinitrotoluene A ND 0.050 mg/L 1 10/01/07 13:50  
 2-Methylphenol A ND 0.050 mg/L 1 10/01/07 13:50  
 3/4-Methylphenol A ND 0.050 mg/L 1 10/01/07 13:50  
 Hexachlorobenzene A ND 0.050 mg/L 1 10/01/07 13:50  
 Hexachlorobutadiene A ND 0.050 mg/L 1 10/01/07 13:50  
 Hexachloroethane A ND 0.050 mg/L 1 10/01/07 13:50  
 Nitrobenzene A ND 0.050 mg/L 1 10/01/07 13:50  
 Pentachlorophenol A ND 0.25 mg/L 1 10/01/07 13:50  
 Pyridine A ND 0.050 mg/L 1 10/01/07 13:50  
 Total Cresol A ND 0.050 mg/L 1 10/01/07 13:50  
 Surr: Nitrobenzene-d5 S 79.1 10-121 %REC 1 10/01/07 13:50  
 Surr: 2-Fluorobiphenyl S 73.7 5.58-109 %REC 1 10/01/07 13:50  
 Surr: Terphenyl-d14 S 70.1 10-130 %REC 1 10/01/07 13:50  
 Surr: Phenol-d5 S 81.4 10-100 %REC 1 10/01/07 13:50  
 Surr: 2-Fluorophenol S 79.7 10-84.7 %REC 1 10/01/07 13:50  
 Surr: 2,4,6-Tribromophenol S 90.0 10-120 %REC 1 10/01/07 13:50

**TCLP VOLATILES** Method: SW1311/8260B Prep Date/Time: 09/27/07 16:00 Analyst: BRR  
 Benzene A ND 0.050 mg/L 10 09/29/07 11:55  
 2-Butanone A ND 0.10 mg/L 10 09/29/07 11:55  
 Carbon tetrachloride A ND 0.050 mg/L 10 09/29/07 11:55  
 Chlorobenzene A ND 0.050 mg/L 10 09/29/07 11:55  
 Chloroform A ND 0.050 mg/L 10 09/29/07 11:55  
 1,1-Dichloroethene A ND 0.050 mg/L 10 09/29/07 11:55  
 1,2-Dichloroethane A ND 0.050 mg/L 10 09/29/07 11:55



**ANALYTICAL RESULTS**

**Date:** Tuesday, October 02, 2007

**Client:** Environmental Quality Management, Inc.  
**Client Project:** Plating Engineering / West Allis, WI  
**Client Sample ID:** Alley Sample 6  
**Sample Description:**  
**Sample Matrix:** Soil

**Work Order / ID:** ME0709A85-01  
**Collection Date:** 09/26/07 11:30  
**Date Received:** 09/27/07 09:30

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
----------	----	--------	----	------	-------	----	----------

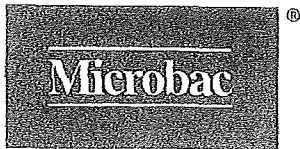
TCLP VOLATILES		Method: SW1311/8260B	Prep Date/Time: 09/27/07 16:00		Analyst: BRR		
1,4-Dichlorobenzene	A	ND	0.050	mg/L	10	09/29/07 11:55	
Tetrachloroethene	A	ND	0.050	mg/L	10	09/29/07 11:55	
Trichloroethylene	A	ND	0.050	mg/L	10	09/29/07 11:55	
Vinyl chloride	A	ND	0.050	mg/L	10	09/29/07 11:55	
Surr: 4-Bromofluorobenzene	S 103		76.9-116	%REC	10	09/29/07 11:55	
Surr: Dibromofluoromethane	S 112		78.4-125	%REC	10	09/29/07 11:55	
Surr: Toluene-d8	S 97.9		81.4-122	%REC	10	09/29/07 11:55	
Surr: 1,2-Dichloroethane-d4	S 120		74.2-136	%REC	10	09/29/07 11:55	

IGNITABILITY (OPEN CUP FLASHPOI)		Method: D92-90 MOD	Prep Date/Time:		Analyst: ALL		
Ignitability	A	>170	30	°F	1	09/28/07 12:00	

