

TARGETED BROWNFIELDS ASSESSMENT

FORMER MIRRO PLANT No. 9

**1512 WASHINGTON STREET
MANITOWOC, WISCONSIN**

Prepared for:



**United States Environmental Protection Agency
Region 5**

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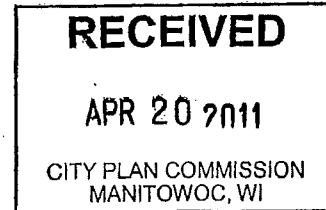
...A Report
Former Mirro Plant #9
Manitowoc, Wisconsin

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Title and Approval Page

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Targeted Brownfields Assessment Report
Targeted Brownfields Assessment
Former Mirro Plant #9
Manitowoc, Wisconsin
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EXECUTIVE SUMMARY

AES completed this TBA field investigation in accordance with EPA guidance and an EPA-approved QAPP dated October 2010 and a Site Specific Sampling and Analysis Plan dated October 2010. TBA activities included the advancement soil borings installation of monitoring wells, in order to determine if groundwater has been impacted by historic property usage. In addition, subsurface soil samples were collected to determine extent of contaminants of concern. The select soil and groundwater samples were analyzed for VOCs, PAHs, TAL metals, and PCBs.

In general, the recent sampling events confirm and expand on the results of the 2009 AECOM limited phase II investigation.

The following observations were noted with respect to the soil:

- Throughout the project area, fill material was encountered to a depth of 4 to 8 feet below grade. In MW-16A, fill material was encountered to a depth of approximately 16 feet.
- The dominant subsurface material consisted of fine sand and silt in varying proportions. Clay layers were encountered in several soil borings just below the fill, and in MW-16A, a clay layer was observed from 16 to 24 feet below grade (the only soil boring to exceed 16 feet)
- Fill material was documented to contain, brick, cement, wood, and ash.
- Analytical results for arsenic exceeded WDNR criteria for WDNR Generic RCLs for Industrial Direct Contact Pathway for all samples except SB-12.
- Trichloroethylene was the only compound detected above WDNR Generic RCL criteria Direct Pathway and Volatile Inhalation).
- Non-industrial Direct Exposure Pathway criteria were exceeded in five soil samples for PAH compounds (pyrogenic).
- PCB compounds were not detected in soil samples, except for SB-10, which contained Arochlor 1260 at 0.27 mg/kg (the laboratory MRL).

Based on soil analytical data, remedial actions may be warranted to address potential risks from direct exposure to Site compounds of concern. Most of the impact is in the fill material located beneath the building floor to a depth of approximately 6 feet.

The following observations were noted with respect to the groundwater:

- Light non-aqueous phase liquid was observed in MW-18 and SB-5 at thicknesses of 0.86 and 0.21 feet, respectively.
- Groundwater elevation contours indicate groundwater flow is towards the north at an average gradient of 0.02 ft/ft.
- Laboratory analytical data for VOCs and PAH compounds were below applicable WDNR Enforcement Standards and Preventive Action Limits for all samples.
- Iron and manganese were the only metals detected above WDNR criteria.

Based on groundwater analytical data, VOC and PAH compounds are either below MRL or detected at very low concentrations and are not likely to be impacted by fill material, and it is not anticipated they will create an off-site / downgradient issue.

This TBA Report confirms and documents that Site environmental media (soil and groundwater) have been impacted by VOCs, PAHs, metals, and PCBs in soil. No WDNR exceedances were detected for VOCs, or PAHs in groundwater. However, historical data indicate lead, trichloroethene and cis-1,2-dichloroethene have exceeded NR 140 Enforcement and/or Preventive Action Limits in groundwater.

The remedial strategies are based on subsurface site conditions and the assumption that the site building will be removed in order for redevelopment to occur. In all three scenarios, the Site would be listed on WDNR GIS (geographical information system) data base that describes locations with contaminants remaining above state cleanup levels.

Remedial Alternative #1: No Action – Environmental Land Use Restriction

An environmental land use restriction (ELUR) could be filed for the property to restrict future land use. Restrictions would require a soil management plan in the case of future building development and limit potential uses to industrial/commercial activities. However, it assumes future use of the Property will be limited. Building construction and foundation installation would likely result in the removal of impacted soil, which would have to be managed. This alternative was retained as viable, being the most economically conservative.

Remedial Alternative #2: Limited Excavation and Engineering Controls

Construction debris and fill material underlie the building to a depth of 4 to 6 feet below grade. This material has the bulk of the VOC, PAH and metal impacts above WDNR criteria. Excavation to a depth of approximately 6 feet would remove most of the material. “Hot Spots” containing NAPL would be excavated to eliminate NAPL migration and exposure pathways. Clean fill would then be used to bring the Site up to street grade. An ELUR would likely not be required for this alternative. The major cost associated with this alternative is the excavation and disposal of a large volume of soil (and replacement clean fill). Approximately 40,000 tons of soil may have to be removed. Due to the high volume of soil that would have to be removed (and replaced), this scenario was not considered feasible.

Remedial Alternative #3: Engineering Controls with Limited Excavation

Targeted soil excavation to remove light phase non-aqueous phase liquid (LNAPL) would minimize the volume of soil for excavation and disposal. In this alternative, additional delineation of subsurface NAPL would be required, likely after the demolition of the building. LNAPL distribution may be controlled by building foundations. Subsequent to the removal of the soil, an engineered barrier of clean fill (or construction of a new building foundation or impervious surface) would be placed to remove the soil direct contact pathway. Up to 4,000 tons of soil would be removed during this alternative. An ELUR would be required to maintain the integrity of the engineered barrier. The cost for this alternative would include: excavation, loading, disposal, clean fill, laboratory sampling, oversight, reporting, and filing of the ELUR. This scenario is considered feasible.

Remedial Alternative #1 is considered to be the most cost effective and practical solution to remediating the subsurface for potential future development.

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LIST OF ACRONYMS

AES	Advanced Environmental Solutions, Inc.
ASTM	American Society of Testing Materials
ELUR	Environmental Land Use Restriction
ES	Enforcement Standard
HASP	Health and Safety Plan
NFG	National Functional Guidelines
PAH	Polycyclic Aromatic Hydrocarbon
PAL	Preventive Action Limit
PCB	Polychlorinated Biphenyl
PID	Photoionization Detector
PP	Priority Pollutants
ppb	Parts per Billion
ppm	Parts Per Million
PVC	Polyvinyl Chloride
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
QC	Quality Control
REC	Recognized Environmental Condition
RPD	Relative Percent Difference
SAP	Sampling and Analysis Plan
SDG	Sample Delivery Group
SSQAPP	Site Specific Quality Assurance Project Plan
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List (metals)
TBA	Targeted Brownfield Assessment
ug/l	Micrograms per liter (parts per million - aqueous)
ug/kg	Micrograms per kilogram (parts per million – soil)
TPH	Total Petroleum Hydrocarbon
US EPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound

1.0 PROJECT INTRODUCTION

On behalf of the United States Environmental Protection Agency (EPA) Region 5 and the City of Manitowoc, Wisconsin, Advanced Environmental Solutions, Inc. (AES) of Worcester, Massachusetts, prepared this Targeted Brownfields Assessment (TBA) Report for the Property located at 1512 Washington Street in Manitowoc, Wisconsin (the “Site” or “Property”). The Site location is depicted on the Locus Map in **Figure 1**. Site features are depicted on the Site Plan in **Figure 2**. This work is authorized under **EPA Contract No. EP-W-07-095 Task 13**. In addition, AES’ prime subcontractor, AECOM, provided technical support in the completion of this Project. Together, the team of AES and AECOM provided the services to complete this TBA Report.

TBA field activities were conducted in accordance with an EPA Region 5 – Sampling and Analysis Plan (SAP) and Site Specific Quality Assurance Project Plan (SSQAPP), submitted to the EPA on October 10, 2010. The purpose of this contract is to further evaluate the Property via a Supplemental Phase II investigation that will give the City of Manitowoc a better and more thorough understanding of the environmental conditions within and below the Mirro building’s footprint. In addition, this investigation provides information necessary to fulfill the requirements of the Wisconsin Administration Code (WAC) NR Chapter 716 Site Investigation and a WAC NR 722 Remedial Action Options Report. The procedures outlined in the SAP and SSQAPP ensure that the data collected meets the project objectives.

2.0 SITE HISTORY, SITE FEATURES, AND PREVIOUS SITE INVESTIGATIONS

2.1 Site History

The former Mirro manufacturing building is comprised of approximately 17 buildings, of various heights, and ages, coupled together as one structure. The existing structure was constructed in multiple phases between 1904 and 1927; however, several structures existed on the Property prior to 1904 and at least since 1883. From 1898 to 1986, the property was used to manufacture various aluminum products including aluminum cookware. Manufacturing at the subject Property ceased in 1986, although Mirro corporate and engineering offices were maintained on-site until 2001. The structure was vacated in 2001. Mirro was a division of the Newell Company, which subsequently became Newell-Rubbermaid.

2.2 Site Features

This section summarizes the features that are specific to the Site that is the subject of this TBA Report (**Figure 2**). **Figure 2A** shows historical sampling locations as depicted in the 2009 Phase II Site Assessment discussed in Section 2.3.

The Property is 3.72 acres in size and zoned heavy industrial. The structure occupies an entire city block between Washington and Franklin Streets, and 15th and 16th Streets. The Property is serviced by municipal water and sewer lines. Additionally, natural gas fired boilers provided steam heat to the building. Electrical service is also available at the Property through Manitowoc Public Utilities, although it has been disconnected.

Sidewalks and paved loading dock driveways comprise the remainder of the property. There are no vegetated areas visible. The Property is generally surrounded by mixed industrial, commercial and limited residential buildings.

The boiler room is located in the basement of the building, along the eastern (15th Street) side of the property. These boilers were fueled by natural gas, but previously fueled by coal or fuel oil.

Natural gas and water fire hydrant lines are also present on the subject parcel. Refer to **Figure 3** for the location of Site utilities.

2.3 Previous Environmental Investigations

Environmental investigations are summarized in the following section. **Figure 2A**, a 2009 Site Plan, presents the location of historical subsurface investigations at the Property.

STS Consultants, LLC, Phase I Environmental Site Assessment, June 2003

A Phase I ESA prepared by STS for Newell Rubbermaid Inc. was conducted in June of 2003. Results of the Phase I indicated several Recognized Environmental Conditions (RECs):

- A steam outlet located on the south end of Building C was used to steam-clean tools, equipment, and other heavily soiled, hard-to-clean items.
- Discolored, unpaved ground surfaces inside building C which were drain channels linked to color drains.
- An automatic anodizing room was formerly located on the east end of Building N. Chromic, phosphoric, sulfuric, nitric, and/or hydrochloric acid were used to anodize aluminum.
- Floors in portions of building K, L and M were observed to be stained and exposed subsurface areas were saturated with oil.
- Sanborn maps indicate that a tannery was formerly located on the property at the corner of Franklin Street and 15th Street.
- A former ethylene glycol heating coil system remains installed underneath the concrete walkway adjacent to the main entrance off Washington Street and still contains ethylene glycol.
- Thirteen (13) hydraulically operated elevators are in place where there is a potential for petroleum products or other hazardous substances to have impacted the subsurface.
- Concrete press pits formerly used to collect hydraulic oil were closed without documentation with potential to impact subsurface.
- Seven (7) USTs were removed in 1988. Three (3) mineral spirits or kerosene tanks were removed from the west side; two (2) diesel tanks were removed from northwest corner, and two (2) mineral spirits tanks removed from east side. Releases were reported as a result of the tank removal activities.
- Four (4) 4,406 gallon fuel oil tanks were closed and abandoned in place on the east side of the Property in June 2001, however residual diesel range organic soil contamination remains near the tanks. Two (2) of the tanks were later removed.

Earth Science & Technology, LLC, Phase II Environmental Site Assessment, March 2006

The Phase II ESA prepared by EST for Mr. Kenneth Lemberger, was conducted in March 2005. Results of the Phase II are summarized below:

- The Wisconsin Departments of Commerce (WDOC) and the Wisconsin Department of Natural Resources (WDNR) closed each of the UST cases and concluded that no threat existed.
- A walk through confirmed that the 13 elevators were electric and not hydraulic and not an environmental condition.
- Two floor troughs were confirmed to be concrete lined and not earthen as reported.

- A review of the Sanborn maps shows the tannery had piles of bark. These tanneries used tannic acid processed from bark noted that the tannic acid is not hazardous.
- A utility tunnel surrounds much of the block and a substantial amount of oils have seeped into the tunnels particularly under Buildings L and M.
- A soil sample below the concrete trough in Building C contained toluene.
- DNR records document that there are exceedances of NR 140 Wisconsin Administrative Code groundwater standards on the east and west sides of the building.

AECOM (Formerly STS), Phase I Environmental Site Assessment, January 2009

AECOM completed a Phase I ESA for the City of Manitowoc, for the Property in January 2009, and documented 9 RECs. The RECs are discussed in detail in the Phase I and summarized below:

- Former Steam Cleaning Area and Aluminum Etching Room which historically used oils and other hazardous substances.
- Automatic Anodizing Room and a room to the north contained discolored soil. Sodium hydroxide, sodium gluconate, and sulfuric acids were some of the compounds used in this area.
- Stained floors with standing oil (Heavy Press Room). Soil sample collected from beneath the wooden floor had elevated levels of VOCs.
- Former tannery location, as shown on Sanborn Maps, which may have used degreasers and other hazardous materials to process animal hides.
- Ethylene glycol heating coil system used to melt ice on concrete entrance potential impact to the subsurface.
- Air compressor pits were closed without proper documentation of removal of hydraulic oil.
- Groundwater samples collected from temporary monitoring wells outside of the building indicated VOCs.
- PCB transformer area on the second floor with drums partially full of oil on the first and second floors.
- A sump area in the basement of Building C.

AECOM (Formerly STS), Phase II Environmental Site Assessment, June, 2009

Phase II activities were completed in 2009 by AECOM. AECOM conducted subsurface sampling to investigate each REC identified in the 2009 Phase I. A total of 12 soil borings were advanced using direct push technology. Five (5) of the soil borings were completed as temporary monitoring wells for groundwater sampling. Soil samples were collected between 2 to 6 feet below grade and submitted for laboratory analysis for metals, VOCs, PAHs, and PCBs.

- Hazardous substances, including PCB, petroleum, and chlorinated compounds were detected in the subsurface above WDNR standards. The following results were documented in the report.
- A slight sheen of product in GP-4, and benzo(a)pyrene was detected above standards in the soil sample.
- PCE and TCE were observed in soil and groundwater, with one sample (GP-2) exceeding NR140 Enforcement Standards for groundwater.
- PCB (Arochlor 1260) was detected in one (1) soil sample (GP-5 (2-4')) at 210 mg/kg.
- Benzene was detected in groundwater at 2.26 ug/l in GP-12, which is above NR140 Preventive Action Limits.

3.0 FIELD INVESTIGATION ACTIVITIES

This section summarizes the investigation activities conducted by AES and AECOM under the previously-approved October 2010 Sampling and Analysis Plan (SAP) and Site-Specific Quality Assurance Project Plan (SSQAPP).

As part of this TBA, a subsurface investigation was completed during the months of October and November 2010. Soil borings and monitoring wells were advanced to address the identified RECs and to determine if off-site groundwater migration of contaminants has occurred. Soil and groundwater samples were collected and submitted for laboratory analysis of identified compounds of concern. Additionally, out of scope sampling of suspected PCB transformer areas was conducted at the request of the EPA.

The analytical program detailed in the SAP was designed to assess the presence and levels of volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), and Target Analyte List (TAL) metals present in Site soils and/or groundwater, and provide details regarding investigation methods, and how activities were performed to meet the project goals of defining the nature and extent of contamination, and developing "order-of-magnitude" costs for Property remediation. Analysis of diesel range organics (DRO), and semi-volatile organic compounds (SVOCs) were not included in the original scope of work provided by the EPA for this project.

The rationale for collecting new and additional data as well as a summary of each environmental concern was presented in the SAP. The analytical data obtained from the investigation activities has been utilized in conjunction with data collected from previous investigation activities to characterize the extent and magnitude of subsurface degradation at the Property. During the investigation, the sampling activities were modified from the approved SAP, due to field conditions. Generally, the interior of the building precluded sampling in some of the proposed locations. A detailed account of the modifications with respect to soil and groundwater sampling is provided in **Table 1** and **Table 2**.

The methods and procedures used to complete the field investigation activities are documented in the SSQAPP in the Standard Operating Procedures.

3.1 Field Investigation Activities

Between October 19, 2010 and January 5, 2011 AECOM field personnel performed field activities in general conformance with EPA the approved SAP dated October 2010. However, the approved Site investigation scope was modified during the field activities due to field conditions. The attached **Table 1** and **Table 2** outline the deviations from the October 2010 SAP. In general the, following field activities were performed:

- Advanced 27 soil borings to depths ranging from 4.0 ft below ground surface (bgs) to 30 ft bgs.
- Installed four (4) NR 141 water table monitoring wells, which were screened from 5 to 15 feet bgs (Monitoring Wells MW-14, MW-15, MW-16, and MW-17).
- Installed one (1) piezometer, as a couplet to MW-16, screened from 25 to 30 feet bgs (MW-16A).
- Installed six 1-inch PVC temporary monitoring wells, which were screened from 2 to 12 ft bgs (TW-1 and TW-2) or 6 to 16 ft bgs (SB-5, MW-18, MW-19, and MW-20).
- Installed one 2-inch PVC temporary monitoring wells, which was screened 0 to 5 ft bgs (TW-5) in a hand auger boring.
- Collected soil samples from the soil borings.

- Completed a location and elevation survey of the NR 141 monitoring wells.
- Performed one (1) round of groundwater sampling and water level measurements of NR 141 monitoring wells. Recorded free-phase product measurements from temporary monitoring wells SB-5, and MW-18. Comment is correct delete twl 2
- Performed a grab sample of groundwater from each of the temporary monitoring wells.
- Collected a PCB wipe sample from the rim of a catch basin/ floor drain located in Dock Nos. 6 and 7.
- Collected a PCB oil sample from a drum located on the first and second floors, which were suspected of containing PCB transformer oil.

Locations of the monitoring wells, soil borings, and hand augers are depicted on the attached **Figure 3** and construction details are summarized in **Table 3**.

3.1.1 Soil Boring Advancement and Soil Sample Collection

Hollow-Stem Auger Soil Borings

Four soil borings (MW-14, MW-15, MW-16, MW-16A, and MW-17) were advanced on October 19 and 20, 2010, with a truck-mounted drilling rig using 4.25-inch inside-diameter, hollow-stem flight auger drilling techniques. These monitoring wells were installed on the outside of the Mirro Building, to determine groundwater flow direction and potential off-site migration of contaminants of concern. Soil samples were collected through the use of a hydraulic push probe. The probe samplers are open-tube design and measure approximately 1.5-inch diameter by 48 inches long. The sampler was hydraulically advanced in 4-foot intervals. To assist in removal of the soil sample and protect sample integrity, the samplers were fitted with a new 48-inch acetate liner prior to advancement of each 4-foot interval. To extract the soil sample, the liner was cut open using a razor blade. Soil samples were not collected from MW-16 due to the proximity to Boring MW-16A (total depth 30 feet).

Fill material was encountered during boring advancement to a depth of 4 to 8 feet below grade, below which fine grained sand and silt was encountered. A clay layer was encountered beneath the fill in SB-3 and SB-4 in the Heavy Press Room area. Soil boring logs are depicted in **Appendix A**.

Hydraulic Push Probes and Hand Augers

Twenty hydraulic push probes (SB-3 through SB-5 and SB-7 through SB-15, MW-18, MW-19, MW-20, TW-1, TW-2, and TW-4) were advanced on October 26 through 28, 2010. Soils were collected from the soil borings through the use of a hydraulic push probe four foot sampler. Soil Boring SB-6 was discontinued due to refusal at two different locations and TW-3 was not advanced because of a basement directly located underneath the proposed location. TW-4 encountered refusal at one location and then encountered refusal at 6 feet. A monitoring well was not installed at this location due to the refusal. SB-8 encountered refusal at two different locations and was then relocated towards the north end of the building.