CORROSIVITY BY PH		Method: SW9045C	Prep Date/Time:		Analyst: RJC		
pH	A	7.8	0.1	pH Units	1	10/01/07 14:55	

CYANIDE, REACTIVE		Method: SW7.3.3.2_R3	Prep Date/Time: 10/01/07 11:00		Analyst: RPL		
Reactive Cyanide	A	ND	18	mg/Kg	1	10/01/07 13:45	

SULFIDE, REACTIVE		Method: SW7.3.4.2_R3	Prep Date/Time: 10/01/07 11:00		Analyst: SMA		
Reactive Sulfide	A	ND	9.2	mg/Kg	1	10/01/07 15:52	



**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

NA = Not Analyzed	N/A = Not Applicable		
mg/L = Milligrams per Liter (ppm)	ug/L = Micrograms per Liter (ppb)	cfu = Colony Forming Unit	
mg/Kg = Milligrams per Kilogram (ppm)	ug/Kg = Micrograms per Kilogram (ppb)	ng/L = Nanograms per Liter (ppt)	
U = Undetected			
J = Analyte concentration detected between RL and MDL (Metals / Organics)			
B = Detected in the associated Method Blank at a concentration above the routine PQL/RL			
b = Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL			
D = Surrogate recoveries are not calculated due to sample dilution			
ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)			
E = Value above quantitation range			
H = Analyte was prepared and/or analyzed outside of the analytical method holding time			
I = Matrix Interference			
R = RPD outside accepted recovery limits			
S = Spike recovery outside recovery limits			
Surr = Surrogate			
DF = Dilution Factor	RL = Reporting Limit	ST = Sample Type	MDL = Method Detection Limit

**SAMPLE TYPES**

A = Analyte
I = Internal Standard
S = Surrogate
T = Tentatively Identified Compound (TIC, concentration estimated)

**QC SAMPLE IDENTIFICATIONS**

MBLK = Method Blank	ICSA = Interference Check Standard "A"	OPR = Ongoing Precision and Recovery Standard
DUP = Method Duplicate	ICSAB = Interference Check Standard "AB"	
LCS = Laboratory Control Sample	LCSD = Laboratory Control Sample Duplicate	
MS = Matrix Spike	MSD = Matrix Spike Duplicate	
ICB = Initial Calibration Blank	CCB = Continuing Calibration Blank	
ICV = Initial Calibration Verification	CCV = Continuing Calibration Verification	
PDS = Post Digestion Spike	SD = Serial Dilution	

**CERTIFICATIONS**

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

**MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)**

Baltimore Division - Baltimore, MD	Kentucky Division - Louisville, KY	New Castle Division - New Castle, PA
Camp Hill Division - Camp Hill, PA	Kentucky Division (Sat) - Evansville, IN	Pittsburgh Division - Warrendale, PA
Camp Hill Division (SC) - Pittston, PA	Kentucky Division (Sat) - Lexington, KY	Richmond Division - Richmond, VA
Chicagoland Division - Merrillville, IN	Kentucky Division (Sat) - Paducah, KY	South Carolina Division - New Ellenton, SC
Chicagoland Division (SC) - Indianapolis, IN	Knoxville Division - Maryville, TN	South Jersey Division - Turnersville, NJ
Corona Division - Corona, CA	Massachusetts Division - Marlborough, MA	Southern Headquarters - Poquoson, VA
Erie Division - Erie, PA	Microbac Corporate Office - Wexford, PA	Southern Testing Division - Wilson, NC
Fayetteville Division - Fayetteville, NC	Microbac NY - Cortland Office - Cortland, NY	Southern Testing Division (Sat) - Greensboro, NC
Hauser Division - Boulder, CO	Microbac NY - Waverly Office - Waverly, NY	Venice Division - Venice, FL



**COOLER INSPECTION**

**Date:** Tuesday, October 02, 2007

Client Name **Environmental Quality Manage**

Date / Time Received: **9/27/2007 9:30:00 AM**

Work Order Number **ME0709A85**

Received by: **DPP**

Checklist completed by **DPP** | **9/27/2007 11:06:51 AM**

Reviewed by **RJM** | **9/29/2007 8:21:02 AM**

Carrier name: **FedEx**

- After-Hour Arrival? Yes  No
- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody included sufficient client identification? Yes  No
- Chain of custody included sufficient sample collector information? Yes  No
- Chain of custody included a sample description? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Chain of custody identified the appropriate matrix? Yes  No
- Chain of custody included date of collection? Yes  No
- Chain of custody included time of collection? Yes  No
- Chain of custody identified the appropriate number of containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Chain of custody identified the appropriate preservatives (if preserved)? Yes  No
- Samples properly preserved? Yes  No

If No, adjusted by? \_\_\_\_\_ Date/Time \_\_\_\_\_

- Chain of custody included the requested analyses? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Samples received on ice? Yes  No

Container/Temp Blank temperatures Cooler Temp  
1 4 °C

VOA vials for aqueous samples have zero headspace? No VOA vials submitted  Yes  No

**ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.**

General Comments:

Sample ID	Client Sample ID	Comments
ME0709A85-01A	Alley Sample 6	

ME0709A85 EQM - CINCINNATI  
 Plating Engineering / West Allis, WI  
 Aaron Roski