Three hand augers (SB-1, SB-2, and TW-5) were advanced to a depth of 3.5 ft to 5.0 ft bgs in the basement of the building. All three hand augers encountered refusal due to fill material containing wood. Soil samples were collected every 2 feet from the hand augers.

Soil Sample Collection

Soil samples were collected from selected borings, visually characterized, and logged by AECOM personnel. The soil samples were divided into two portions. One portion was placed into appropriate laboratory sample containers and placed on ice for laboratory analysis. The remaining portion of the soil sample was placed in a clear sample bag that was sealed, warmed to room temperature, and shaken to maximize the release of organic vapors from the soil matrix. After approximately five minutes, the sample bag headspace was measured with a photoionization detector (PID) and the reading was recorded on the soil boring log. The soil sample from SB-4 was the only soil sample that exhibited a PID reading greater than 4 ppm.

Soil samples were described using the Unified Soil Classification System. WDNR Soil Boring Log Information Forms were prepared and are included in **Appendix A**.

Soil samples selected for laboratory analyses were placed in the appropriate laboratory supplied sample containers. The samples were placed in a cooler with ice and transported by laboratory courier under chain of custody to Test America (Synergy), Watertown, Wisconsin for analysis. The soil samples collected were tested in accordance with **Tables 1 and 2** of the Sampling and Analysis Plan. Analytes of concern include: volatile organic compounds (VOCs) by EPA Method 8260B, target analyte list (TAL) Metals by EPA Method 6010, PCBs by EPA Method 8082, polynuclear aromatic hydrocarbons (PAHs) by EPA method 8310, and mercury by EPA Method 7471A.

The laboratory analytical results for soil are summarized in **Table 4**. Copies of the laboratory analytical reports are included in **Appendix C**.

3.1.2 Monitoring Well Installation

Borings MW-14, MW-15, MW-16, and MW-17 were converted to NR 141 water table monitoring wells immediately following soil boring advancement (October 19 and 20, 2010). Boring MW-16A was converted to piezometer. The monitoring wells and piezometer were constructed of 2-inch diameter, Schedule 40 polyvinyl chloride (PVC) with slotted well screen (0.010-inch manufactured slots). Ten-foot sections of slotted well screen were installed to intersect the apparent groundwater table observed in the field in the water table wells. MW-16A had a five-foot sections of slotted well screen were installed from 25 to 30 feet bgs. A sand filter pack was placed in the annular space adjacent to the well screen to approximately 4 feet above the top of the screen, and the remainder of the annular space was filled with bentonite chips. The risers for the permanent wells were cut to size, and a well cap with a lock was placed on the riser. Flush-mounted protected steel casings were installed over the PVC pipe and concreted into the ground.

Fill material was encountered during boring advancement to a depth of 4 to 12 feet below grade, below which fine grained sand and silt was encountered. A clay layer was encountered beneath the fill in MW-14 (at 4-6 feet) and MW-16A (at 17-24 feet). Monitoring well construction diagrams are included with the monitoring well boring logs in **Appendix A**. Two geologic cross-sections were developed based on subsurface information collected during boring and monitoring well development. Cross-section A-A' (**Figure 4A**) traverses west to east from Washington to Franklin Streets, while cross-section B-B' (**Figure 4B**) traverses from South to north from 15th to 16th Streets.

The six hydraulic push probe borings were converted into temporary monitoring wells, screened from 2 to 12 ft bgs (TW-1 and TW-2) or 6 to 16 ft bgs (SB-5, MW-18, MW-19, and MW-20). The wells were constructed of 1-inch diameter PVC with a 10-foot section of slotted well screen (0.010-inch

manufactured slots) installed to intersect the apparent water table observed in the field. A 2-inch PVC temporary monitoring well, which was screened 0 to 5 ft bgs was installed in hand auger Boring TW-5. Following groundwater sampling, the temporary monitoring wells were abandoned in accordance with WDNR regulations (Chapters NR 111, NR 112, or NR 141 WAC). The monitoring well abandonment forms (“Well/Drillhole/Borehole Abandonment” Form) are included in **Appendix A**. Please note that the Site address is incorrectly listed on each abandonment form. The address listed is 1521 Washington Street instead of 1512 Washington Street.

Following installation, the monitoring wells were developed using a disposable bailer and the temporary wells were developed using a peristaltic pump. A location and elevation survey of the permanent monitoring well PVC well casings and ground surfaces at the monitoring well locations was completed on November 16, 2010. Monitoring Well Development Forms for the permanent monitoring wells are included in **Appendix D**.

3.1.3 Groundwater Sampling Collection

Groundwater samples were collected from Site monitoring wells on November 16 and 23, 2010. Groundwater samples were collected using a peristaltic pump equipped with a single section of polyethylene tubing connected to a single section of silicon tubing at each well. Before purging stagnant groundwater at each well, the depths to water and well bottom were measured to determine the casing volume. A minimum of one well volume was removed before the following field parameters were measured and recorded on field forms: groundwater pH, conductivity, temperature, dissolved oxygen, and turbidity. Each well was considered to be fully purged when the field parameters stabilized. The turbidity was stable when the groundwater was clear and the turbidity was less than 5 NTUs and within 10% of the three previous measurements. The remaining field parameters were stable when the final measurements were within 10% of the last three measurements. Groundwater samples were collected after at least 5 volumes of groundwater were removed from the well.

Groundwater grab samples were collected from the temporary monitoring wells via a peristaltic pump equipped with a single section of polyethylene tubing connected to a single section of silicon tubing at each well on November 23, 2010. Groundwater samples were collected after at least 5 volumes of groundwater were removed from the well or if the well went dry three times.

Groundwater samples were collected in appropriate laboratory containers, which contained preservatives based on the requested analytical parameter, then labeled and placed into an ice-filled cooler.

The groundwater samples were placed in laboratory-provided sample containers and transported by laboratory courier under chain of custody to Test America Laboratory in Watertown, Wisconsin. The groundwater samples collected were tested for VOCs by EPA Method 8260B, TAL Metals by EPA Method 6020, PAHs by EPA method 8310, and mercury by EPA Method 7470A. The laboratory analytical results are summarized in **Tables 5 A** through **D**. A copy of the laboratory analytical report is included in **Appendix C**.

Following the groundwater sampling of the temporary monitoring wells, the temporary wells were abandoned in accordance with WAC NR 141. The two-inch monitoring wells were not abandoned for possible future use in accordance with the SAP. The temporary monitoring well abandonment forms are attached in **Appendix D**.

3.1.4 PCB Sampling

At the request of the WDNR and EPA, on October 29, 2010, AECOM collected a grab sample of suspected transformer oil contained in drums located on the first and second floors of the building. The samples were collected from a drum located near each transformer via a drum thief. In addition, a wipe sample was collected from the rim of a catch basin located in loading dock Nos. 6 and 7 where a suspected release of transformer fluids may have occurred. Sample locations are shown on **Figure 3**. The collected samples were placed into the provided sample containers and transported by laboratory courier under chain of custody to Test America in Watertown, Wisconsin on October 29, 2010. The samples collected were tested for PCBs by EPA Method 8082. The laboratory analytical results are summarized in **Table 5**. Copies of the laboratory analytical reports are included in **Appendix C**.

3.1.5 Groundwater Level Measurements

On November 16 and 23, 2010, concurrent with groundwater sampling activities, all five NR141 monitoring wells were gauged to determine the depth to water. Gauging was conducted using an interface probe electronic water level indicator, capable of measuring the depth to water to within 0.01-foot. Depth readings were measured from the top of the PVC riser pipes. Water elevations and free-phased product measurements record from the temporary wells inside the building. Depth to groundwater ranged from 5.05 feet (MW-16A) to 13.81 feet (MW-18). Groundwater elevation across the Site was between 590.78 and 597.73 feet above sea level. Groundwater flow direction was observed to be to the north, with a calculated horizontal gradient of 0.02. Based on the well nest MW-16 and MW-16A, there is a downward hydraulic gradient (downward component of flow) with a vertical flow component of 0.17.

Nonaqueous liquid phase (NAPL) was encountered in MW-18 and SB-5. The product was described as light brown in color with a high viscosity. The product coated the interface probe making thickness difficult to measure and appeared to be similar to lubrication oil. A sample of the product was not collected. Groundwater samples could not be collected from the 1-inch diameter monitoring wells SB-5 and MW-18 due to the presence of a viscous NAPL. **Figure 5** shows the location of the NAPL with respect to the building interior.

The gauging results, with casing elevation, depth to groundwater, and groundwater elevation are summarized in **Table 5**.

3.1.6 Investigation Derived Waste

Soil cuttings and purged groundwater generated during the site investigation activities were placed into 55-gallon drums. The drums were removed by Chief Waste Treatment Corporation, Ripon, Wisconsin and transported to Waste Management Valley Trail landfill for disposal on January 5, 2011. Soil disposal records (Non-hazardous Waste Certification Manifest) are included in **Appendix E**.

4.0 REVIEW OF ANALYTICAL DATA

The field and analytical data from the subsurface investigation conducted by AES and AECOM are presented and discussed by media in this section. The results of the analyses conducted on each soil and groundwater sample are summarized in **Tables 4 and 5**. All analyses were performed in accordance with the Sampling and Analysis Plan. Deviations from the QC criteria established in the RCP methods, and any other items the laboratory manager felt were worthy of note, were discussed in the laboratory case

narratives that accompanied the data packages reviewed by AES. The complete laboratory data packages are provided in **Appendix C**.

4.1 Data Usability Assessment

Soil and groundwater samples were submitted to TestAmerica Laboratory in Watertown, Wisconsin for analysis according to the SAP and SSQAPP approved by the EPA. Analyses performed included: volatile organic compounds (by EPA Method 8260B), polycyclic aromatic hydrocarbons (PAH) compounds (by EPA Method 8310), Target Analyte List (TAL) metals (Methods 6010B and 7471A), and PCBs (method 8082). Field quality control (QC) samples were collected and submitted for laboratory analysis to monitor and evaluate laboratory and sampling performance as proposed in the SSQAPP. The field QC samples collected included trip blanks, field duplicates, and matrix spike/matrix spike duplicate samples.

AES conducted an analytical data usability evaluation for each soil and groundwater Sample Delivery Group (SDG). Analytical results were screened against the Generic Residual Contaminant Levels for soil and groundwater per the WDNR NR 720, WAC. The purpose of the evaluation is to determine whether analytical data is usable for direct comparison to WDNR soil and groundwater criteria and to support decisions regarding remediation of the site. A worksheet was completed for each SDG that includes an evaluation of sensitivity; accuracy/bias, precision, and whether rejection of any data is necessary, based on the Rejection Criteria (based on EPA data validation guidelines). The analytical worksheets are attached as **Appendix F**. The analytical data are summarized in **Tables 4** and **5**.

The data usability evaluation included the following:

Sensitivity:

- Comparison of Reporting Limits (RLs) to the WDNR Generic RCLs for direct contact, volatile inhalation and groundwater objectives for both non-industrial and industrial exposure pathways applicable to the Site to determine if non-detected results for analytes of interest may be used to conclude whether standards are exceeded.
- Examination of field and laboratory blank results to determine if there were detections that could result in qualification of field sample data, if validation were performed using EPA Region 5 guidelines.

Accuracy/Bias:

- Review of surrogate recoveries in all field samples to determine if there might be low or high bias for certain analytes in certain samples, and documentation of such instances.
- Review of site-specific MS/MSD sample recoveries and documentation of possible low or high bias for certain analytes, including consideration of whether potential bias should be applied to the MS/MSD sample only, or all associated field samples.
- Review of laboratory QC sample recoveries (Laboratory Control Samples and Laboratory Fortified Blanks) for possible low or high biases, and documentation of such instances.
- Bias may be introduced as a result of the laboratory analytical process: equipment calibration, matrix interference, MS/MSD (matrix spike/ matrix spike duplicate) samples, and method blanks may all impact the accuracy and bias of the results.

Precision:

- Calculation of Relative Percent Difference (RPD) for field duplicate results and evaluation of whether RPD criteria were met, or if poor precision is indicated for certain analytes.
- Review of RPDs for site-specific MS/MSDs and documentation of analytes where RPDs did not meet criteria.
- Review of RPDs for laboratory duplicates and documentation of analytes where RPDs did not meet criteria.

Rejection Criteria:

- Review of case narrative for possible holding time exceedances and other conditions that might indicate data should be rejected.
- Review of recoveries for situations where very low recoveries indicate that non-detected results should be rejected.

Soil

The results of the evaluation of the site soil analytical data indicate that the data analyses are acceptable for use. Review of the laboratory quality control reports indicates the soil data from Sampling Data Groups (SDG) WTK0160, WTK0161, WTK0162, WTK0163, WTK0164, WTK0653, WTK0859, and WTJ0823 meet the objectives of the sampling program.

Accuracy/Bias

Sample Data Group WTK0164 was analyzed one day past the 14-day holding time. The samples were correctly preserved with respect to temperature and preservatives. Although the data must be considered as biased low, because the holding was only exceeded by one day the data is qualified as low, and not rejected for the purposes of determining the magnitude and extent of contaminants. TCE and PCE were detected in two samples from this SDG (MW-20 and MW-20 DUP) above MRLs.

Data from SDG WTK0160, WTK0161, WTK0162, WTK0163, WTK0653, WTK0859, and WTJ0823 were accepted with respect to the National Functional Guidelines, although some indication of bias was detected in several SDG reports.

- Based on surrogate recovery outside of criteria, PAH data from SDGs WTK0163, WTK0164, and WTJ0823 is likely biased.
- PCB data from WTK0160 may be biased due to the dilution of the samples.

The complete Data Evaluation Worksheets for all samples are included in **Appendix F**.

Sensitivity

With respect to sensitivity, all results were deemed usable for this project, although SDGs WTK0161, WTK0162, WTK0163, WTK0164 and WTJ0823 had minor issues with the laboratory method reporting limits exceeding the WDNR Non-Industrial Direct Contact Pathway criteria for the following compounds:

- Vinyl Chloride,
- 1,2,3 trichloropropane, and
- 1,2 dibromo-3-chloropropane.

Although the MRL exceedance of the WNDNR Direct Contact Non-Industrial criteria is important, it is not considered significant with respect to decision making processes for the following reasons:

- None of the identified compounds were detected in any soil sample on Site,

- The Method Reporting Limits were only slightly greater than WDNR criteria (e.g. the vinyl chloride MRL of 45 ug/kg and WDNR criteria of 44.6 ug/kg)

Sample blanks collected in SDG WTK 0161, WTK0162, and WTK0163 had detections of the following metals in the field blanks and field sample data resulting in potentially high bias: antimony, thallium, barium, copper, lead, and zinc. Antimony, barium, copper and zinc were only detected in the blank for WTK0161. This sample data is considered to be usable for the decision making process as only barium and lead have direct contact exposure criteria and the WDNR limits are not exceeded for these metals.

SDG WTK0160 (PCBs) had no sensitivity issues.

Rejection

All soil data is considered acceptable for the decision making processes related to this project and no data has been rejected. See individual data Usability Reports attached as **Appendix F** for details.

The data evaluation worksheets for each soil and groundwater SDG are included in **Appendix F** and should be consulted for further details regarding the data evaluation procedure and rejection criteria. Overall, the data are usable to identify the nature and magnitude of the impacts associated with the Site and to determine preliminary remedial alternatives.

Groundwater

The results of the evaluation of the Site groundwater analytical data indicate that the data analyses are acceptable for use. However, there were some issues in SDG WTK0653 in which the data was deemed usable for project objectives, but with limitations. There were no data rejections in SDG 0859 for groundwater. Additional details on data usability are below and the complete QA/QC Worksheets are included as **Appendix F**.

Accuracy/Bias

With respect to accuracy/bias, the following results may be biased:

- The positive and non-detect results for potassium and silver may be biased low in all groundwater samples.
- The positive results for barium may be biased high in all groundwater samples.

Sensitivity

Non-detects for the following analytes are not usable for direct comparison to applicable WDNR Criteria, because reporting limits in one or more field samples exceeded criteria. However, the analytes are not key analytes of interest for this site. The analytes are listed below:

- 1,2-dibromo-3-chloropropane, and 1,2-dibromoethane in all groundwater samples.
- Zinc in MW-15, MW-16, MW-14, MW-19, TW-1 and TW-2.
- Iron in MW-19.

Precision

Due to a headspace noted in the Trip Blank (SDG WTK0653), any positive results in the trip blank would be biased low, however, no VOC compounds were detected above Method Detection Limits and the remaining samples in the SDG are deemed usable for project objectives.

No data have been rejected pursuant to EPA guidelines and the data is considered usable with the above limitations.

The data evaluation worksheets for each soil and groundwater SDG are included in **Appendix F** and should be consulted for further details regarding the data evaluation procedure and rejection criteria. Overall, the data are usable to identify the nature and magnitude of the impacts associated with the Site and to determine preliminary remedial alternatives.

4.2 Soil Analytical Results

TBA field activities focused on the collection of soil and groundwater analytical data, which was utilized to characterize the areas of known and /or suspected RECs and to delineate the horizontal and vertical extent of potential releases within each area. This section discusses soil quality at the Property.

Between October 18 and October 29, 2010, a total of 27 soil borings, some completed as monitoring wells, were advanced and 47 soil samples collected for laboratory analyses. Soil boring locations were located and sampled for compounds of concern in accordance with the SAP.

Duplicate and matrix spike/matrix spike duplicate samples were submitted for laboratory analyses identical to the original samples. The results of the original and duplicate analyses were used for data validation purposes as outlined in the SAP. The laboratory analytical results are summarized in **Table 4**. Copies of the laboratory analytical reports are included in **Appendix C**.

Volatile Organic Compounds

A total of 47 soil samples collected and submitted for analysis for VOCs via EPA Method 8260B. The following compounds were detected above laboratory MRLs in one or more samples.

1,2 Dichlorobenzene	Ethylbenzene	Methylene chloride
Toluene	Naphthalene	Tetrachloroethene
Trichloroethene	1,2,4-Trimethylbenzene	Total xylenes

Trichloroethylene was the only compound detected above WDNR Generic RCL criteria. TCE was detected above the non-industrial Direct Contact standard of 160 ug/kg and Volatile Inhalation standard of 14 ug/kg in: MW-20 (and MW-20 Dup) at 270 ug/kg (and 340 ug/kg), SB-4 at 170 ug/kg, SB-3 at 380 ug/kg, and SB-14 at 200 ug/kg. In addition to the samples listed above, TCE concentrations exceeded only the WDNR Volatile Inhalation non-residential standards in SB-8 at 47 ug/kg, SB-11 (3-4') at 47 ug/kg, SB -11 (6.5-8'), and MW-19 at 120 ug/kg.

Methylene chloride was detected in most samples associated with SDG WTK0163. Methylene chloride was also detected in the Trip Blank associated with this SDG and is most likely a laboratory contaminant. This data is considered to be biased (as discussed in the Data Usability Section). None of the detected concentrations exceeded any WDNR criteria.

VOC laboratory analytical results are summarized in **Table 4**.

Polycyclic Aromatic Hydrocarbon Compounds

A total of 8 soil samples were collected for laboratory analysis of polycyclic aromatic hydrocarbon (PAH) compounds from the subsurface. Sample depth ranged from 2 to 8 feet below grade. Most of the samples were collected from beneath the concrete slab within the building at 2 to 4 feet below grade. All samples

were collected from non-native fill material as documented in the boring logs in **Appendix A**. The collected soil samples were analyzed for SVOCs via EPA Method 8310. PAH compounds were detected above laboratory MDLs in all soil samples except for MW-17 (2-4’).

Commonly detected compounds included the following pyrogenic polycyclic aromatic hydrocarbon (PAH) compounds as shown in the table below.

Acenaphthene	Chrysene
Acenaphthylene	Dibenzo(a,h)anthracene
Anthracene	Fluoranthene
Benzo(a)anthracene	Fluorene
Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene
Benzo(b)fluoranthene	Naphthalene
Benzo(g,h,i)perylene	Phenanthrene
Benzo(k)fluoranthene	Pyrene

The soil sample from MW-15 (2-4’), located off-site across 15th Street exhibited the highest concentration of PAH compounds. Non-industrial Direct Exposure Pathway criteria were exceeded in MW-15(2-4’), MW-16A(2-4’), SB-8(6.5-8), SB-3(2-4’), and SB-4(3.5-4’) for the some or all of the following compounds:

- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Benzo(g,h,i)perylene
- Dibenzo(a,h)anthracene
- Indeno(1,2,3-cd)pyrene

PAH laboratory analytical results are summarized in **Table 4**.