EQ 1800 Carillon Blvd  
 Cincinnati, OH 45240  
 (513) 825-7500

Environmental Quality Management, Inc  
 Chain of Custody Record

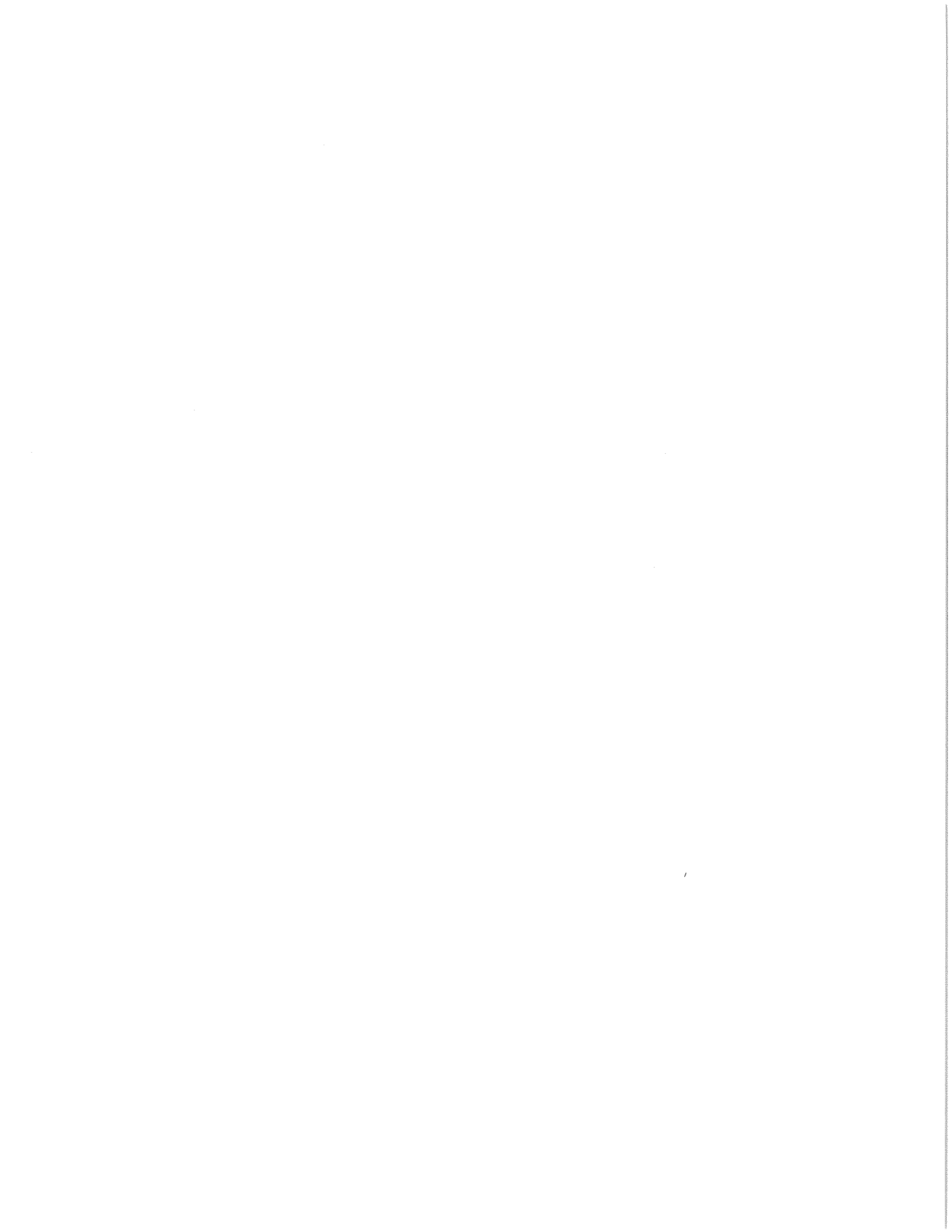
**RUSH**

COC Tracking: EQ-13344

Project No. 030228.0080		Project Name USEPA/Plating Engineering			No. of Containers	TESTS							0709A85	
Samplers/Affiliation: (Print Name and Sign) Mark Douglas / [Signature]				Lab P.O. No:		TAL	TCLP	META	TCLP	VOA	TCLP	SVOA		PH
Sample ID:	Date	Time	Description/Matrix:	Sample Volume / Comments										
Borrow pit 1	9-26-07	1030	Soil	8.2	2	X								
Borrow pit 2	9-26-07	1030	Soil	8.2	2	X								
Alley Sample	9-26-07	1130	Soil	16.2	4		X	X	X	X	X	X	Y	OIA
Relinquished by: (Signature) [Signature]		Date 9-26-07	Time 1200	Received by: (Signature) [Signature]		Date	Time	Ship To:						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time							
Relinquished by: (Signature)		Date	Time	Received by: (Signature) [Signature]		Date 9-27-07	Time 0930	Airbill Number						
Reporting/QA Requirements:		Turn Around Time (EXACT DUE DATE): RUSH TAL 9-28-07 TCLP 10-2-07		Report To: Eric Corbin Mark Douglas			Chain of Custody Seal Numbers							

Distribution: White - Accompanies Shipment Pink - Project Files Yellow - Laboratory File

4°C



ATTACHMENT B7

PERSONNEL AND WORK AREA ASBESTOS SAMPLING RESULTS







EMSL Analytical, Inc.

2444 W. George Street, Chicago, IL 60618

Phone: (773) 313-0999 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: Mark Douglas
Environmental Quality Management Inc.
1928 South 62nd Street
West Allis, WI 53219

Fax: (414) 321-8482 Phone: (414) 321-8480
Project: USEPA Plating Engineering

Customer ID: ENVQ51A
Customer PO: 30228.0080
Received: 10/15/07 10:00 AM
EMSL Order: 260704421
EMSL Proj:
Analysis Date: 10/17/2007
Report Date: 10/17/2007

Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Table with columns: Sample, Location, Sample Date, Volume, Fibers, Fields, LOD (fib/cc), Fibers/mm², Fibers/cc, Notes. Contains 12 rows of sample data with various fiber counts and LOD values.

Analyst(s)

Kathy Rhee (18)

Handwritten signature of Sandra Sobrino

Sandra Sobrino, Laboratory Manager or other approved signatory

Limit of detection is 7 fibers/mm². The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report may not be reproduced, except in full, without written approval by EMSL. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Analysis performed by EMSL Chicago NVLAP-200399-0, TDH License #30-0289.



EMSL Analytical, Inc.

2444 W. George Street, Chicago, IL 60618

Phone: (773) 313-0099 Fax: (773) 313-0139 Email: [chicago@emsl.com](mailto:chicago@emsl.com)

Attn: **Mark Douglas**  
**Environmental Quality Management Inc.**  
**1928 South 62nd Street**  
**West Allis, WI 53219**

Fax: (414) 321-8482 Phone: (414) 321-8480  
Project: **USEPA Plating Engineering**

Customer ID: ENVQ51A  
Customer PO: 30228.0080  
Received: 10/15/07 10:00 AM  
EMSL Order: 260704421

EMSL Proj:  
Analysis Date: 10/17/2007  
Report Date: 10/17/2007

### Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/mm <sup>2</sup>	Fibers/cc	Notes
BB223538		10/12/2007	60.00	8	100	0.045	10.2	0.065	
260704421-0011									
BB223507		10/12/2007	1260.00	7	100	0.002	8.92	0.003	
260704421-0012									
BB223716		10/12/2007							Overloaded
260704421-0013									
BB223510		10/12/2007	45.00	10	100	0.060	12.7	0.11	
260704421-0014									
BB223494		10/12/2007							Overloaded
260704421-0015									
BB223504		10/12/2007	60.00	59	100	0.045	75.2	0.48	
260704421-0016									
BB223550		10/12/2007							Overloaded
260704421-0017									
BB223497		10/12/2007							Overloaded
260704421-0018									

No discernable field blank sample(s) submitted with this sample set.

Analyst(s)

Kathy Rhee (18)

Sandra Sobrino, Laboratory Manager  
or other approved signatory

Limit of detection is 7 fibers/mm<sup>2</sup>. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report may not be reproduced, except in full, without written approval by EMSL. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Analysis performed by EMSL Chicago NVLAP-200399-0, TDH License #30-0289.

200704421



# Chain of Custody

## Asbestos Lab Services

EMSL Analytical, Inc.  
2444 W. George Street  
Chicago, IL 60618

Phone: (773) 313-0099  
Fax: (773) 313-0139  
<http://www.emsl.com>

Please print all information legibly.

<b>Company:</b>	Environmental Quality Management Inc.	<b>Bill To:</b>	Environmental Quality Management Inc.
<b>Address1:</b>	1928 S. 62nd St.	<b>Address1:</b>	1800 Carillon Blvd.
<b>Address2:</b>		<b>Address2:</b>	
<b>City, State:</b>	West Allis, Wisconsin	<b>City, State:</b>	Cincinnati, Ohio
<b>Zip/Post Code:</b>	53219	<b>Zip/Post Code:</b>	45240
<b>Country:</b>	USA	<b>Country:</b>	USA
<b>Contact Name:</b>	Mark Douglas	<b>Attn:</b>	Eric Corbin
<b>Phone:</b>	414.321.8480	<b>Phone:</b>	513.825.7500
<b>Fax:</b>	414.321.8482	<b>Fax:</b>	513.825.7495
<b>Email:</b>	MDouglas@eqm.com	<b>Email:</b>	ECorbin@eqm.com
<b>EMSL Rep:</b>		<b>P.O. Number:</b>	30228.0080
<b>Project Name/Number:</b> USEPA Plating Engineering			

MATRIX			TURNAROUND			
<input checked="" type="checkbox"/> Air	<input type="checkbox"/> Soil	<input type="checkbox"/> Micro-Vac	<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours	<input type="checkbox"/> Same Day or 12 Hours*	<input type="checkbox"/> 24 Hours (1 day)
<input type="checkbox"/> Bulk	<input type="checkbox"/> Drinking Water		<input checked="" type="checkbox"/> 48 Hours (2 days)	<input type="checkbox"/> 72 Hours (3 days)	<input type="checkbox"/> 96 Hours (4 days)	<input type="checkbox"/> 120 Hours (5 days)
<input type="checkbox"/> Wipe	<input type="checkbox"/> Wastewater		<input type="checkbox"/> 144+ hours (6-10 days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