Target Analyte List Metals

The collected soil samples were analyzed for Target Analyte List (TAL) metals via EPA Methods 6010B and EPA Method 7471A (mercury). A total of 11 soil samples, including one duplicate, were submitted for laboratory analysis to TestAmerica.

TAL metals were detected above laboratory MDLs for nearly all metals. Detected concentrations were compared to Wisconsin DNR NR 140 Direct Contact criteria for Non-industrial and Industrial exposure pathways. Lead was detected above the respective MRL, but below the non-industrial standards. Arsenic exceeded non-industrial standards for Enforcement Standards and Preventive Action Limits in all samples except SB-12 (5-7’). All other metals were below WDNR criteria.

Laboratory analytical results for metals are summarized in **Table 3**.

Polychlorinated Biphenyls (PCBs)

As proposed in the SAP, a total of 12 soil samples (including duplicates) were submitted for laboratory analysis. The soil samples were collected from soil borings advanced between October 26 and 29, 2010.

Samples were collected under the concrete slab of the Mirro building at depths ranging from 1.5 to 8 feet below grade. All analytical results for the soil samples were below method detection limits, except for a single detection of arochlor 1260 in sample MB-SB-10 (3-4 ft), which had a detection of 0.27 ppm (method detection limit was 0.27 ppm). This detection is well below Wisconsin DNR regulatory standards of 1 ppm, as stated in the Remediation and Redevelopment policy.

Table 4 summarizes the laboratory analytical results.

4.3 Groundwater Analytical Results

This section discusses the results of the groundwater investigation. TBA field activities focused on the collection of groundwater analytical data from ten permanent and temporary monitoring wells installed on the Site. Groundwater analytical data was utilized to determine if the compounds of concern had migrated to and impacted the groundwater underlying the Site. A total of 12 groundwater samples were collected and submitted for analytical results for the following parameters: VOCs, dissolved TAL metals, and PAH compounds. Samples were collected in accordance with AES field SOP # 011 (EPA SOP GW-0001, Low Flow Purging and Sampling). The laboratory analytical results are summarized in **Table 5**. Copies of the laboratory analytical reports are included in **Appendix C**. Samples were collected from Site monitoring wells, along with duplicate samples, matrix spike/matrix spike duplicate samples, equipment blanks and trip blanks.

Volatile Organic Compounds

A total 12 groundwater samples (including two duplicate samples) were collected and submitted for laboratory analysis. The collected groundwater samples were analyzed for VOCs via EPA Method 8260B. The VOC concentrations were compared to WAC, NR 140.10, Public Health Groundwater Quality Standards for Enforcement Standards (ES) and Preventive Action Limits (PAL). Methylene chloride was detected in a trip blank associated with the sampling event (Sample Data Group WTK0859). The following samples were considered biased high in the Data Evaluation Worksheet: MW-14, MW-20, MW-20DUP, TW-2, and GP-12. Samples from MW-19 and TW-1 are considered valid data points. The levels of methylene chloride detected in the above samples are greater than the PAL and ES (only MW-19 and TW-1), however, these results are likely the result of cross-contamination based on the trip blank results.

In addition to the methylene chloride results, there were limited detections of VOC compounds above the laboratory MRL and below ES and PAL criteria. Specifically:

- Benzene in GP-12 at 1.3 ug/l,
- Cis 1,2 Dichloroethene in MW-16 at 2.9 ug/l,
- Methyl tert butyl ether in MW-15 at 0.59 ug/l, and
- Trichloroethene in MW-19 and TW-2 at 0.36 ug/l and 0.31 ug/l, respectively.

All other compounds were not detected above the laboratory MDLs. VOC laboratory analytical results are summarized in **Table 5**.

Polycyclic Aromatic Hydrocarbon Compounds

Three groundwater samples were submitted for analysis for polycyclic aromatic hydrocarbon (PAH), also known as polynuclear aromatics (PNA) compounds by EPA Method 8310. All samples collected were below the laboratory Method Reporting Limits for ES and PAL Action Levels.

Groundwater analytical data is summarized in **Table 5**.

Target Analyte List Metals

The collected groundwater samples were analyzed for TAL metals via EPA Methods 6010B and EPA Method 7471A (mercury). A total of 9 groundwater samples (including one duplicate) were analyzed by TestAmerica Laboratory.

A total of 23 metals were subject to analysis. The metals concentrations were compared to WAC, NR 140.10, Public Health Groundwater Quality Standards for ES and PAL. Manganese exceeded ES/PAL in all groundwater samples except from temporary well TW-1. There are no Public Health standards for dissolved iron, however, the Public Welfare standards for iron were exceeded in all samples except MW-19. The iron concentration in MW-19 was below the Method Reporting Limit of 150 ug/L (which is also the PAL). TAL metals laboratory analytical results are summarized in **Table 5**. The remaining groundwater samples were below NR140 standards for dissolved metals.

4.4 Transformer Oil PCB Sampling

On October 24, 2010, three samples were collected for laboratory analysis for polychlorinated biphenyls (PCB) by EPA Method 8082. The sampling was a change of scope from the SAP, and was approved by the EPA. Samples were collected from a drum in the first floor transformer area, a drum in the second floor transformer area, and a surface swipe from a storm drain. The results indicate the liquid in the drum contain high concentrations of PCB Arochlor 1260. Specifically, the first floor drum contained 460,000 mg/kg and the second floor drum contained 500,000 mg/kg of Arochlor 1260. No other PCB congeners were detected above the method reporting limit. The sample from the catch basin indicated a concentration of 7,600 total micrograms (total ug).

Laboratory analytical report is attached as **APPENDIX C** and summarized in **Table 4**.

5.0 SUMMARY OF TBA FINDINGS

AES completed this TBA field investigation in accordance with EPA guidance and an EPA-approved SSQAPP and SAP dated October 2010 as prepared by AES. TBA activities included the advancement soil borings installation of monitoring wells, in order to determine if groundwater has been impacted by historic property usage. In addition, subsurface soil samples were collected to determine extent of contaminants of concern. The select soil and groundwater samples were analyzed for VOCs, PAHs, TAL metals, and PCBs.

In general, the recent sampling events confirm and expand on the results of the 2009 AECOM limited phase II investigation.

5.1 Subsurface Soil

The following observations were noted with respect to the soil:

- Throughout the project area, fill material was encountered to a depth of 4 to 8 feet below grade. In MW-16A, fill material was encountered to a depth of approximately 16 feet.
- The dominant subsurface material consisted of fine sand and silt in varying proportions. Clay layers were encountered in several soil borings just below the fill, and in MW-16A, a clay layer was observed from 16 to 24 feet below grade (the only soil boring to exceed 16 feet)
- Fill material was documented to contain, brick, cement, wood, and ash.

- Analytical results for arsenic exceeded WDNR criteria for WDNR Generic RCLs for Industrial Direct Contact Pathway for all samples except SB-12.
- Trichloroethylene was the only compound detected above WDNR Generic RCL criteria Direct Exposure Pathway and Volatile Inhalation).
- Non-industrial Direct Exposure Pathway criteria were exceeded in five soil samples for PAH compounds (pyrogenic).
- PCB compounds were not detected in soil samples, except for SB-10, which contained Arochlor 1260 at 0.27 mg/kg (the laboratory MRL).

Based on soil analytical data, remedial actions may be warranted to address potential risks from direct exposure to Site compounds of concern. Most of the impact is in the fill material located beneath the building floor to a depth of approximately 6 feet.

5.2 Groundwater

The following observations were noted with respect to the groundwater:

- Light non-aqueous phase liquid was observed in MW-18 and SB-5 at thicknesses of 0.86 and 0.21 feet, respectively.
- Groundwater elevation contours indicate groundwater flow is towards the north at an average gradient of 0.02 ft/ft.
- Hydraulic conductivity testing was not included in the scope of work, and a groundwater flow velocity has not been calculated.
- Laboratory analytical data for VOCs and PAH compounds were below applicable WDNR ES and PAL for all samples.
- Iron and manganese were the only metals detected above WDNR criteria.

Based on groundwater analytical data, VOC and PAH compounds are either below MRL or detected at very low concentrations and are not likely to be impacted by fill material, and it is not anticipated they will create an off-site / downgradient issue.

In summary, based on the collected groundwater data, impacted groundwater is not migrating off-site and remedial actions are not warranted to eliminate risk to human health and the environment.

6.0 PRELIMINARY REMEDIAL ALTERNATIVES EVALUATION

This TBA Report confirms and documents that Site environmental media (soil and groundwater) are impacted by VOCs, PAHs, metals, and PCBs in soil. No WDNR exceedances were detected for VOCs, or PAHs in groundwater. However, historical data indicate lead, trichloroethene and cis-1,2-dichloroethene have exceeded NR 140 ES and/or PAL in groundwater. The remedial strategies are based on subsurface site conditions and the assumption that the site building will be removed in order for redevelopment to occur. No costs are provided for the demolition and disposal of building materials, which may include asbestos and PCB impacted waste. Based on the concentrations of compounds detected, no active remediation system is proposed (groundwater pump and treat, soil vapor extraction, etc.). In all three (3) scenarios, the Site would be listed on WDNR GIS (geographical information system) data base that describes locations with contaminants remaining above state cleanup levels.

A discussion of likely remedial strategies and order of magnitude costs are provided below.

6.1 Remedial Alternatives

6.1.1 Remedial Alternative #1: No Action – Environmental Land Use Restriction

An environmental land use restriction (ELUR) could be filed for the Property to restrict future land use. Restrictions could require a soil management plan in the case of future building development and limit potential uses to industrial/commercial (as opposed to residential, day care, and public recreational uses). However, it assumes future use of the property will be limited. Building construction and foundation installation would likely result in the removal of impacted soil, which would have to be managed. This alternative was retained as viable, being the most economically conservative. Cost for this alternative would consist of reporting and filing of the ELUR: approximately \$10,000

6.1.2 Remedial Alternative #2: Limited Excavation and Engineering Controls

Construction debris and fill material underlie the building to a depth of four (4) to six (6) feet below grade. This material has the bulk of the VOC, PAH and metal impacts above WDNR criteria. Excavation to a depth of approximately six (6) feet would remove most of the material. “Hot Spots” containing NAPL could be excavated to eliminate NAPL migration and exposure pathways. Clean fill would then be used to bring the Site up to street grade. An ELUR would likely not be required for this alternative. The major cost associated with this alternative is the excavation and disposal of a large volume of soil (and replacement clean fill). Approximately 40,000 tons of soil may have to be removed. However, additional subsurface delineation may be able to reduce the volume of soil necessary for removal.

Due to the high volume of soil that would have to be removed (and replaced), this scenario was not considered feasible. However, the cost for this alternative would include: excavation, loading, disposal, clean fill, laboratory sampling, oversight, reporting and filing of the ELUR (approximately \$90/ton). Estimated cost: \$3.6MM.

6.1.3 Remedial Alternative #3: Engineering Controls with Limited Excavation

Targeted soil excavation to remove light phase non-aqueous phase liquid (LNAPL) would minimize the volume of soil for excavation and disposal. In this alternative, additional delineation of subsurface NAPL would be required, likely after the demolition of the building. LNAPL distribution may be controlled by building foundations. Subsequent to the removal of the soil, an engineered barrier of clean fill (or construction of a new building foundation or impervious surface) would be placed to remove the soil direct contact pathway. Up to 4,000 tons of soil could be removed during this alternative. An ELUR would likely be required to maintain the integrity of the engineered barrier. The cost for this alternative would include: excavation, loading, disposal, clean fill, laboratory sampling, oversight, reporting and filing of the ELUR (approximately \$90/ton). Estimated cost: \$360,000.

This scenario is considered to be a feasible alternative.

7.0 GENERAL QUALIFICATION

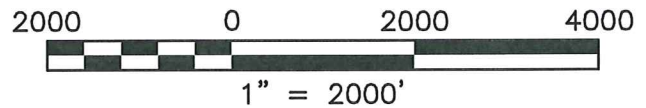
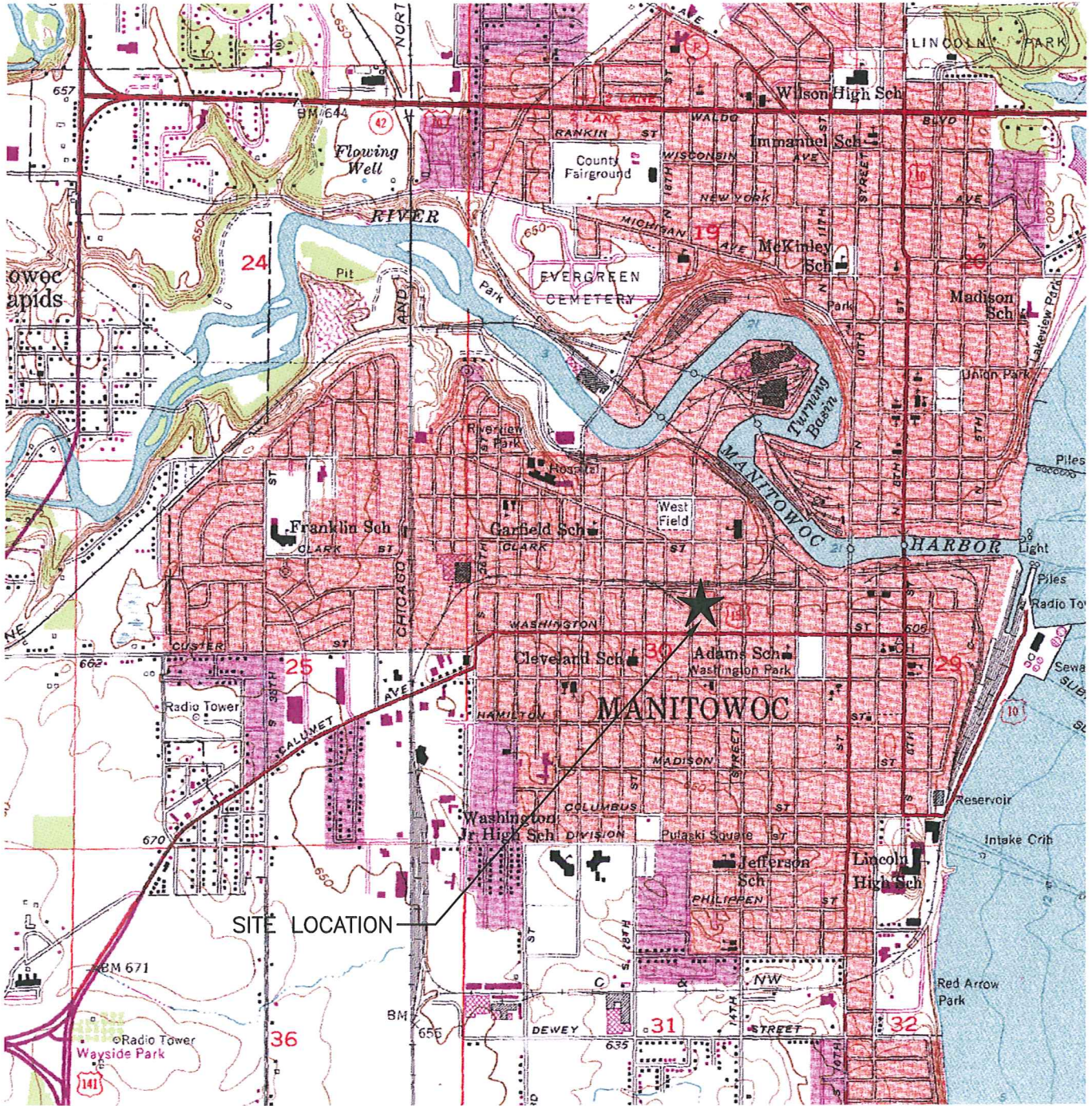
The environmental sampling conducted at the Site was undertaken to assess subsurface conditions in selected areas of the Property. Factual information regarding operations, conditions, regional geology and hydrogeology, and test data completed throughout the site investigation were obtained in part from outside agents and third parties. Because some facts stated in this report are subject to professional

interpretation, they could result in differing conclusions. In addition, the findings and conclusions in this report are based on various quantitative factors as they existed on or near the date during which the fieldwork was completed.

8.0 REFERENCES

STS Consultants, LLC, Phase I Environmental Site Assessment, June 2003
Earth Science & Technology, LLC, Phase II Environmental Site Assessment, March 2006
AECOM (Formerly STS), Phase II Environmental Site Assessment, June, 2009
AECOM (Formerly STS), Phase I Environmental Site Assessment, January 2009
Advanced Environmental Solutions, Sampling and Analysis Plan / Site Specific Quality Assurance Project Plan, Former Mirro Building, October 2010
Wisconsin Administrative Code, NR 140, Groundwater Quality
Wisconsin Administrative Code, NR 720, Soil Cleanup Standards

FIGURES



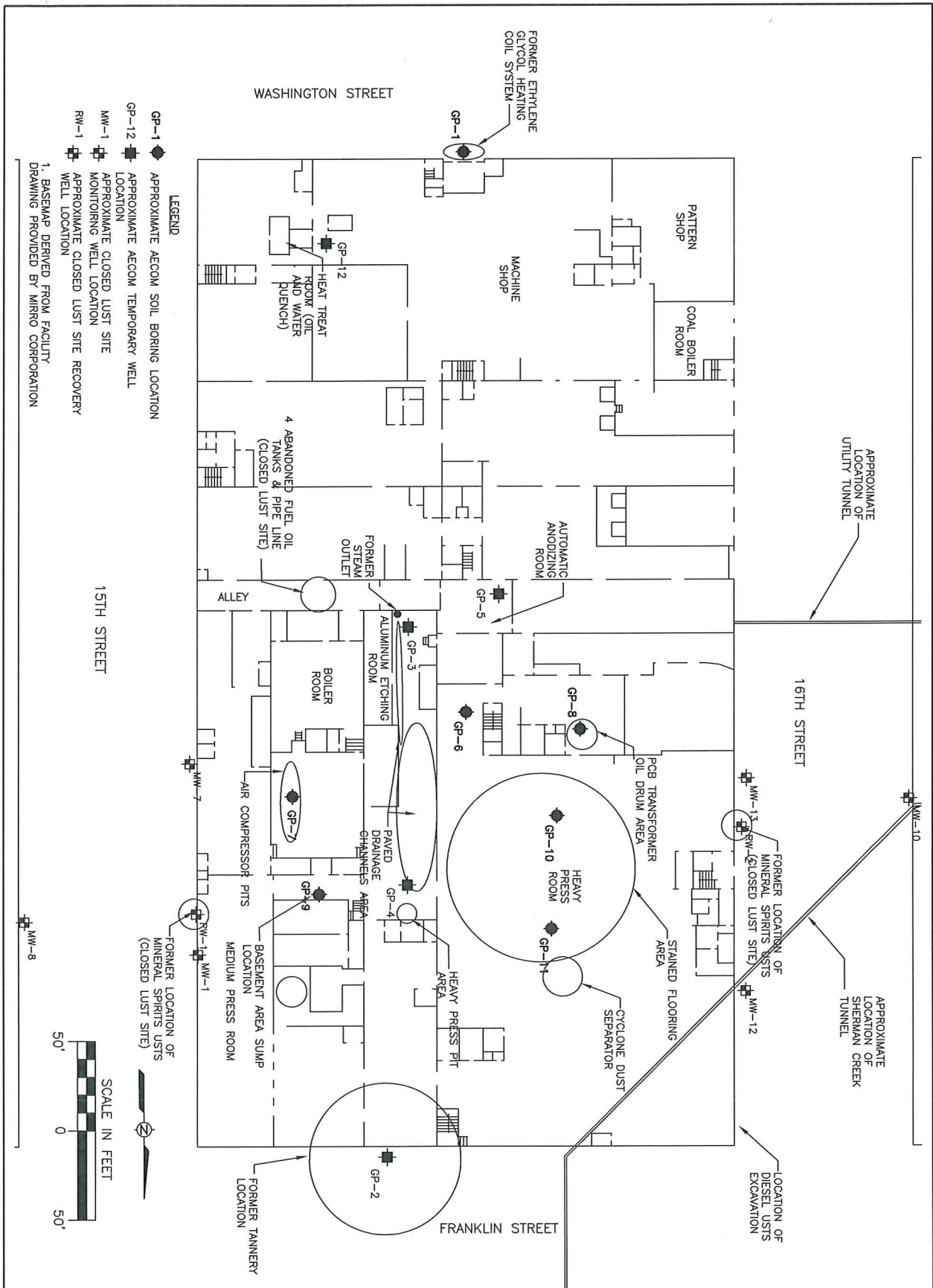
X:\Projects\200803466\dwg\200803466_Figure 1.dwg: 5/20/2009 11:54:03 AM; MOTT, ANDREW G.; STS.snb