\*12 hours (must arrive by 11:00a.m. Mon -Fri), Please Refer to Price Quote

<p><b>PCM - Air</b></p> <input checked="" type="checkbox"/> NIOSH 7400(A) Issue 2: August 1994 <input type="checkbox"/> OSHA w/TWA <input type="checkbox"/> Other:	<p><b>TEM Air</b></p> <input type="checkbox"/> AHERA 40 CFR, Part 763 Subpart E <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II	<p><b>TEM WATER</b></p> <input type="checkbox"/> EPA 100.1 <input type="checkbox"/> EPA 100.2 <input type="checkbox"/> NYS 198.2
<p><b>PLM - Bulk</b></p> <input type="checkbox"/> EPA 600/R-93/116 <input type="checkbox"/> EPA Point Count <input type="checkbox"/> NY Stratified Point Count <input type="checkbox"/> PLM NOB (Gravimetric) NYS 198.1 <input type="checkbox"/> NIOSH 9002: <input type="checkbox"/> EMSL Standard Addition:	<p><b>TEM BULK</b></p> <input type="checkbox"/> Drop Mount (Qualitative) <input type="checkbox"/> Chatfield SOP - 1988-02 <input type="checkbox"/> TEM NOB (Gravimetric) NYS 198.4 <input type="checkbox"/> EMSL Standard Addition:	<p><b>TEM Microvac/Wipe</b></p> <input type="checkbox"/> ASTM D 5755-95 (quantative method) <input type="checkbox"/> Wipe Qualitative
<p><b>SEM Air or Bulk</b></p> <input type="checkbox"/> Qualitative <input type="checkbox"/> Quantitative	<p><b>PLM Soil</b></p> <input type="checkbox"/> EPA Protocol Qualitative <input type="checkbox"/> EPA Protocol Quantitative <input type="checkbox"/> EMSL MSD 9000 Method fibers/gram	<p><b>XRD</b></p> <input type="checkbox"/> Asbestos <input type="checkbox"/> Silica NIOSH 7500
<p><b>OTHER</b></p> <input type="checkbox"/>		



# Chain of Custody

## Asbestos Lab Services

4421

**EMSL Analytical, Inc.**  
 2444 W. George Street  
 Chicago, IL 60618

Phone: (773) 313-0099  
 Fax: (773) 313-0139  
<http://www.emsl.com>

Please print all information legibly.

Client Sample # (s) \_\_\_\_\_ Total Samples #: 18

Relinquished: Maria Salerno Date: 10-12-2007 Time: \_\_\_\_\_

Received: (Signature) Date: 10-15-07 Time: 10am fx

Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
BB223541	ARBA SAMPLE	
BB223522	WORK AREA	
BB223536	WORK AREA	
BB223516		
BB223523		
BB223532		
BB223520		
BB223521		
BB223496		
BB223547		
BB223538		
BB223507		
BB223716		
BB223510		
BB223494		
BB223504		
BB223550		

SAMPLES ACCEPTED FOR ANALYSIS  
 BY EMSL ANALYTICAL, INC.  
 CHICAGO, IL.

WORK AREA  
 BB223497

# Onyx Special Services, Inc.

Germantown Office

N.104 W.13275 Donges Bay Rd

Phone: (262)236-8130 Fax: (262)236-8140

## Air Sample Log

KL

<b>Job Name:</b> EPA		<b>Date:</b> 10-9-7		<b>Address:</b> 1928 S 62 ST.							
<b>Job Number:</b> 490741A07-			<b>Sample taken by:</b> Jason Hernandez				<b>Signature:</b> Jason Hernandez				
Sample Number	Type	Location or Workers Name/SS#	Pump ID	Activity	Resp used	Neg. pres.	Flow Rate	Start Time	Stop Time	Ttl. Min.	F/OC
BB223541	P	Jose Mendez	#3	3	↗	N/A	1.5	2:30pm	6:30pm		
BB223522	A	Work Area 1	#3	3	↗	N/A	9.0	2:pm	6:30pm		
BB223536	EX	Jose Mendez	#3	3	"	"	1.5	2:pm	2:30pm		

TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other

RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: Jason Hernandez Received by: \_\_\_\_\_  
 Date: 10-9-7 Date: \_\_\_\_\_  
 Notify results FAX: (262)236-8130 Phone/pager \_\_\_\_\_