SITE LOCATION MAP
PHASE II ESA
MIRRO PLANT 9 (1512 WASHINGTON STREET)
MANITOWOC, WISCONSIN

558 North Main Street
 Oshkosh, Wisconsin
 920.235.0270
 www.sts.aecom.com
 Copyright © 2007, By: STS

Drawn :	MAS	8/25/2008
Checked:	AGM	8/25/2008
Approved:		
PROJECT NUMBER	200803466	
FIGURE NUMBER	1	



Drawn:	REO	4/6/2009
Checked:	AGM	4/6/2009
Project Number:	200803466	
Figure Number:	2	

**SOIL BORING LOCATION DIAGRAM
PHASE II ESA
MIRRO PLANT 9 (1512 WASHINGTON STREET)
MANITOWOC, WISCONSIN**

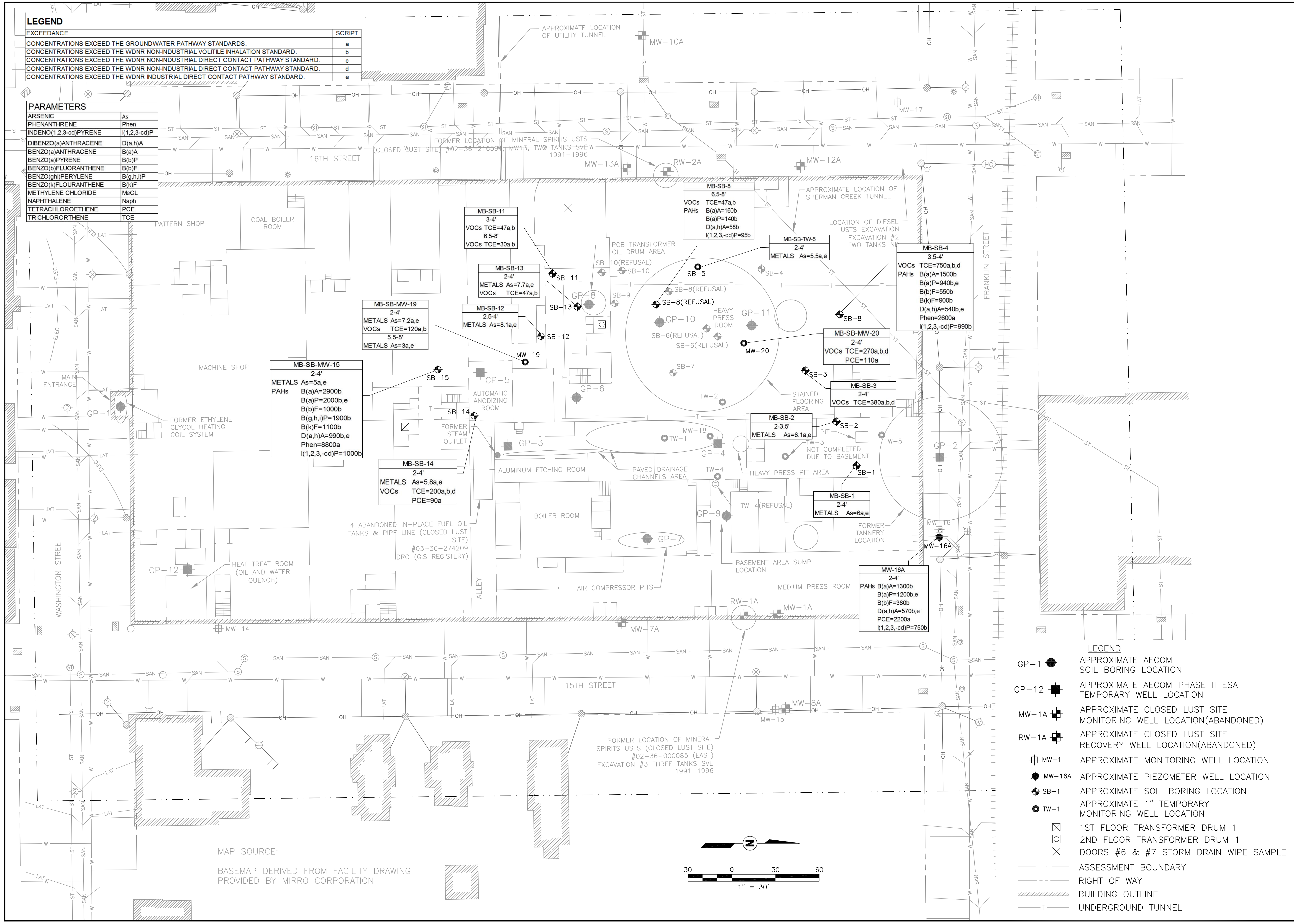
AECOM
558 North Main Street
Oshkosh, Wisconsin
920.235.0270
www.sts.aecom.com
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Figure 2A - Historical Sampling Locations

SAMPLING LOCATIONS
PHASE II ESA
MIRRO PLANT 9 (1512 WASHINGTON STREET)
MANITOWOC, WISCONSIN

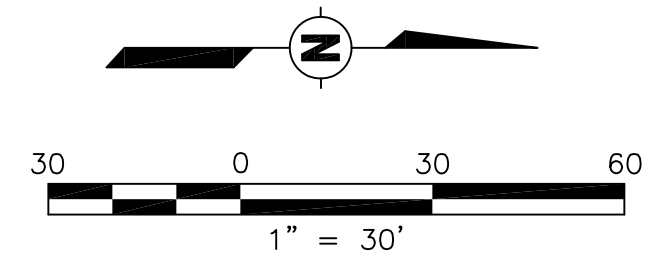
EXCEEDANCE	SCRIPT
CONCENTRATIONS EXCEED THE GROUNDWATER PATHWAY STANDARDS.	a
CONCENTRATIONS EXCEED THE WDNR NON-INDUSTRIAL VOLITILE INHALATION STANDARD.	b
CONCENTRATIONS EXCEED THE WDNR NON-INDUSTRIAL DIRECT CONTACT PATHWAY STANDARD.	c
CONCENTRATIONS EXCEED THE WDNR NON-INDUSTRIAL DIRECT CONTACT PATHWAY STANDARD.	d
CONCENTRATIONS EXCEED THE WDNR INDUSTRIAL DIRECT CONTACT PATHWAY STANDARD.	e

PARAMETERS	
ARSENIC	As
PHENANTHRENE	Phen
INDENO(1,2,3-cd)PYRENE	I(1,2,3-cd)P
DIBENZO(a)ANTHRACENE	D(a,h)A
BENZO(a)ANTHRACENE	B(a)A
BENZO(a)PYRENE	B(b)P
BENZO(b)FLUORANTHENE	B(b)F
BENZO(g,h)PERYLENE	B(g,h)P
BENZO(k)FLOURANTHENE	B(k)F
METHYLENE CHLORIDE	MeCL
NAPHTHALENE	Naph
TETRACHLOROETHENE	PCE
TRICHLOROETHENE	TCE



LEGEND

- GP-1 ● APPROXIMATE AECOM SOIL BORING LOCATION
- GP-12 ■ APPROXIMATE AECOM PHASE II ESA TEMPORARY WELL LOCATION
- MW-1A ■ APPROXIMATE CLOSED LUST SITE MONITORING WELL LOCATION (ABANDONED)
- RW-1A ■ APPROXIMATE CLOSED LUST SITE RECOVERY WELL LOCATION (ABANDONED)
- MW-1 ■ APPROXIMATE MONITORING WELL LOCATION
- MW-16A ● APPROXIMATE PIEZOMETER WELL LOCATION
- SB-1 ● APPROXIMATE SOIL BORING LOCATION
- TW-1 ● APPROXIMATE 1" TEMPORARY MONITORING WELL LOCATION
- ☒ 1ST FLOOR TRANSFORMER DRUM 1
- ☐ 2ND FLOOR TRANSFORMER DRUM 1
- ⊗ DOORS #6 & #7 STORM DRAIN WIPE SAMPLE
- ASSESSMENT BOUNDARY
- - - RIGHT OF WAY
- ▨ BUILDING OUTLINE
- - - UNDERGROUND TUNNEL



Rev	Date	Description

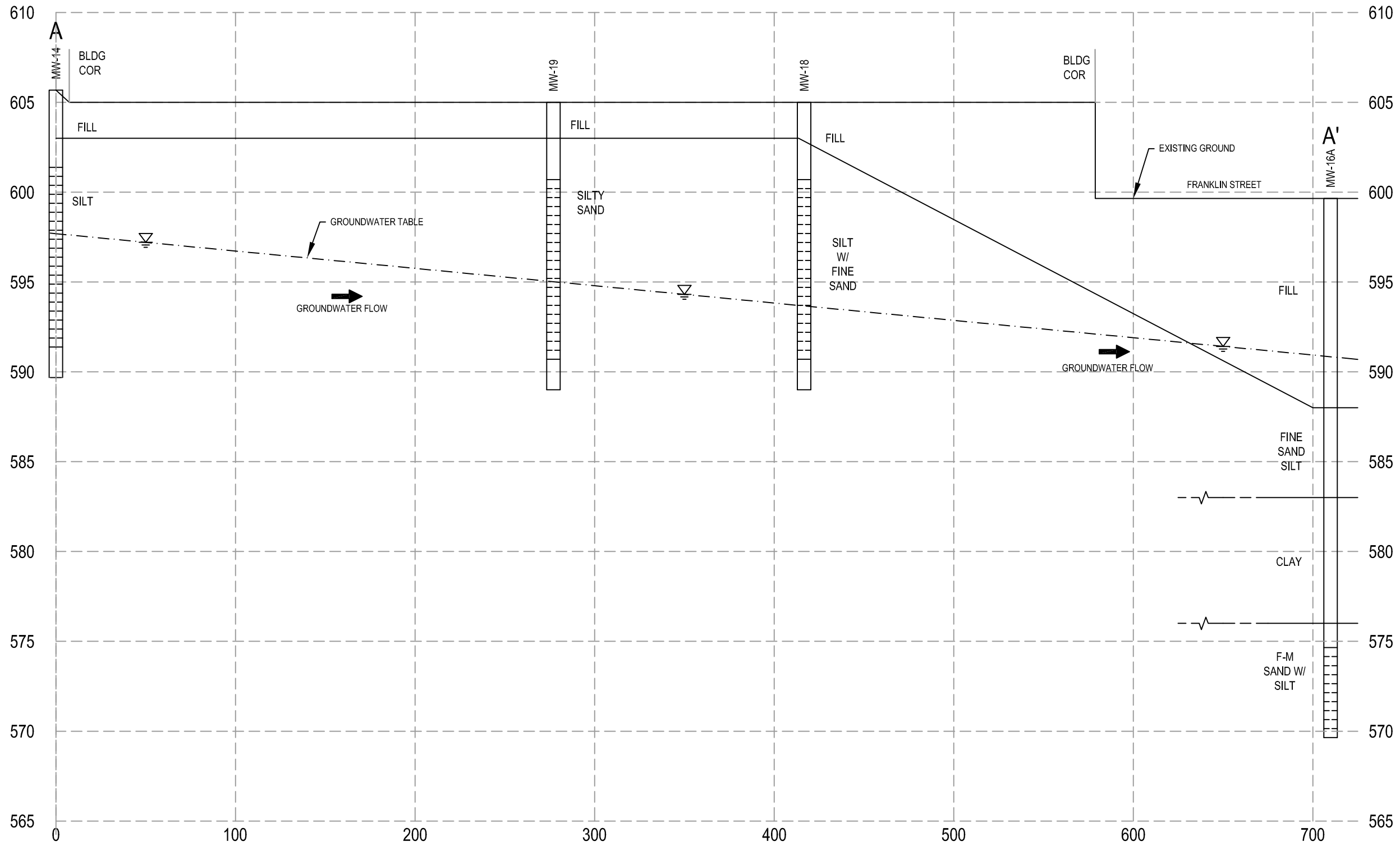
Designed: AGM 9/13/2010
 Drawn: REO 9/13/2010
 Checked: AGM 9/13/2010
 Approved: _____

PROJECT NUMBER
200803466

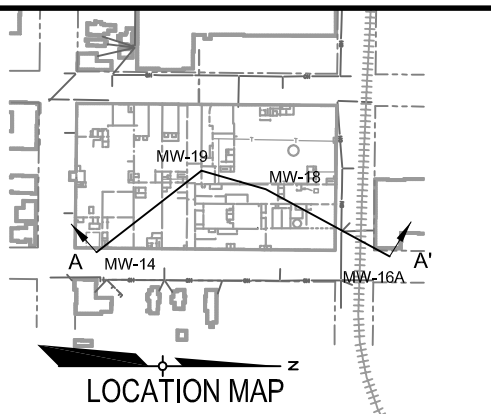
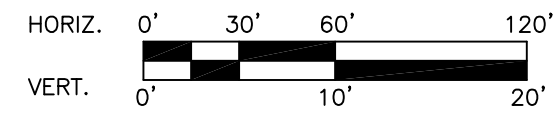
SHEET REFERENCE NUMBER

FIGURE 3

L:\work\Projects\6016491\000_CAD\001_Drawings\Sheets\Figure 3_Sample Locations.dwg, 3/24/2011 4:38:23 PM: BREUNIG, ADAM: STS.stb



CROSS SECTION A-A'
PHASE II ESA
MIRRO PLANT 9 (1512 WASHINGTON STREET)
MANITOWOC, WISCONSIN



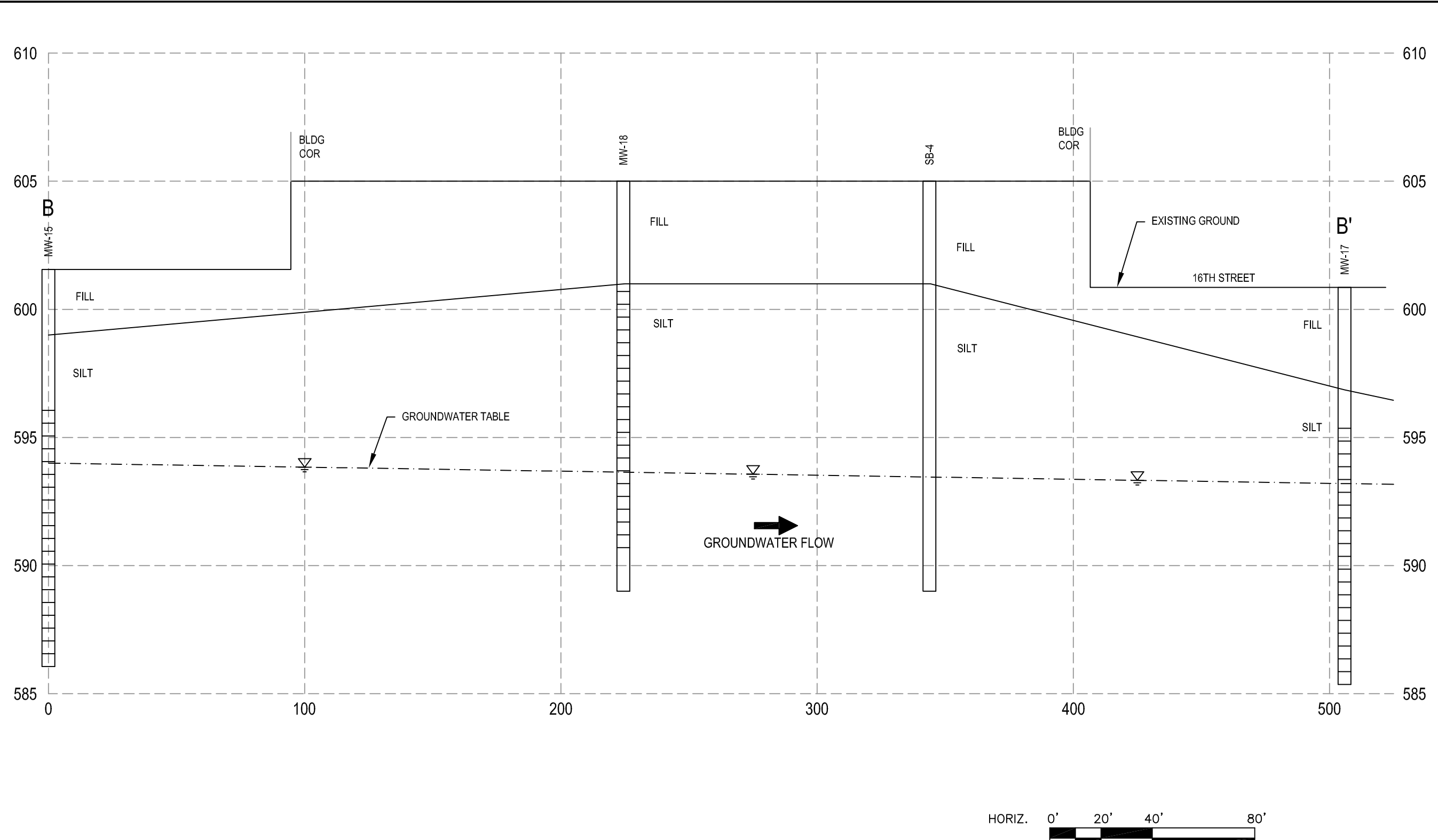
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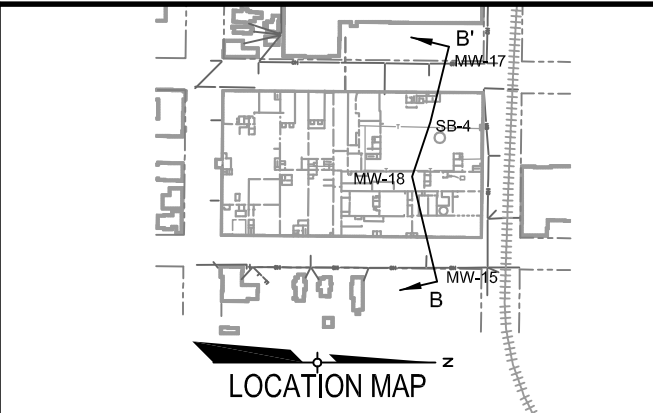
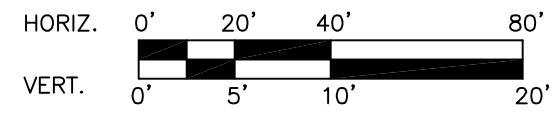
Approved:

PROJECT NUMBER **60163491**

FIGURE NUMBER **4A**



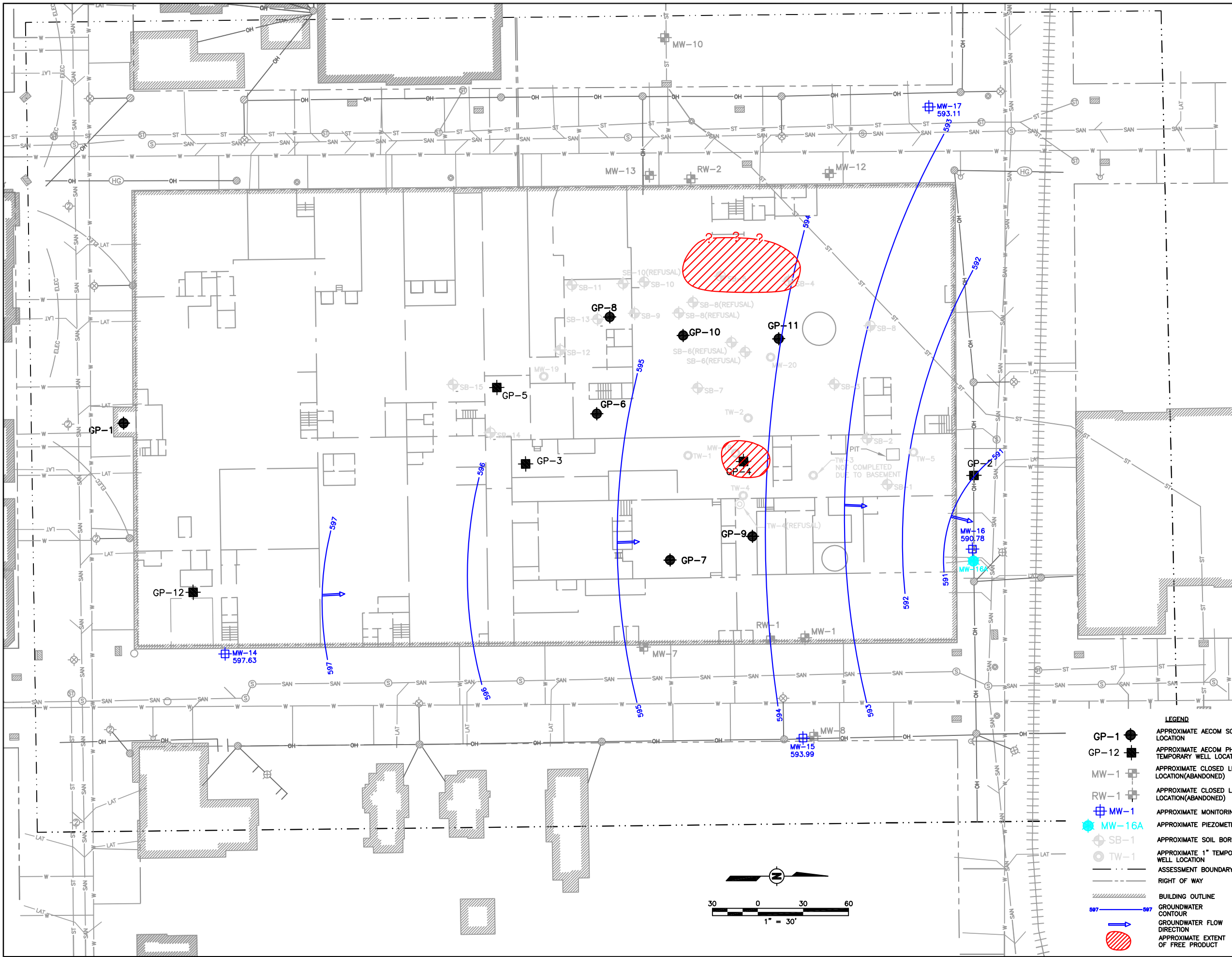
CROSS SECTION B-B'
PHASE II ESA
MIRRO PLANT 9 (1512 WASHINGTON STREET)
MANITOWOC, WISCONSIN



Drawn :	KMB 3/22/2010
Checked:	
Approved:	
PROJECT NUMBER	60163491
FIGURE NUMBER	4B

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GROUNDWATER CONTOUR MAP (11/16/10)
 SITE INVESTIGATION
 MIRRO PLANT 9 (1512 WASHINGTON STREET)
 MANITOWOC, WISCONSIN



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- LEGEND**
- GP-1 ● APPROXIMATE AECOM SOIL BORING LOCATION
 - GP-12 ■ APPROXIMATE AECOM PHASE II ESA TEMPORARY WELL LOCATION
 - MW-1 ■ APPROXIMATE CLOSED LUST SITE MONITORING WELL LOCATION (ABANDONED)
 - RW-1 ■ APPROXIMATE CLOSED LUST SITE RECOVERY WELL LOCATION (ABANDONED)
 - MW-1 ■ APPROXIMATE MONITORING WELL LOCATION
 - MW-16A ● APPROXIMATE PIEZOMETER WELL LOCATION
 - SB-1 ● APPROXIMATE SOIL BORING LOCATION
 - TW-1 ● APPROXIMATE 1" TEMPORARY MONITORING WELL LOCATION
 - - - ASSESSMENT BOUNDARY
 - - - RIGHT OF WAY
 - BUILDING OUTLINE
 - - - GROUNDWATER CONTOUR
 - GROUNDWATER FLOW DIRECTION
 - ▨ APPROXIMATE EXTENT OF FREE PRODUCT

Issued
Rev Date Description

Designed: AGM 9/13/2010
Drawn: RED 9/13/2010
Checked: AGM 9/13/2010
Approved: ARC 1/26/2011

PROJECT NUMBER
60163491
SHEET REFERENCE NUMBER

FIGURE 5

TABLES

TABLE 1
SUMMARY OF ENVIRONMENTAL CONCERNS AND FINAL TBA INVESTIGATION LOCATIONS-SOIL
FORMER MIRRO PLANT NO. 9 PROPERTY
MANITOWOC, WISCONSIN

Environmental Condition/Location	Total Borings	Proposed Sampling Locations	Proposed Sampling Depths	Modifications to Sampling	Rationale	Results	Number of Samples Collected for Analysis			
							TAL Metals	VOCs	PAHs	PCBs
A slight oil sheen was observed in temporary monitoring well GP-4. This boring is in the vicinity of a large hydraulic press, which is partly below grade. Oils were observed and PAH compounds were detected in this area.	5	TW-1 thru TW-4, MW-18	TW-1 thru TW-4 @ 2-4' and 8-10' MW-18 @ 12-14'	TW-1, TW-2, and MW-18 were completed as proposed. TW-4 was only completed to 4.0' and TW-3 was not advanced.	TW-4 hit refusal at 4.0' twice and the building basement was located below TW-3.	No VOC or PCB compounds were detected in TW-1, TW-2, or MW-18 in soil.		6	5	2
PCE and TCE were observed in soil samples collected from various locations in the middle of the property. Multiple releases of chlorinated solvents may have contributed to impacts across this area.	7	SB-3 through SB-8, and MW-20	SB-3 thru SB-8 @ 2-4' and 8-10' MW-20 @ 0-2' and 8-10'	SB-3, SB-4, SB-7, and MW-20 were completed as proposed. SB-5 was advanced to 16' and converted into a temp well, SB-6 was not completed, and SB-8 was moved from proposed location.	SB-5 was advanced further and converted into a temp well to further characterize impacts observed in the field. SB-6 was not advanced due to refusal. SB-8 was moved due to refusal in it's proposed located and to further define impacts north of the Heavy Press Room.	SB-4 and MW-20 exceeded Direct Contact (Residential) and Volatile Inhalation standards for Trichlorethylene. No other VOCs were detected. The soil sample from SB-4 exceeded Direct Contact standards for Benzo(a)pyrene and Dibenzo(a,h)anthracene.	2	14	4	
Groundwater in the vicinity of GP-2 indicated TCE in excess of Wisconsin NR 140 Wis.Admin. Code Enforcement Standards and this is believed to be downgradient of the areas mentioned above in the middle of the site.	1	MW-15, MW-16A, and MW-17	MW-16A @ 2-4, 8-10', 28-30'	Advanced as proposed		No VOC compounds were detected in soil for MW-15, MW-16A, and MW-17. The soil samples from MW-15 and MW-16A exceeded Direct Contact standards for Benzo(a)pyrene and Dibenzo(a,h)anthracene.		4	3	
PCBs were detected in a shallow soil sample collected in the area of the PCB drum storage area. The wood flooring in this area is stained with PCB oils.	4	SB-9 through SB-12	0-2' and 8-10'	SB-10 and SB-12 was moved from proposed location. SB-12 was advanced to 7'. PCBs were not sampled from SB-12 and TAL metals were added to SB-12.	SB-10 was moved due to concrete refusal. SB-12 was moved due to unsafe conditions due to the buildings floors and was advanced only to 7' due to refusal. Change in PCB and TAL metal sampling in SB-12 where due to change in location.	PCBs were detected in SB-10 at 3-4 at a concentration of 0.27 ppm. No other PCBs were detected in soil. VOCs were detected above volatile inhalation standards in SB-11 (TCE).	2	7		5
BTEX compounds were detected in groundwater adjacent to the Heat Treat Room.	1	MW-14	8-10'	MW-14 was sampled from 6-8'.	Field observation indicated the water table was at 8'.	MW-14 (2.5-4') had detections of TCE above non-industrial volatilization standard.		1		
High concentrations of aluminum in soil were detected in the automatic anodizing room.	4	SB-13 through SB-15, and MW-19	2-4' and 8-10'	Locations of SB-13, SB-14 and MW-19 were moved from proposed location. PCBs were added to SB-13.	Locations of SB-13, SB-14 and MW-19 were moved from proposed location due to building conditions. Change in PCB sampling for SB-13 was due the change in locations.	SB-14 (2.5 - 4') exceeded Direct Contact and Volatile Inhalation standards for TCE. TCE also detected in SB-13 and MW-19.	5	7		1
PCB oil was detected in a sump in the northeast corner basement.	3	SB-1, SB-2, and TW-5	0-2' (metals) and 8-10'	SB-1, SB-2, and TW-5 were only advanced to 4'.	SB-1, SB-2, and TW-5 were only advanced to 4' due to refusal.	No metals, or PAH / VOC compounds or metals were detected above standards.	3	3	2	3
Abandoned fuel oil tanks	2	SB-16 and SB-17	10' (beneath clean backfill)	Not advanced as proposed	PCB drums and catch basin were sampled instead.	No samples collected.				
Total	27				Subtotal Soil Samples		12	42	14	11
					Trip Blanks			4		
					Equipment Blank		1	1	1	1
					Field Duplicates		2	5	3	2
					MS/MSD		1	1	1	1
					Total Soil Samples		16	53	19	15

VOCs = Volatile Organic Compounds by EPA Method 8260B.
SVOCS = Semi-volatile Organic Compounds by EPA Method 8270.
TAL Metals via method 6010B and 7471A (mercury).
PCBs = Polychlorinated Biphenyls by EPA Method 8082.
PAHS = polyaromatic hydrocarbons by EPA Method 8310.
DRO = Diesel Range Organics by EPA Method 80165.
NS: No sampling

Field Duplicate Samples will be collected 1 per 10 sample locations for each parameter.
MS/MSD Samples will be collected 1 per 20 sample locations for each parameter.
Equipment Blank Samples will be collected 1 per 10 sample locations or at least 1 per day for VOCs only.

TABLE 2
SUMMARY OF ENVIRONMENTAL CONCERNS AND FINAL TBA INVESTIGATION LOCATIONS-GROUNDWATER
FORMER MIRRO PLANT NO. 9 PROPERTY
MANITOWOC, WISCONSIN

Environmental Condition/Location	Max Wells	Proposed Sampling Locations	Rationale	Modifications to Sampling	Number of Samples Collected for Analysis		
					TAL Metals	VOCs	PAHs
A slight oil sheen was observed in temporary monitoring well GP-4. This boring is in the vicinity of a large hydraulic press, which is partly below grade. Oils were observed and PAH compounds were detected in this area.	5 (4**)	TW-1 through TW-4, MW-18	MW-18 was completed as a 1" temp well and not sampled.	MW-18 was completed as a temp well due to drill rig access to building. MW-18 was not sampled due to free product.	2	2	2
PCE and TCE were observed in soil samples collected from various locations in the middle of the property. Multiple releases of chlorinated solvents may have contributed to impacts across this area.	1	MW-20	MW-20 was completed as a 1" temp well. Soil Boring was converted into a temp well but not sampled.	MW-20 was completed as a temp well due to drill rig access to building. SB-5 was converted into a temp well due to field indications of impacts. SB-5 was not sampled due to free product.		1	
Groundwater in the vicinity of GP-2 indicated TCE in excess of Wisconsin NR 140 Wis.Admin. Code Enforcement Standards and this is believed to be downgradient of the areas mentioned above in the middle of the site.	1 (exterior also)	MW-16 and piezometer	Completed as proposed		1	2	1
PCBs were detected in a shallow soil sample collected in the area of the PCB drum storage area. The wood flooring in this area is stained with PCB oils.	NS	NS					
BTEX compounds were detected in groundwater adjacent to the Heat Treat Room.	1 (exterior also)	MW-14 and GP-12	Completed as proposed		2	2	
High concentrations of aluminum in soil were detected in the automatic anodizing room.	1	MW-19	MW-19 was completed as a 1" temp well.	MW-19 was completed as a temp well due to drill rig access to building.	1	1	
PCB oil was detected in a sump in the northeast corner basement.	1**	TW-5	Temp well was not sampled.	Temp well did not produce water.			
Exterior property Boundaries	2	MW-15 & MW-17	Completed as proposed		2	2	
Abandoned fuel oil tanks	NS	NS					
Total Permanent Wells	7			Subtotal Aqueous Samples	8	10	3
				Trip Blanks		2	
				Equipment Blank		1	1
				Field Duplicates	1	2	1
				MS/MSD	1	1	1
				Total GW Samples	10	16	6

** Indicates a temporary monitoring well will be installed.
VOCs = Volatile Organic Compounds by EPA Method 8260B.
SVOCs = Semi-volatile Organic Compounds by EPA Method 8270.
TAL Metals via method 6010B and 7471A (mercury).
PCBs = Polychlorinated Biphenyls by EPA Method 8082.
PAHs = polyaromatic hydrocarbons by EPA Method 8310.
DRO = Diesel Range Organics by EPA Method 80165.
NS: No sampling
Field Duplicate Samples will be collected 1 per 10 sample locations for each parameter.
MS/MSD Samples will be collected 1 per 20 sample locations for each parameter.
Equipment Blank Samples will be collected 1 per 10 sample locations or at least 1 per day for VOCs only.

**Table 3
Monitoring Well Installation Summary
Former Mirro Plant No. 9 Property
Manitowoc, Wisconsin**

Well ID	WI Unique Well No.	Date Installed	Casing Diameter - Type	Status	Elevation - TOC	Elevation Ground Surface	Depth to Top of Screen	Total Depth	Screen Length	Latitude	Longitude	Method
MW-14	VT081	10/18/2010	2" PVC	Existing	605.83	605.68	5	15	10	44° 05' 21.049323"	87° 40' 03.616874"	Hollow Stem
MW-15	VT082	10/18/2010	2" PVC	Existing	601.09	601.56	5	15	10	44° 05' 24.818021"	87° 40' 02.769115"	Hollow Stem
MW-16	VT083	10/18/2010	2" PVC	Existing	598.95	599.61	5	15	10	44° 05' 25.944423"	87° 40' 04.375972"	Hollow Stem
MW-16A	VT084	10/19/2010	2" PVC	Existing	599.29	599.65	25	30	5	44° 05' 25.941849"	87° 40' 04.410809"	Hollow Stem
MW-17	VT085	10/18/2010	2" PVC	Existing	600.34	600.86	5	15	10	44° 05' 25.707150"	87° 40' 08.457565"	Hollow Stem
MW-18	NA	10/26/2010	1" PVC prepack	Removed	NA	NA	6	16	10	NA	NA	Direct Push
MW-19	NA	10/28/2010	1" PVC prepack	Removed	NA	NA	6	16	10	NA	NA	Direct Push
MW-20	NA	10/26/2010	1" PVC prepack	Removed	NA	NA	6	16	10	NA	NA	Direct Push
GP-12	NA				NA	NA				NA	NA	Direct Push
TW-1	NA	10/26/2010	1.25" PVC	Removed	NA	NA	2	12	10	NA	NA	Direct Push
TW-2	NA		1.25" PVC	Removed	NA	NA	2	12	10	NA	NA	Direct Push

Table 4A
TAL Metals Soil Analytical Data
Former Mirro Plant No. 9 Property
Manitowoc, Wisconsin

Parameters	WDNR Generic RCLs-Data Quality Objectives (ug/kg)					Results (ug/kg)										
	Direct Contact Pathway		Volatile Inhalation		Groundwater	MB-SB-TW-5	MB-SB-2	MB-SB-1	MB-SB-12	MB-SB-12	MB-SB-MW-19	MB-SB-MW-19 (DUP)	MB-SB-MW-19	MB-SB-13	MB-SB-14	MB-SB-15
	Non-Industrial	Industrial	Non-Industrial	Industrial	Pathway	2-4'	2-3.5	2-4'	2.5-4'	5-7'	2-4'	2-4'	5.5-8'	1.5-2'	2.5-4'	2-4'
Sample Date						10/29/2010	10/29/2010	10/29/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010
Aluminum	--	--	--	--	--	3500	3900	3100	4500	4700	3800	3500	3900	4700	5600	4000
Antimony	--	--	--	--	--	3.4	3	2.6	1.3	ND	0.8	2.1	1.3	0.33	2.3	1.6
Arsenic	0.039	1.6	--	--	0.58	5.5	6.1	6	8.1	ND	7.2	4.5	3	7.7	5.8	5
Barium	3,130	2.4 x 10 ⁵	--	--	3,300	14	45	8.6	16	29	29	21	11	22	31	14
Beryllium	--	--	--	--	--	0.15	0.26	0.13	0.18	0.23	0.26	0.22	0.18	0.2	0.25	0.15
Cadmium	8	510	--	--	1.5	ND	0.14	ND	ND	0.35	0.32	0.14	0.17	0.11	0.37	0.17
Calcium	--	--	--	--	--	84000	80000	87000	47000	47000	52000	51000	71000	72000	60000	77000
Chromium	16,000	1.53 x 10 ⁶	--	--	360	9.2	9.5	9	9.3	9	7.2	7.2	8.5	9	11	9.3
Cobalt	--	--	--	--	--	2.5	3.4	2.8	3.8	3.7	3.5	3.4	3.9	3.3	3.4	3.8
Copper	--	--	--	--	2200	9.3	12	8.9	30	33	190	28	11	69	21	9.8
Iron	--	--	--	--	--	6100	7100	5000	9900	9500	8400	7400	8100	8100	9000	7500
Lead	50	500	--	--	--	3.7	6.6	6	11	20	28	18	4.2	12	32	6.5
Magnesium	--	--	--	--	--	52000	46000	53000	29000	23000	29000	29000	45000	38000	34000	48000
Manganese	--	--	--	--	--	180	200	130	240	340	200	210	240	230	190	210
Mercury	--	--	2.9	2.9	0.42	ND	ND	ND	0.015	0.022	ND	ND	0.012	ND	0.043	0.017
Nickel	--	--	--	--	--	5.9	7	5.6	9	8.1	27	9.2	7.8	7.7	8.2	6.9
Potassium	--	--	--	--	--	590	670	530	640	780	590	560	580	720	620	710
Selenium	78.2	5,110	--	--	1	ND	ND	ND	5.8	ND	4.7	ND	ND	6	ND	
Silver	78.2	5,110	--	--	1.67	0.16	ND	0.17	0.17	ND	0.29	0.15	0.15	0.53	0.16	0.13
Sodium	--	--	--	--	--	310	310	300	280	290	430	370	350	260	290	300
Thallium	--	--	--	--	--	nd	6.6	ND	nd	4.7	ND	4.4	ND	8	4	6.8
Zinc	--	--	--	--	--	14	20	13	23	27	27	22	14	32	49	14

Notes:

WDNR = Wisconsin Department of Natural Resources
 Concentrations noted in *italics* exceed the Groundwater Pathway standards.
 Concentrations in grey cells exceed WDNR Direct Contact Pathway
 TAL Metals = Target Analyte List

All units in ug/kg

-- = no standard

Direct Contact Pathway and Volatile Inhalation Pathway from WAC 720 Soil Cleanup Standard:

TABLE 4B
VOCS Soil Analytical Data
Former Mirro Plant No. 9 Property
Manitowoc, Wisconsin