# Onyx Special Services, Inc.

Germantown Office

N.104 W.13275 Donges Bay Rd

Phone: (262)236-8130 Fax: (262)236-8140

## Air Sample Log

Job Name: <u>EPA</u>			Date: <u>10-10-07</u>		Address: <u>1928 S 62 ST</u>						
Job Number: <u>490741A07-</u>			Sample taken by: <u>Jason Hernandez</u>			Signature: <u>Jason HR</u>					
Sample Number	Type	Location or Workers Name/SS#	Pump ID	Activity	Resp used	Neg. pres.	Flow Rate	Start Time	Stop Time	Ttl. Min.	F/OC
BB223516	EX	Jesus Vilma	#3	1	HF	Yes	1.5	7:AM	7:30AM		
BB223523	P	Jesus Vilma	#3	1			1.5	7:30AM	6:PM		
BB223532	EX	Carlos Iovoriega	#4	1			2.0	7:AM	7:30AM		
BB223520	P	Carlos Iovoriega	#4	1			2.0	7:30AM	8:PM		
BB223521	A	Work area	#3	1			9.0	7:AM	6:PM		

TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM  
 ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other  
 RESPIRATOR TYPE: HF-Half Face PAPR SAR

Taken by: Jason Hernandez  
 Date: 10-10-07  
 Notify results FAX: (262)236-8130

Received by: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone/pager: \_\_\_\_\_

# Onyx Special Services, Inc.

Germantown Office

N.104 W.13275 Donges Bay Rd

Phone: (262)236-8130 Fax: (262)236-8140

## Air Sample Log

Job Name: <u>EPA</u>			Date: <u>10-11-07</u>		Address: <u>1928 S 62 ST</u>						
Job Number: <u>490741A7-</u>			Sample taken by: <u>Jesson Hernandez</u>			Signature: <u>[Signature]</u>					
Sample Number	Type	Location or Workers Name/SS#	Pump ID	Activity	Resp used	Neg. pres.	Flow Rate	Start Time	Stop Time	TL MSL	F/OC
BB223496	EX	Victor Figueroa	#3	1,7	Yes	N/A	1.5	7:AM	7:30pm		
BB223547	P	Victor Figueroa	#3	1,7			1.5	7:30AM	6:PM		
BB223538	EX	Jose Mendez	#4	1,7			2.0	7:AM	7:30AM		
BB223507	P	Jose Mendez	#4	1,7			2.0	7:30AM	6:PM		
BB223716	A	Work area	#13	1,7			9.0	7:AM	6:PM		

TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM  
 ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup 8-Floor Tile 10-Patch and Repair 7-Other Transit  
 RESPIRATOR TYPE: HF Half Face PAPR SAR

Taken by: Jesson Hernandez Received by: \_\_\_\_\_  
 Date: 10-11-07 Date: \_\_\_\_\_  
 Notify results FAX: (262)236-8130 Phone/pager \_\_\_\_\_

# Onyx Special Services, Inc.

Germantown Office

N.104 W.13275 Donges Bay Rd

Phone: (262)236-8130 Fax: (262)236-8140

## Air Sample Log

<b>Job Name:</b> EPA		<b>Date:</b> 10-12-7		<b>Address:</b> 1928 S 62 ST.							
<b>Job Number:</b> 490741A07			<b>Sample taken by:</b> Jason Hernandez					<b>Signature:</b> Jason Hernandez			
Sample Number	Type	Location or Workers Name/SS#	Pump ID	Activity	Resp used	Neg. pres.	Flow Rate	Start Time	Stop Time	Ttl. Min.	F/OC
BB223510	EX	Ty Rogers	#3	7	Yes	Y/A	1.5	7:AM	7:30AM		
BB223494	P	Ty Rogers	#3	7			1.5	7:30AM	2:PM		
BB223504	EX	Jason Hernandez	#4	7			2.0	7:AM	7:30AM		
BB223550	P	Jason Hernandez	#4	7			2.0	7:30AM	2:PM		
BB223497	A	Work area	#13	7	↓	↓	9.0	7:AM	2:PM		

TYPE: A=Area Sample P=Personal BG=Background FB=Field Blank B=Baseline C=Clearance EX=Excursion PCM TEM

ACTIVITIES: 1-Glovebag 3-Setup 4-Gross removal 5-Cleanup ~~7-Other~~ 10-Patch and Repair 7-Other Transite

RESPIRATOR TYPE: HE-Half Face PAPR SAR

Taken by: Jason Hernandez Received by: \_\_\_\_\_

Date: 10-12-7 Date: \_\_\_\_\_

Notify results FAX: (262)236-8130 Phone/pager \_\_\_\_\_