Parameters	WDNR Generic RCLs-Data Quality Objectives (ug/kg)					MB-SB-MW-14 6-8'	MB-SB-MW-15 5.5-6.5'	MB-SB-MW-17 5-7'	MB-SB-MW-16A 6-8'	MB-SB-MW-16A 29-30'	MB-SB-TW-5 2-4'	MB-SB-2 2-3.5'	MB-SB-1 2-4'	MB-SB-12DUP 2.5-4'	MB-SB-12 5-7'	MB-SB-12 2.5-4'	MB-SB-MW-19 2-4'	MB-SB-MW-19 5.5-8	MW-SB-MW-19 (DUP) 5-5.8	MB-SB-13 1.5-2	MB-SB-14 2.5-4'	MB-SB-14 6-7.5'	MB-SB-15 2-4'	MB-SB-15 5.6-6
	Direct Contact Pathway		Volatile Inhalation		Groundwater																			
	Non-Industrial	Industrial	Non-Industrial	Industrial	Pathway																			
SAMPLE DATE					10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/29/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	10/28/2010	
Benzene	1,100	52,000	160	2,600	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	1,030	46,200	3200000 ^f	3200000 ^f	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromoform	8,090	362,000	10,000	170,000	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromomethane	21,900	1,430,000	3,800	27,000	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon tetrachloride	491	22,000	62	1,000	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	313,000	20,400,000	49,000	340,000	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorodibromomethane	760	34,100	--	--	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	10,500	469,000	54	910	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloromethane	4,910	220,000	410	6,900	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Chlorotoluene	313,000	20,400,000	--	--	2700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-chloropropane	46	2,040	8,200	57,000	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromoethane	31.9	1,430	0.019	0.33	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibromomethane	156,000	10,200,000	2,000,000 ^f	2,000,000 ^f	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	1,410,000	92,000,000	600,000 ^f	600,000 ^f	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	57	ND	ND	ND	ND	
1,3-Dichlorobenzene	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	2,660	119,000	4,000,000	28,000,000	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	3,130,000	204,000,000	89,000	620,000	21,918	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	3,130,000	204,000,000	490,000	1,800,000 ^f	349	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	702	31,400	73	1,200	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	782,000	51,100,000	110,000	780,000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	156,000	10,200,000	1,300,000 ^f	1,300,000 ^f	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	313,000	20,400,000	3,200,000 ^f	3,200,000 ^f	98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane	939	42,100	5,800	40,000	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichloropropane	313,000	20,400,000	1,700,000 ^f	1,700,000 ^f	640	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	1,560,000	102,000,000	400,000 ^f	400,000 ^f	2,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	819	36,700	1,500	24,000	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Isopropylbenzene (cumene)	1,560,000	102,000,000	--	860,000 ^f	37,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	8,520	382,000	2,600	43,000	1.6	ND	ND	ND	ND	ND	ND	ND	ND	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methyl-tert-butyl-ether	--	--	--	10,000,000 ^f	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	60,000	4,000,000	65,000	440,000	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	ND	ND	ND	ND	380	ND	ND	ND	
n-Propylbenzene	--	--	--	460,000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Styrene	3,130,000	204,000,000	1,500,000	1,500,000	370	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	319	14,300	110	1,900	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	1,230	55,000	2,000	34,000	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	90	ND	ND	ND	
Toluene	1,250,000	81,800,000	670,000 ^f	670,000 ^f	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	61	ND	ND	ND	ND	160	ND	ND	ND	
1,2,3-Trichlorobenzene	--	--	67,000	470,000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	156,000	10,200,000	--	--	540	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	ND	ND	ND	ND	
1,1,1-Trichloroethane						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	1,120	50,200	190	3,200	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	160	7,150	14	230	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	ND	ND	ND	47	200	ND	ND	ND	
Trichlorofluoromethane	4,690,000	307,000,000	--	1,600,000 ^f	29,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3-Trichloropropane	9.12	409	--	570,000 ^f	76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene ¹	782,000	51,100,000	47,000	330,000	7573	ND	ND	ND	ND	ND	ND	ND	ND	ND	51	ND	ND	ND	ND	210	ND	ND	ND	
1,3,5-Trimethylbenzene ¹	782,000	51,100,000	27,000	190,000	3520	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70	ND	ND	ND	
Vinyl chloride	42.6	1,910	53	890	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylenes, total	3,130,000	204,000,000	270,000	1,900,000	4,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	150	ND	ND	ND	ND	530	ND	ND	ND	

Notes:
MW-SB-TW-2* : Asterisk denotes samples were analysed one day beyond holding time, see Data Validation section for discussion.
WDNR = Wisconsin Department of Natural Resources
All units in ug/kg
Concentrations noted in *italics* exceed the Groundwater Pathway standards.
Concentrations noted in **bold** exceed the WDNR non-industrial volatile inhalation standard.
Concentrations in grey cells exceed the WDNR non-industrial direct contact pathway standard.
Direct Contact Pathway and Volatile Inhalation Pathway from WAC 720 Soil Cleanup Standards

TABLE 4B
VOCS Soil Analytical Data
Former Mirro Plant No. 9 Property
Manitowoc, Wisconsin

Parameters	WDNR Generic RCLs-Data Quality Objectives (ug/kg)					Results (ug/kg)																			
	Direct Contact Pathway		Volatile Inhalation		Groundwater Pathway	MB-SB-8	MB-SB-8	MB-SB-3	MB-SB-3	MB-SB-4	MB-SB-4	MB-SB-4	MB-SB-5	MB-SB-5	MB-SB-5 (DUP)	MB-SB-5	MB-SB-7	MB-SB-7	MB-SB-9	MB-SB-10	MB-SB-10	MB-SB-11	MB-SB-11	MB-SB-TW-4*	
	Non-Industrial	Industrial	Non-Industrial	Industrial		6.5-8'	9.5-12'	2-4'	9-10'	3.5-4'	6.5-8'	11.5-12'	2-4'	9.5-12'	9.5-12'	14-15'	2-4'	5.5-8'	5.5-8'	3-4'	5.5-7.5'	3-4'	6.5-8'	3-4'	
SAMPLE DATE						10/28/2010	10/28/2010	10/26/2010	10/26/2010	10/26/2010	10/26/2010	10/26/2010	10/27/2010	10/27/2010	10/27/2010	10/27/2010	10/27/2010	10/27/2010	10/27/2010	10/27/2010	10/27/2010	10/27/2010	10/28/2010	10/28/2010	10/26/2010
Benzene	1,100	52,000	160	2,600	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	1,030	46,200	3200000 ^f	3200000 ^f	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromoform	8,090	362,000	10,000	170,000	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromomethane	21,900	1,430,000	3,800	27,000	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon tetrachloride	491	22,000	62	1,000	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	313,000	20,400,000	49,000	340,000	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorodibromomethane	760	34,100	--	--	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	10,500	469,000	54	910	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloromethane	4,910	220,000	410	6,900	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Chlorotoluene	313,000	20,400,000	--	--	2700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-chloropropane	46	2,040	8,200	57,000	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromoethane	31.9	1,430	0.019	0.33	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibromomethane	156,000	10,200,000	2,000,000 ^f	2,000,000 ^f	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	1,410,000	92,000,000	600,000 ^f	600,000 ^f	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	64	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	2,660	119,000	4,000,000	28,000,000	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	3,130,000	204,000,000	89,000	620,000	21,918	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	3,130,000	204,000,000	490,000	1,800,000 ^f	349	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	702	31,400	73	1,200	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	782,000	51,100,000	110,000	780,000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	156,000	10,200,000	1,300,000 ^f	1,300,000 ^f	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	313,000	20,400,000	3,200,000 ^f	3,200,000 ^f	98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane	939	42,100	5,800	40,000	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichloropropane	313,000	20,400,000	1,700,000 ^f	1,700,000 ^f	640	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	1,560,000	102,000,000	400,000 ^f	400,000 ^f	2,900	ND	ND	ND	ND	73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	819	36,700	1,500	24,000	120	ND	ND	ND	ND	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Isopropylbenzene (cumene)	1,560,000	102,000,000	--	860,000 ^f	37,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	8,520	382,000	2,600	43,000	1.6	ND	ND	120	ND	ND	ND	ND	ND	ND	ND	120	160	270	190	ND	89	ND	ND	ND	
Methyl-tert-butyl-ether	--	--	--	10,000,000 ^f	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	60,000	4,000,000	65,000	440,000	400	ND	ND	110	ND	540	ND	120	150	ND	ND	ND	ND	ND	ND	ND	ND	62	ND	76	
n-Propylbenzene	--	--	--	460,000	--	ND	ND	ND	ND	34	ND	58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Styrene	3,130,000	204,000,000	1,500,000	1,500,000	370	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	319	14,300	110	1,900	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	1,230	55,000	2,000	34,000	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	1,250,000	81,800,000	670,000 ^f	670,000 ^f	1,500	ND	ND	ND	ND	400	ND	52	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	--	--	67,000	470,000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	180	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	156,000	10,200,000	--	--	540	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	970	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	1,120	50,200	190	3,200	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	160	7,150	14	230	3.7	47	ND	380	ND	170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47	30	ND		
Trichlorofluoromethane	4,690,000	307,000,000	--	1,600,000 ^f	29,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3-Trichloropropane	9.12	409	--	570,000 ^f	76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene ¹	782,000	51,100,000	47,000	330,000	7573	ND	ND	38	ND	210	ND	260	110	120	80	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene ¹	782,000	51,100,000	27,000	190,000	3520	ND	ND	ND	ND	53	ND	47	40	98	62	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	42.6	1,910	53	890	0.13	ND	ND	ND	ND	890	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylenes, total	3,130,000	204,000,000	270,000	1,900,000	4,100	ND	ND	ND	ND	860	ND	ND	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:
MW-SB-TW-2* : Asterisk denotes samples were analysed one day beyond holding time, see Data Validation sect
WDNR = Wisconsin Department of Natural Resources
All units in ug/kg
Concentrations noted in *italics* exceed the Groundwater Pathway standards.
Concentrations noted in **bold** exceed the WDNR non-industrial volatile inhalation standard.
Concentrations in grey cells exceed the WDNR non-industrial direct contact pathway standard.
Direct Contact Pathway and Volatile Inhalation Pathway from WAC 720 Soil Cleanup Standards

TABLE 4B
VOCS Soil Analytical Data
Former Mirro Plant No. 9 Property
Manitowoc, Wisconsin

Parameters	WDNR Generic RCLs-Data Quality Objectives (ug/kg)					MB-SB-TW-1* 6-8'	MB-SB-TW-2* 8.5-9.5	MB-SB-MW-18* 3-4'	MB-SB-MW-18* 6.5-8'	MB-SB-MW-18 14-16'	MB-SB-MW-18* (DUP) 14-16'	MB-SB-MW-20* 2-4'	MB-SB-MW-20* (DUP) 2-4'	MB-SB-MW-20 5-8'
	Direct Contact Pathway		Volatile Inhalation		Groundwater									
	Non-Industrial	Industrial	Non-Industrial	Industrial	Pathway									
SAMPLE DATE						10/26/2010	10/26/2010	10/26/2010	10/26/2010	10/26/2010	10/26/2010	10/26/2010	10/26/2010	10/26/2010
Benzene	1,100	52,000	160	2,600	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1,030	46,200	3200000 ^f	3200000 ^f	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	8,090	362,000	10,000	170,000	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	21,900	1,430,000	3,800	27,000	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	491	22,000	62	1,000	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	313,000	20,400,000	49,000	340,000	150	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	760	34,100	--	--	24	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	10,500	469,000	54	910	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	4,910	220,000	410	6,900	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	313,000	20,400,000	--	--	2700	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	46	2,040	8,200	57,000	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	31.9	1,430	0.019	0.33	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	156,000	10,200,000	2,000,000 ^f	2,000,000 ^f	210	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1,410,000	92,000,000	600,000 ^f	600,000 ^f	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	2,660	119,000	4,000,000	28,000,000	110	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	3,130,000	204,000,000	89,000	620,000	21,918	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	3,130,000	204,000,000	490,000	1,800,000 ^f	349	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	702	31,400	73	1,200	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	782,000	51,100,000	110,000	780,000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156,000	10,200,000	1,300,000 ^f	1,300,000 ^f	55	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	313,000	20,400,000	3,200,000 ^f	3,200,000 ^f	98	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	939	42,100	5,800	40,000	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	313,000	20,400,000	1,700,000 ^f	1,700,000 ^f	640	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1,560,000	102,000,000	400,000 ^f	400,000 ^f	2,900	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	819	36,700	1,500	24,000	120	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (cumene)	1,560,000	102,000,000	--	860,000 ^f	37,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	8,520	382,000	2,600	43,000	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl-ether	--	--	--	10,000,000 ^f	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	60,000	4,000,000	65,000	440,000	400	ND	ND	ND	ND	ND	160	240	ND	ND
n-Propylbenzene	--	--	--	460,000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	3,130,000	204,000,000	1,500,000	1,500,000	370	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	319	14,300	110	1,900	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1,230	55,000	2,000	34,000	4.1	ND	ND	ND	ND	ND	110	120	ND	ND
Toluene	1,250,000	81,800,000	670,000 ^f	670,000 ^f	1,500	ND	ND	ND	ND	ND	ND	100	ND	ND
1,2,3-Trichlorobenzene	--	--	67,000	470,000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	156,000	10,200,000	--	--	540	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane						ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1,120	50,200	190	3,200	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	160	7,150	14	230	3.7	ND	ND	ND	ND	ND	270	340	ND	ND
Trichlorofluoromethane	4,690,000	307,000,000	--	1,600,000 ^f	29,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	9.12	409	--	570,000 ^f	76	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene ¹	782,000	51,100,000	47,000	330,000	7573	ND	ND	ND	37	ND	55	97	ND	ND
1,3,5-Trimethylbenzene ¹	782,000	51,100,000	27,000	190,000	3520	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	42.6	1,910	53	890	0.13	ND	ND	ND	890	ND	ND	ND	ND	ND
Xylenes, total	3,130,000	204,000,000	270,000	1,900,000	4,100	ND	ND	ND	ND	ND	100	270	ND	ND

Notes:
MW-SB-TW-2* : Asterisk denotes samples were analysed one day beyond holding time, see Data Validation sect
WDNR = Wisconsin Department of Natural Resources
All units in ug/kg
Concentrations noted in *italics* exceed the Groundwater Pathway standards.
Concentrations noted in **bold** exceed the WDNR non-industrial volatile inhalation standard.
Concentrations in grey cells exceed the WDNR non-industrial direct contact pathway standard.
Direct Contact Pathway and Volatile Inhalation Pathway from WAC 720 Soil Cleanup Standards

Table 4C
PAHs Soil Analytical Data
Former Mirro Plant No. 9 Property
Manitowoc, Wisconsin

Parameters	WDNR Generic RCLs-Data Quality Objectives			Results							
	Direct Contact Pathway		Groundwater	MB-SB-MW-15	MB-SB-MW-17	MB-SB-MW-16A DUP	MB-SB-TW-5	MB-SB-1	MB-SB-8	MB-SB-3	MB-SB-4
	Non-Industrial	Industrial	Pathway	2-4'	2.5-4'	2-4'	2-4'	2-4'	6.5-8'	2-4'	3.5-4'
Sample Date				18-Oct	10/18/2010	10/19/2010	10/29/2010	10/29/2010	10/28/2010	10/26/2010	10/26/2010
Acenaphthene	900,000	60,000,000	38,000	2,000	ND	430	ND	ND	ND	280	ND
Acenaphthylene	18,000	360,000	700	ND	ND	ND	ND	ND	ND	480	ND
Anthracene	5,000,000	300,000,000	3,000,000	2,300	ND	550	8	ND	41	28	500
Benzo(a)anthracene	88	3,900	17,000	2,900	ND	1,300	ND	ND	160	28	1,500
Benzo(a)pyrene	8.8	390	48,000	2,000	ND	1,200	ND	ND	140	28	940
Benzo(b)fluoranthene	88	3,900	360,000	1,000	ND	380	ND	ND	45	28	550
Benzo(ghi)perylene	1,800	39,000	6,800,000	1,900	ND	1,000	ND	ND	110	28	890
Benzo(k)fluoranthene	880	39,000	870,000	1,100	ND	800	ND	ND	110	28	900
Chrysene	8,800	390,000	37,000	3,300	ND	1,500	ND	ND	150	28	1,300
Dibenzo(a,h,)anthracene	8.8	390	38,000	990	ND	570	ND	ND	58	42	540
Fluoroanthene	600,000	40,000,000	500,000	9,500	ND	3,200	47	17	640	56	4,500
Fluorene	600,000	40,000,000	100,000	1,700	ND	280	ND	ND	20	56	430
Indeno(1,2,3-cd)pyrene	88	3,900	680,000	1,000	ND	750	ND	ND	95	28	990
1-Methylnaphthalene	1,100,000	70,000,000	23,000	600	ND	360	ND	ND	ND	170	510
2-Methylnaphthalene	600,000	40,000,000	20,000	6,600	ND	1,700	ND	ND	130	170	2,300
Naphthalene	20,000	110,000	400	2,200	ND	830	ND	ND	68	170	1,400
Phenanthrene	18,000	390,000	1,800	<i>8,800</i>	ND	<i>2,200</i>	24	9	180	28	<i>2,600</i>
Pyrene	500,000	30,000,000	8,700,000	8,900	ND	3,200	ND	ND	540	28	4,000

Notes:

WDNR =

Concentrations noted in *italics* exceed the Groundwater Pathway standards.

Concentrations noted in **bold** exceed the WDNR non-industrial direct contact pathway standard.

Concentrations in grey cells exceed the WDNR industrial direct contact pathway standard.

**Table 4D
PCBs Soil Analytical Data
Former Mirro Plant No. 9 Property
Manitowoc, Wisconsin**

Parameters	WDNR Generic RCLs-Data Quality Objectives			MB-SB-TW-5 2-4'	MB-SB-2 2-3.5'	MB-SB-1 2-4'	MB-SB-1 DUP) 2-4'	MB-SB-9 5.5-8'	MB-SB-10 3-4'	MB-SB-10 5.5-7'	MB-SB-11 3-4'	MB-SB-11 6.5-8'	MB-SB-13 1.5-2'	MB-SB-MW-18 3-4'	MB-SB-MW-18 6.5-8'	1st Floor Transformer Drum 1 Oil - mg/kg	2nd Floor Transformer Drum 1 Oil - mg/kg	Doors #6 & #7 Storm Drain Wipe -total ug
	Direct Contact Pathway		Groundwater															
	Non-Industrial	Industrial	Pathway															
							10/29/2010	10/27/2010	10/27/2010	10/27/2010	10/28/2010	10/28/2010	10/28/2010	10/26/2010	10/26/2010	10/29/2010	10/29/2010	10/29/2010
Aroclor 1016	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<50000	<50000	<250
Aroclor 1221	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<50000	<50000	<250
Aroclor 1232	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<50000	<50000	<250
Aroclor 1242	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<50000	<50000	<250
Aroclor 1248	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<50000	<50000	<250
Aroclor 1254	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<50000	<50000	<250
Aroclor 1260	NS	NS	NS	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	460,000	500,000	7,600

Notes:

WDNR = Wisconsin Department of Natural Resources

All Units mg/kg, except Wipe Sample (Doors 6 7 &, which is in total micrograms).

Table 5A
Metals Groundwater Analytical Data
Former Mirro Plant No. 9 Property
Manitowoc, Wisconsin

Parameters	NR 140 Standards		Federal MCL/ MCLG	Results (ug/l)								
	ES	PAL		MB-GW-MW-14 11/23/2010	MB-GW-MW-19 11/23/2010	MB-GW-GP-12 11/23/2010	MB-GW-TW-1 11/23/2010	MB-GW-TW-2 11/23/2010	MB-GW-MW-15 11/16/2010	MB-GW-MW-15 Dup 11/16/2010	MB-GW-MW-16 11/16/2010	MB-GW-MW-17 11/16/2010
Aluminum	200	40	ns	330	ND	13000	210	160	460	2100	ND	3800
Antimony	6	1.2	6	ND	ND	ND	ND	ND	ND	ND	ND	1.1
Arsenic	10	1	10	0.81	3.1	4.6	0.71	3.7	1.5	1.9	3.5	1.7
Barium	2000	400	2000	210	16	230	19	32	79	87	30	140
Beryllium	4	0.4	4	ND	ND	0.76	ND	ND	ND	0.14	ND	0.25
Cadmium	5	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	ns	ns	ns	200000	79000	450000	48000	100000	140000	200000	73000	310000
Chromium	100	10	100	ND	ND	18	ND	1.1	0.81	2.6	ND	7
Cobalt	40	8	--	0.65	ND	8.5	ND	ND	1	1.9	ND	5.3
Copper	1300	130	1000(5)	1.4	3.5	23	2.3	2.7	1.8	4.4	1.2	17
Iron	0.3	0.15	--	2800	ND	24000	390	440	1500	3900	420	7800
Lead	15	1.5	15	ND	ND	9	ND	ND	ND	1.3	ND	3.9
Magnesium	ns	ns	ns	81000	34000	230000	19000	75000	63000	96000	37000	230000
Manganese	300	60	--	230	61	870	75	10	150	260	100	320
Mercury	2	0.2	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	20	--	ND	ND	10	ND	ND	ND	ND	ND	4.9
Potassium	ns	ns	ns	13000	7800	10000	8800	11000	7100	6600	560	34000
Selenium	50	10	50	ND	0.9	ND	1	1.3	ND	ND	ND	0.89
Silver	50	10	1005	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	ns	ns	ns	150000	63000	220000	44000	120000	60000	56000	17000	170000
Thallium	2	0.4	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	5	2.5	--	ND	ND	30	ND	ND	ND	6.4	ND	14

Notes:

All units in ug/l (micrograms/liter)

1. Detections noted in *italics* indicate concentrations exceed the NR 140 PAL Standard.

2. Detections noted in **bold** indicate concentrations exceed the NR 140 ES Standard.

ns = No Standard NR 140 ES or PAL established

ES = Enforcement Standard

PAL = Preventive Action Limit

Method Reporting Limit for Zinc exceeded applicable criteria in MW-5, MW-16, MW-14, MW-19, TW-1 and TW-2

Method Reporting Limit for iron exceeded applicable criteria in MW-19

Table 5B
Volatile Organic Compounds Groundwater Analytical Data
Former Mirro Plant No. 9 Property
Manitowoc, Wisconsin

Parameters	NR 140 Standards			Federal	Results (ug/l)										
	ES	PAL	MCL/MCLG		MB-GW-MW-14	MB-GW-MW-19	MB-GW-GP-12	MB-GW-MW-20		MB-GW-TW-1	MB-GW-TW-2	MB-GW-MW-15	MB-GW-MW-16A	MB-GW-MW-16	MB-GW-MW-17
					11/23/2010	11/23/2010	11/23/2010	DUP	11/23/2010	11/23/2010	11/23/2010	11/16/2010	11/16/2010	11/16/2010	11/16/2010
Benzene	5.00	0.50	5.00	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	
Bromobenzene	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromochloromethane	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	0.60	0.60	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromoform	4.40	0.44	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromomethane	10.00	1.00	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
n-Butylbenzene	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
sec-Butylbenzene	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
tert-Butylbenzene	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon tetrachloride	5.00	0.50	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	100.00	20.00	100.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorodibromomethane	60.00	6.00	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane	400.00	80.00	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	6.00	0.60	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloromethane	3.00	0.30	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Chlorotoluene	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Chlorotoluene	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-chloropropane	0.20	0.02	0.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromoethane	0.05	0.01	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibromomethane	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	600.00	60.00	600.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	1250.00	125.00	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	75	15	75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	1,000	200	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	850	85	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	0	0	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	7	1	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	70	7	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9	ND	
trans-1,2-Dichloroethene	100	20	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane	5	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichloropropane	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	700	140	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Isopropylbenzene (cumene)	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
p-Isopropyltoluene	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	5	1	ns	2	5.6	2.2	2	1.5	5.1	2	ND	ND	ND	ND	
Methyl-tert-butyl-ether	60	12	ns	ND	ND	ND	ND	ND	ND	ND	0.58	ND	ND	ND	
Naphthalene	100	10	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
n-Propylbenzene	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Styrene	100	10	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane	70	7	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	0	0	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	5	0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	1,000	200	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	ns	ns	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	70	14	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	200	40	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	5	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	5	1	5	ND	0.36	ND	ND	ND	ND	0.31	ND	ND	ND	ND	
1,2,3-Trichloropropane	60	12	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	480	96	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	480	96	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	0.2	0.0	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylenes, total	10,000	1,000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes
Detections noted in *italics* indicate concentrations exceed the NR 140 PAL Standard.

ns = No Standard NR 140 ES or PAL established

ES = Enforcement Standard

PAL = Preventive Action Limit

All units in ug/l (micrograms/liter)

1,2 dibromo-3-chloropropane and 1,2 dibromomethane Method Reporting Limits (ND) exceeded applicable reporting criteria.

**Table 5C
PAH Groundwater Analytical Data
Former Mirro Plant No. 9 Property
Manitowoc, Wisconsin**

Parameters	NR 140 Standards		Federal MCL/MCLG	Results		
	ES	PAL		MB-GW-TW-1 ug/l	MB-GW-TW-2 ug/l	MB-GW-MW-16 ug/l
Sample Date				11/23/2010	11/23/2010	11/16/2010
Acenaphthene	900,000	60,000,000	38,000	ND	ND	ND
Acenaphthylene	18,000	360,000	700	ND	ND	ND
Anthracene	5,000,000	300,000,000	3,000,000	ND	ND	ND
Benzo(a)anthracene	88	3,900	17,000	ND	ND	ND
Benzo(a)pyrene	8.8	390	48,000	ND	ND	ND
Benzo(b)fluoranthene	88	3,900	360,000	ND	ND	ND
Benzo(ghi)perylene	1,800	39,000	6,800,000	ND	ND	ND
Benzo(k)fluoranthene	880	39,000	870,000	ND	ND	ND
Chrysene	8,800	390,000	37,000	ND	ND	ND
Dibenzo(a,h,)anthracene	8.8	390	38,000	ND	ND	ND
Fluroanthene	600,000	40,000,000	500,000	ND	ND	ND
Fluorene	600,000	40,000,000	100,000	ND	ND	ND
Indeno(1,2,3-cd)pyrene	88	3,900	680,000	ND	ND	ND
1-Methylnaphthalene	1,100,000	70,000,000	23,000	ND	ND	ND
2-Methylnaphthalene	600,000	40,000,000	20,000	ND	ND	ND
Naphthalene	20,000	110,000	400	ND	ND	ND
Phenanthrene	18,000	390,000	1,800	ND	ND	ND
Pyrene	500,000	30,000,000	8,700,000	ND	ND	ND

Notes:

All units in micrograms/liter (ug/l)

Table 6

Summary of Groundwater Elevations
Former Mirro Plant No. 9
Manitowoc, WI

Date	WI Unique Well No.	Well ID	Ground Surface Elevation (Feet)	TPVC Elevation (Feet)	Screen Interval (Feet)	Screen Interval Elevation (Feet)	Depth to Water below TPVC (Feet)	Water Elevation below TPVC (feet)	Depth to Product	Product Thickness
11/16/2010	VT081	MW-14	605.68	605.33	5.0-15.0	600.68-590.68	7.70	597.63	--	--
11/23/2010							7.60	597.73	--	--
11/16/2010	VT082	MW-15	601.56	601.09	5.0-15.0	596.56-586.56	7.10	593.99	--	--
11/23/2010							7.08	594.01	--	--
11/16/2010	VT083	MW-16	599.60	598.95	5.0-15.0	594.60-584.60	8.17	590.78	--	--
11/23/2010							8.06	590.89	--	--
11/16/2010	VT084	MW-16A	599.65	599.29	25.0-30.0	574.65-569.65	5.10	594.19	--	--
11/23/2010							5.05	594.24	--	--
11/16/2010	VT085	MW-17	600.86	600.34	5.0-15.0	595.86-585.86	7.23	593.11	--	--
11/23/2010							7.06	593.28	--	--
11/16/2010	NA	MW-18	NS	NS	6.0-16.0	NA	--	--	--	--
11/23/2010							13.81	--	12.95	0.86
11/16/2010	NA	MW-19	NS	NS	6.0-16.0	NA	--	--	--	--
11/23/2010							11.39	--	--	--
11/16/2010	NA	TW-1	NS	NS	2.0-12.0	NA	--	--	--	--
11/23/2010							10.40	--	ND	--
11/16/2010	NA	TW-2	NS	NS	2.0-12.0	NA	--	--	--	--
11/23/2010							10.64	--	ND	--
11/16/2010	NA	TW-5	NS	NS	0.0-5.0	NA	--	--	--	--
11/23/2010							DRY	--	--	--
11/16/2010	NA	SB-5	NS	NS	6.0-16.0	NA	--	--	--	--
11/23/2010							13.25	--	13.46	0.21

Notes:

- TPVC - Top of PVC
- Not Measured
- NS - Not Surveyed
- NA - Not Applicable
- ND - No Detection

APPENDIX A

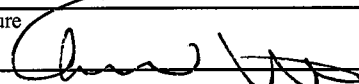
SOIL BORING AND MONITORING WELL LOGS

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

Facility/Project Name Former Mirro Plant #9			License/Permit/Monitoring Number		Boring Number MW-14	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push			Date Drilling Started 10/18/2010	Date Drilling Completed 10/18/2010	Drilling Method HSA	
WI Unique Well No. VT081	DNR Well ID No.	Common Well Name MW-14	Final Static Water Level Feet MSL		Surface Elevation 605.68 Feet MSL	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Long _____ ° _____ ' _____ "		Feet <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 21.6		1	Concrete	Concrete										
				Fill: Crushed gravel	Fill										
2 GP	48 36		2	Fill: Fine grain sand, some rounded gravel	Fill										
				Fill; fine sand with some gravel, pale white/tan color	Fill										
				Silt with some sand, light brown, moist	ML										
				Clay, dark brown, moist	CL										
				Clay, red/brown, moist	ML										
				Silt with some fine sand, light brown, moist	ML										
3 GP	48 48		3	Silt, light brown, moist	CL										
				Silty clay, light brown with brown red mottling, moist	CL										
4 GP	48 36		4	Silt, light brown/gray, moist to wet	ML										
				Silt with fine sand, gray, wet	SM										
					SM										
					SM										
			5	Silt with fine sand, gray, wet	SM										
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
			16												
				End of boring at 16.0' 2" PVC well with 10.0' screen set from 4.0' to 14.0' BGS											

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

Signature:  Firm: **AECOM** Tel: _____ Fax: _____

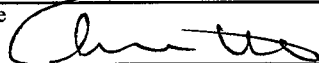
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number MW-15	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push		Date Drilling Started 10/18/2010	Date Drilling Completed 10/18/2010	Drilling Method HSA	
WI Unique Well No. VT082	DNR Well ID No.	Common Well Name MW-15	Final Static Water Level Feet MSL	Surface Elevation 601.56 Feet MSL	Borehole Diameter 8.00 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Lat _____ ° _____ ' _____ "	Long _____ ° _____ ' _____ "		
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 21.60		1	Asphalt	Asphalt									
				Concrete (Driller's Observation)	Concrete									
				Fill: 1/2" gravel with fine silty sand, light gray, dry	Fill									
2 GP	48 30		2	Fill: Dark brown silty sand seam	Fill			0.6						
				Fill: Fine sand with some silt, brown, moist	Fill									
				Fine sand with some silt, light brown, moist										
				1/2" angular gravel	SP-SM					0.3				
3 GP	48 48		3	Fine sand with some silt, light brown with mottling, gray from 7.7-8'	SP-SM			0.4						
				Silt with fine sand, gray with black particles, wet										
					SM					0.4				
4 GP	48 36		4	Fine grain sand with silt, light brown/brown, wet	SM			1.1						
				Silt, gray, wet	ML					0.5				
				End of boring at 16.0' 2" PVC well with 10.0' screen set from 5.5' to 15.5' BGS										

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

Signature 	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number MW-16	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push		Date Drilling Started 10/18/2010	Date Drilling Completed 10/18/2010	Drilling Method HSA	
WI Unique Well No. VT083	DNR Well ID No.	Common Well Name MW-16		Final Static Water Level Feet MSL	Surface Elevation 599.60 Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Lat _____ ° _____ ' _____ "	Long _____ ° _____ ' _____ "		Feet _____ Feet _____
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample	Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
				1	Blind drilled. See MW-16A for boring log. 2" PVC well with 10.0' screen set from 5.0' to 15.0' BGS											
				2												
				3												
				4												
				5												
				6												
				7												
				8												
				9												
				10												
				11												
				12												
				13												
				14												
				15												
				16												

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Signature Firm **AECOM** Tel: _____ Fax: _____

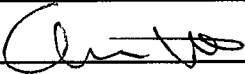
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Mirro Plant #9			License/Permit/Monitoring Number		Boring Number MW-16A	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push			Date Drilling Started 10/19/2010	Date Drilling Completed 10/19/2010	Drilling Method HSA	
WI Unique Well No. VT084	DNR Well ID No.	Common Well Name MW-16A	Final Static Water Level Feet MSL		Surface Elevation 599.65 Feet MSL	Borehole Diameter 8.00 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E			Lat _____ ° _____ ' _____ "		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		













Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 24		1	Concrete	Concrete										
			2	Fill: Sandy silt with some 1/2" angular gravel, dark brown, dry	Fill										
2 GP	48 36		3	Fill: Silty fine grain sand, brown, dry/moist, water at 8.5'				0.2							
			4												
			5	Fill	Fill				0.1						
3 GP	48 48		6												
			7	Fill: Silt, gray/brown, wet	Fill				0.1						
4 GP	48 36		8												
			9	Fill	Fill				0.1						
5 GP	48 48		10												
			11												
			12	Silt, gray/brown, wet, wood piece and black particles at 15.5'	ML				0.2						
5 GP	48 48		13												
			14												
5 GP	48 48		15												
			16	Silt, gray/brown, wet	ML										
5 GP	48		17	Silty clay, sticky, gray, brown, wet	CL			0.2							

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Boring Number **MW-16A** Use only as an attachment to Form 4400-122.


Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
6 GP	48 48		18	Silty clay, sticky, gray, brown, wet <i>(continued)</i>	CL									
			19											
7 GP	48 36		20	Clay, gray/brown, moist to wet	CL									
			21											
			22						0.2					
8 GP	24 12		23	Fine to medium grain sand with some silt, gray, wet	SP									
			24											
			25		Fine grain sandy silt, gray, wet	SM								
			26					0.5						
			27	Medium grain sandy 1/4" semi rounded gravel with some silt, wet	SP									
			28	Medium coarse grain sandy 1/4" semi rounded gravel with some silt, gray with multi color gravel, wet	GP-GM									
			29											
			30	End of boring at 30.0' 2" PVC well with 5.0' screen set from 25.0' to 30.0' BGS										
								0.3						

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

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number MW-17	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push		Date Drilling Started 10/18/2010	Date Drilling Completed 10/18/2010	Drilling Method HSA	
WI Unique Well No. VT085	DNR Well ID No.	Common Well Name MW-17	Final Static Water Level Feet MSL	Surface Elevation 600.88 Feet MSL	Borehole Diameter 8.00 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Lat _____ ° _____ ' _____ "	Long _____ ° _____ ' _____ "		
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 30		1	Asphalt	Asphalt									
			2	Concrete or large gravel (per Driller) Fill: 1/4" gravel with some sand, fill, gray and black, dry	Fill				0.4					
2 GP	48 36		3	Fill: Fine sand with some silt, poorly graded, light brown, dry to moist	Fill				0.7					
			4	Sandy silt, light brown/brown, moist, wet at 7.0'										
3 GP	48 48		5											
			6											
4 GP	48 36		7											
			8		SM				1.1					
			9											
			10											
			11											
			12	Silt, brown, wet										
			13											
			14		ML									
			15											
			16											
				End of boring at 16.0' 2" PVC well with 10.0' screen set from 5.0' to 15.0 BGS										

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Signature  Firm **AECOM** Tel: _____ Fax: _____

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

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number MW-18	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/26/2010	Date Drilling Completed 10/26/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No. MW-18	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 2.00 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location			
State Plane SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Lat _____ ° _____ ' _____ "	Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 30		1	Concrete	Concrete										
				Fill: Silty gravel	Fill										
2 GP	48 30		2	Fill: Clayey silt, moist to dry, semi plastic, brown	Fill			0.9							
				Fill: Silty gravel (6" concrete per Driller)	Fill										
				Fine grain sandy silt, yellowish brown, moist, wet at 10.0'											
3 GP	48 36		4					0.5							
4 GP	48 48		7		SM			0.6							
			8					3.3							
			11	Silt with some fine grain sand, wet, strong petroleum odor, gray	SM			3.5							
			12	Silt, brown, wet, sheen at 15.8', slight petroleum odor											
			13		ML			0.7							
			14					0.6							
			15												
			16	End of boring at 16.0'											
				1" prepack PVC well with 10.0' screen set from 6.0' to 16.0' BGS											

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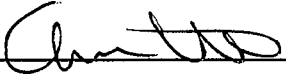
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number MW-19	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/28/2010	Date Drilling Completed 10/28/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-19		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Lat _____ ° _____ ' _____ "	Long _____ ° _____ ' _____ "		Feet _____ Feet _____
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 24		1	Fill: Silty sand with 1/4 - 1/2" gravel, brown and gray, moist	Fill										
			2	Fill: Sandy silt with fine grain gravel, yellowish brown, moist	Fill										
2 GP	48 30		3	Fill: Sandy, medium grain material, possibly coal slag, dark brown/black, dry, some shiny coal like 1/4"	Fill			0.5							
			4	Silt with some fine grain sand, few 1/4" gravel, yellowish brown, moist to wet	ML										
3 GP	48 48		5					0.5							
			6		ML										
4 GP	48 48		8	Fine grain silty sand, yellowish brown with some grayish red, wet	SM			0.4							
			9		SM										
4 GP	48 48		12	Silt with some fine grain sand, yellowish brown with some red and gray, wet	ML			0.4							
			13		ML										
			15	Silt, gray, moist to wet	ML			0.4							
			16	End of boring at 16.0' 1" PVC prepack well with 10.0' screen set from 6.0' to 16.0' BGS											

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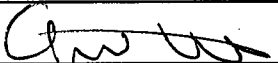
Signature  Firm **AECOM** Tel: _____ Fax: _____

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

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number MW-20	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/26/2010	Date Drilling Completed 10/26/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-20	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.00 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Lat _____ ° _____ ' _____ "		Local Grid Location	
State Plane SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Long _____ ° _____ ' _____ "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 24		1	Wood Floor				1.8							
				Concrete	Concrete										
2 GP	48 36		2	Fill: Silty sandy, moist, black, brown, black coal/slag material at 3.0'	Fill			1.0							
			4	Silt, moist, yellowish brown, moist	ML										
			5	Fine grain silty sand, pale yellowish brown, dry to moist	SM										
3 GP	48 30		6	Silt with some fine grain sand, yellowish brown, moist	ML			0.6							
			8	Fine grain sandy silt, reddish brown, wet	SM										
4 GP	48 48		12	Fine grain sandy silt, brown, wet	SM			0.8							
				End of boring at 16.0' 1" PVC prepack well with 10.0' screen set from 6.0' to 16.0' BGS											

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

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number SB-1	
Boring Drilled By: Name of crew chief (first, last) and Firm Andrew Mott AECOM		Date Drilling Started 10/29/2010	Date Drilling Completed 10/29/2010	Drilling Method Hand Auger	
WI Unique Well No.	DNR Well ID No.	Common Well Name SB-1	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.00 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30 , T 19 N, R 23 E		County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 HA	46		1	Concrete	Concrete			△							
				Void											
			2	Fill: Brown, silty sand, moist	Fill										
			3	Fill: Brown, silty sand, wet at 4.0'	Fill										
			4	Fill: Brown, silt, fine sand, wet, some wood	Fill										
			5	Refusal at 5.0' - due to wood Backfilled with bentonite.											

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Signature Firm **AECOM** Tel: _____ Fax: _____

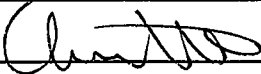
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number SB-4	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/26/2010	Date Drilling Completed 10/26/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name SB-4		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Long _____ ° ' "		Feet _____ Feet _____	
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 12		1	Concrete	Concrete										
			2	Fill: Sandy silt, 1/2 - 1/4" gravel, brown, moist	Fill										
2 GP	48 18		4	Fill: Silty gravel (1/4" - 1/2") white/gray, dry, with some yellow brick	Fill			0.7							
			7	Silty sandy, brown, moist	Fill			0.6							
3 GP	48 6		8	Sandy, silty clay, moist, brown, some 1" gravel	CL										
			12	Silty coarse grain sand, moist to wet, strong petroleum odor End of boring at 12.0' Boring backfilled with bentonite.	SM			120							

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

Signature 	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number SB-2	
Boring Drilled By: Name of crew chief (first, last) and Firm Andrew Mott AECOM		Date Drilling Started 10/29/2010	Date Drilling Completed 10/29/2010	Drilling Method Hand Auger	
WI Unique Well No.	DNR Well ID No.	Common Well Name SB-2	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.00 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E			Long _____ ° _____ ' _____ "		
Facility ID		County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 HA	42		1	Concrete	Concrete			Δ							
			2	Fill: Brown, silt, fine to medium sand, moist, trace cinders	Fill										
			3	Fill: Gray, silty sand, wet, trace cinders and wood	Fill										
				Refusal at 3.5' due to wood Backfilled with bentonite.											

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

Signature Firm **AECOM** Tel: _____ Fax: _____

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

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number SB-3	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/26/2010	Date Drilling Completed 10/26/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name SB-3	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.00 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Lat _____ ° _____ ' _____ "	Long _____ ° _____ ' _____ "	Feet <input type="checkbox"/> N <input type="checkbox"/> E	Feet <input type="checkbox"/> S <input type="checkbox"/> W
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 24		1	Concrete	Concrete									
			2	Fill: Sandy silt with fine gravel, brown with some reddish brown clay	Fill									
2 GP	48 30		4					2.0						
			6	Silty clay, reddish brown, moist	CL			0.8	0.6					
3 GP	48 36		8											
			10	Fine grain sandy silt, yellowish brown, moist, wet at 10.0'	SM			0.8	0.6					
			12	End of boring at 12.0' Backfilled with bentonite.										

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

Signature 	Firm AECOM	Tel: Fax:
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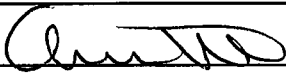
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number SB-5	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/27/2010	Date Drilling Completed 10/27/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name SB-5		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 24		1	Wood Floor Fill: 1" wood pieces (wood floor) medium grain sand with some silt	Fill									
			2	Concrete, 1/4" silty gravel, gray/white, dry	Concrete									
2 GP	48 24		3	Fill: Fine grain silty sand, yellowish brown, moist	Fill			3.0						
			4	Fill: Coarse to 1/4" gravel with coarse sand fill, black, brown and tan, moist	Fill									
			5	Fill: 1/4" to coarse gravel with coarse grain sand, moist, brown, gray and black, with some brick at 6.25'	Fill									
3 GP	48 36		6	Silt with some fine grain sand, yellowish brown, wood pieces from 11.5 - 12.0' gray, moist, medium petroleum odor	Fill			0.3						
			7					0.3						
			8	Fill				0.4						
			9					2.5						
4 GP	48 24		10	Silty with some fine grain sand, dry to moist, gray and black	SM			1.1						
			11					0.3						
			12					End of boring at 16.0' 1" PVC well with 10.0' screen set from 6.0' to 16.0' BGS						

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


Signature 	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number SB-7	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/27/2010	Date Drilling Completed 10/27/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name SB-7	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.00 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Lat _____ ° _____ ' _____ "	Long _____ ° _____ ' _____ "		
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 30		1	Concrete	Concrete										
			2	Fill: Coarse grain sandy silt, black/dark brown, moist	Fill										
2 GP	48 30		4	Fill: Silty clay, stiff, reddish brown, moist	Fill			1.0							
			5	Fine grain sandy silt, moist, yellowish brown											
3 GP	48 48		8		SM			0.7							
			9					1.2							
			10												
			11												
			12	End of boring at 12.0' Backfilled with bentonite.				0.7							



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

Signature  Firm **AECOM** Tel: _____ Fax: _____

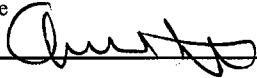
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number SB-8	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/28/2010	Date Drilling Completed 10/28/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name SB-8	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.00 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Lat _____ ° _____ ' _____ "	Long _____ ° _____ ' _____ "		
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200			
			1	Wood Floor												
			2	3 feet Void												
1 GP	48 18		3	Fill: Fine to medium grain sandy silt with 1" concrete pieces, yellowish brown, moist	Fill			0.4								
			4													
			5													
			6													
2 GP	48 30		7	Silt with some clay, brown with some reddish brown, moist	ML			0.5								
			8													
			9													
			10													
			11	End of boring at 12.0' Backfilled with bentonite.												
			12													

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

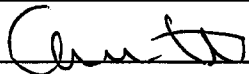
Signature  Firm **AECOM** Tel: _____ Fax: _____

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

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number SB-9	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/27/2010	Date Drilling Completed 10/27/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name SB-9		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Lat _____"	Long _____"		Feet _____"
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 6		1	Concrete	Concrete									
			2	Fill: Silty gravel	Fill			0.5						
2 GP	48 30		4	Fine grain silty sand, yellowish brown, moist										
			5					1.1						
3 GP	48 48		8		SM									
			9					0.6						
			12	End of boring at 12.0' Backfilled with bentonite.										

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

Signature  Firm **AECOM** Tel: _____ Fax: _____

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

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number SB-10	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/27/2010	Date Drilling Completed 10/27/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name SB-10		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Lat _____"	Long _____"	Feet _____	
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 12		1	Concrete	Concrete										
			2	Fill: Silt with some fine gravel, moist, brown, gray, dark brown											
2 GP	48 30		4	Fill	Fill			1.3							
			7					0.5							
3 GP	48 30		8	Fill: Gravel 1/2" - 1/4" silty white/gray per Driller - 4" concrete	Fill			0.6							
			9	Fine grain silty sand, brown, moist	SP			0.5							
			10	Fine grain sandy silt, brown, wet	SM										
			12	Silt, moist, light brown/gray	ML										
				End of boring at 12.0' Backfilled with bentonite. Refusal on 1st attempt. Offset and advanced boring.											

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

Signature  Firm **AECOM** Tel: _____ Fax: _____

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

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number SB-11	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/28/2010	Date Drilling Completed 10/28/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name SB-11		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Long _____ ° _____ ' _____ "		Feet _____ Feet _____	
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 12		1	Concrete	Concrete										
			2	Fill: Sandy silt with some fine gravel, yellowish brown, moist to dry	Fill										
2 GP	48 18		4	Sandy silt, yellowish brown, moist, wet at 8.0'				0.2							
			5												
3 GP	48 12		8		SM			0.5							
			9												
			12	End of boring at 12.0' Backfilled boring with bentonite.				0.5							

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

Signature Firm **AECOM** Tel: _____ Fax: _____

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

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number SB-12	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/28/2010	Date Drilling Completed 10/28/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name SB-12		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Lat _____ ' _____ "	Long _____ ' _____ "	Feet _____ Feet _____	
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 18		1	Concrete											
			2	Fill: Fine to medium grain sandy silt with some fine gravel, yellowish brown, moist	Fill			0.7							
2 GP	36 24		4	Fine grain sandy silt, moist, yellowish brown (reddish 5-6'), 1/2" fine gravel seam at 5.5'	SM			0.6							
			7	End of boring at 7.0' due to refusal backfilled boring with bentonite.											

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

Signature Firm **AECOM** Tel: _____ Fax: _____

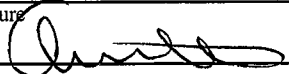
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number TW-1	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/26/2010	Date Drilling Completed 10/26/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name TW-1	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.00 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Lat _____ ' _____"	Long _____ ' _____"		
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 24		1	6" concrete	Concrete									
			2	Fill: Silty grave, light gray, dry	Fill				19					
			3	Fill: Silty clay, reddish brown, moist to dry	Fill				0.7					
2 GP	48 30		4	Fine grain sandy silt, yellowish brown with some gray and red mottling, moist	SM									
			5					3.0						
3 GP	48 36		6						0.4					
			7						0.4					
			8	Fine grain sandy silt, reddish brown, moist, wet at 9.5'							0.4			
			9							0.4				
			10											
			11											
			12	End of boring at 12.0' 1.25" PVC well with 10.0' screen set from 2.0' to 12.0' BGS										

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

Signature  Firm **AECOM** Tel: _____ Fax: _____

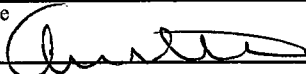
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number TW-2	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/26/2010	Date Drilling Completed 10/26/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name TW-2		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		County Manitowoc		County Code 36	Civil Town/City/ or Village Manitowoc

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 24		1	Wood Floor											
			2	Fill: Wood pieces and fine grain sandy silt, dry to moist, brown	Fill			17							
2 GP	48 24		4												
			5					0.6							
3 GP	48 30		8	Silty fine grain sand, moist, light brown											
			9		SM			0.4							
			12	End of boring at 12.0' 1.25" PVC well with 10.0' screen set from 2.0' to 12.0' BGS											


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

Signature  Firm **AECOM** Tel: _____ Fax: _____


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

Facility/Project Name Former Mirro Plant #9		License/Permit/Monitoring Number		Boring Number TW-4	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony On-Site Environmental		Date Drilling Started 10/26/2010	Date Drilling Completed 10/26/2010	Drilling Method Hydraulic Push Probe	
WI Unique Well No.	DNR Well ID No.	Common Well Name TW-4		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E		Long _____ "		Feet _____ Feet _____	
Facility ID	County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 12		1 2 3 4	Fill: Sandy silt, dry to moist, yellowish brown	Fill			0.2							
				End of boring at 4.0' Refusal two different times due to concrete. Backfilled with bentonite.											

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

Signature  Firm **AECOM** Tel: _____ Fax: _____

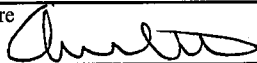
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Facility/Project Name Former Mirro Plant #9			License/Permit/Monitoring Number		Boring Number TW-5	
Boring Drilled By: Name of crew chief (first, last) and Firm Andrew Mott AECOM			Date Drilling Started 10/29/2010	Date Drilling Completed 10/29/2010	Drilling Method Hand Auger	
WI Unique Well No.	DNR Well ID No.	Common Well Name TW-5	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 2.00 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "			
SW 1/4 of NE 1/4 of Section 30, T 19 N, R 23 E			Long _____ ° _____ ' _____ "			
Facility ID		County Manitowoc	County Code 36	Civil Town/City/ or Village Manitowoc		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	54		1	Concrete	Concrete			<1						
			2	Fill: Gray, silt, fine sand, moist	Fill									
			3	Fill: Gray, silt, fine sand, wet at 3.5', sample collected at 3.0'	Fill									
			4	Fill: Gray, silt, fine sand, wet and some wood	Fill									
				Refusal at 4.5' - due to wood Temp well set at 4.5'										

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

Signature 	Firm AECOM	Tel: Fax:
--	----------------------	--------------

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA / City of Manitowoc</u>	
SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N; R. <u>23</u> W (If applicable)	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA / City of Manitowoc</u>	
	Gov't Lot _____ Grid Number _____	Street or Route <u>1521 Washington St.</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>Manitowoc, WI, 54220</u>		
Civil Town Name	Facility Well No. and/or Name (If Applicable) <u>MW-18</u>		WI Unique Well No. _____
Street Address of Well <u>1521 Washington Street</u>	Reason For Abandonment <u>Temporary Well</u>		
City, Village <u>City of Manitowoc</u>	Date of Abandonment <u>1/5/11</u>		

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) <u>13.09</u>	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/26/10</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft.) <u>16</u> Casing Diameter (ins.) <u>1.0</u> (From ground surface) Casing Depth (ft.) <u>6</u> Was Well Annular Space Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>5</u> Feet		(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
		(6) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite For monitoring wells and monitoring well boreholes only: <input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped bentonite</u>	Surface	<u>16.0</u>	<u>.25 Sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
Aecom

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/5/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>DeshMoines, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA/City of Manitowoc</u>	
SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N; R. <u>23</u> W (If applicable)	Gov't Lot _____ Grid Number _____	Present Well Owner <u>EPA/City of Manitowoc</u>	
		Street or Route <u>1521 Washington St.</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>Manitowoc, WI, 54220</u>		
Civil Town Name	Facility Well No. and/or Name (If Applicable) <u>mw-19</u>		WI Unique Well No. _____
Street Address of Well <u>1521 Washington Street</u>	Reason For Abandonment <u>Temporary well</u>		
City, Village <u>City of Manitowoc</u>	Date of Abandonment <u>1/5/11</u>		

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/29/2010</u></p> <p><input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole</p> <p>Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) <u>16.0</u> Casing Diameter (ins.) <u>1.0</u> (From ground surface)</p> <p>Casing Depth (ft.) <u>6</u></p> <p>Was Well Annular Space Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>5</u> Feet</p>	<p>(4) Depth to Water (Feet) <u>11.41</u></p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite</p> <p><input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout</p>
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(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped Bentonite</u>	Surface	<u>16.0</u>	<u>.25 sack</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/5/11</u>
Street or Route <u>533 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Douglas, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA/City of Manitowoc</u>	Present Well Owner <u>EPA/City of Manitowoc</u>
(If applicable) SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N.; R. <u>23</u> W		Street or Route <u>1521 Washington St.</u>	
Gov't Lot _____ Grid Number _____		City, State, Zip Code <u>Manitowoc, WI, 54220</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Facility Well No. and/or Name (If Applicable) <u>mw-20</u>	
Civil Town Name		WI Unique Well No. _____	
Street Address of Well <u>1521 Washington Street</u>		Reason For Abandonment <u>Temporarily Monitoring well</u>	
City, Village <u>City of Manitowoc</u>		Date of Abandonment <u>1/5/11</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/20/10</u></p> <p><input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole</p> <p>Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) <u>16</u> Casing Diameter (ins.) <u>1.0</u> (From ground surface)</p> <p>Casing Depth (ft.) <u>6</u></p> <p>Was Well Annular Space Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>5</u> Feet</p>	<p>(4) Depth to Water (Feet) <u>13.25</u></p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite</p> <p><input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout</p>

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped Bentonite</u>	Surface	<u>16</u>	<u>.25 sack</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/8/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Douglas, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA/City of Manitowoc</u>	
<u>SW 1/4 of NE 1/4 of Sec. 30 ; T. 19 N; R. 23</u> (If applicable)	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA/City of Manitowoc</u>	
Gov't Lot	Grid Number	Street or Route <u>1521 Washington St.</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code <u>Manitowoc, WI 54220</u>	
Civil Town Name		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
Street Address of Well <u>1521 Washington Street</u>		<u>5B-1</u>	
City, Village <u>City of Manitowoc</u>		Reason For Abandonment <u>Boiling</u>	
		Date of Abandonment <u>10/29/10</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>12/29/10</u>		(4) Depth to Water (Feet)	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) <u>Hand auger</u>	Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)	Casing Depth (ft.) _____	(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain)	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		(6) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite	
		For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped bentonite</u>	Surface	<u>5.0</u>	<u>.10 Sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/5/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Douglas, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (if Known) <u>EPA / City of Manitowoc</u>	
<u>SW 1/4 of NE 1/4 of Sec. 30 ; T. 19 N. R. 23</u> (If applicable)	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA / City of Manitowoc</u>	
Gov't Lot	Grid Number	Street or Route <u>1521 Washington St.</u>	
Grid Location		City, State, Zip Code <u>Manitowoc, WI, 54220</u>	
ft. <input type="checkbox"/> N. <input type="checkbox"/> S.,	ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Facility Well No. and/or Name (If Applicable) <u>SB-2</u>	WI Unique Well No.
Civil Town Name		Reason For Abandonment <u>Barium</u>	
Street Address of Well <u>1521 Washington St</u>		Date of Abandonment <u>10/29/10</u>	
City, Village <u>City of Manitowoc</u>			

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On		(4) Depth to Water (Feet)	
(Date) <u>10/29/10</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
<input type="checkbox"/> Monitoring Well	Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
<input type="checkbox"/> Water Well		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
<input type="checkbox"/> Drillhole		Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<input checked="" type="checkbox"/> Borehole		If No, Explain _____	
Construction Type:		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<input checked="" type="checkbox"/> Other (Specify) <u>Hand Aired</u>	<input type="checkbox"/> Dug	Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Formation Type:		If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock		
Total Well Depth (ft.) _____	Casing Diameter (ins.) _____	(5) Required Method of Placing Sealing Material	
(From ground surface)		<input checked="" type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
Casing Depth (ft.) _____		<input type="checkbox"/> Dump Bailer	<input type="checkbox"/> Other (Explain)
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Feet	(6) Sealing Materials	
If Yes, To What Depth? _____		<input type="checkbox"/> Neat Cement Grout	For monitoring wells and monitoring well boreholes only
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	
		<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Pellets
		<input type="checkbox"/> Clay-Sand Slurry	<input type="checkbox"/> Granular Bentonite
		<input type="checkbox"/> Bentonite-Sand Slurry	<input type="checkbox"/> Bentonite - Cement Grout
		<input type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped Bentonite</u>	Surface	<u>3.5</u>	<u>.1 Sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/3/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Douglas, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA/City of Manitowoc</u>	
<u>SW 1/4 of NE 1/4 of Sec. 30 ; T. 19 N. R. 23</u> (If applicable)	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA/City of Manitowoc</u>	
Gov't Lot	Grid Number	Street or Route <u>1521 Washington St.</u>	
Grid Location	ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>Manitowoc, WI, 54220</u>	
Civil Town Name		Facility Well No. and/or Name (If Applicable) <u>SB-3</u>	WI Unique Well No.
Street Address of Well		Reason For Abandonment <u>Soil Boring</u>	
City, Village <u>City of Manitowoc</u>		Date of Abandonment <u>10/26/10</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/26/10</u>		(4) Depth to Water (Feet)	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Formation Type: <input type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)	Casing Depth (ft.) _____	(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		(6) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite	For monitoring wells and monitoring well boreholes only <input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped Bentonite</u>	Surface	<u>12.0</u>	<u>.20 Sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/3/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Dowagiac, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA / City of Manitowoc</u>	
SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N; R. <u>23</u> (If applicable)	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA / City of Manitowoc</u>	
	Gov't Lot _____ Grid Number _____	Street or Route <u>1521 Washington St.</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>Manitowoc, WI, 54220</u>		
Civil Town Name _____	Facility Well No. and/or Name (If Applicable) <u>58-4</u>		WI Unique Well No. _____
Street Address of Well <u>1521 Washington St</u>	Reason For Abandonment <u>soil boring</u>		
City, Village <u>City of Manitowoc</u>	Date of Abandonment <u>10/26/2010</u>		

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/26/2010</u></p> <p><input type="checkbox"/> Monitoring Well <input type="checkbox"/> Construction Report Available? <input type="checkbox"/> Water Well <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole</p> <p>Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)</p> <p>Casing Depth (ft.) _____</p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) _____</p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>(5) Required Method of Placing Sealing Material</p> <p><input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____</p>	<p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite</p> <p><input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout</p>

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped Bentonite</u>	Surface	<u>12</u>	<u>.2 Sack</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work

AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/3/11</u>
Street or Route <u>583 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Deshnesh, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA/City of Manitowoc</u>	
(If applicable) SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N; R. <u>23</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Gov't Lot _____	Present Well Owner <u>EPA/City of Manitowoc</u>	
	Grid Number _____	Street or Route <u>1521 Washington St.</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Civil Town Name _____	City, State, Zip Code <u>Manitowoc, WI, 54220</u>	
Street Address of Well <u>1521 Washington St</u>	City, Village <u>City of Manitowoc</u>	Facility Well No. and/or Name (If Applicable) <u>SB-5</u>	WI Unique Well No. _____
Reason For Abandonment <u>Temporary Monitoring Well</u>		Date of Abandonment <u>1/5/2011</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) <u>13.45</u>	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>12/27/10</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft.) <u>16</u> Casing Diameter (ins.) <u>1.0</u> (From ground surface) Casing Depth (ft.) <u>6</u> Was Well Annular Space Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>4</u> Feet		(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
		(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped Bentonite</u>	Surface	<u>16</u>	<u>1.25 sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/5/11</u>
Street or Route <u>533 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Dowagiac, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA / City of Manitowoc</u>	
SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N; R. <u>23</u> W (If applicable)	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA / City of Manitowoc</u>	
		Street or Route <u>1521 Washington St.</u>	
Grid Location	Grid Number	City, State, Zip Code <u>Manitowoc, WI 54220</u>	
ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Facility Well No. and/or Name (If Applicable) <u>53-7</u>	
Civil Town Name		WI Unique Well No.	
Street Address of Well <u>1521 Washington Street</u>		Reason For Abandonment <u>Soil Boring</u>	
City, Village <u>City of Manitowoc</u>		Date of Abandonment <u>10/27/2010</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/27/2010</u>	<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(4) Depth to Water (Feet)
		Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)		(5) Required Method of Placing Sealing Material
Casing Depth (ft.) _____	Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		
		(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite <input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped Bentonite</u>	Surface	<u>12.0</u>	<u>10 sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work

AECOM
Signature of Person Doing Work _____ Date Signed 1/3/11
Street or Route _____ Telephone Number (920) 230-6713
553 North Main St.
City, State, Zip Code Douglas, WI 54902

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected _____ District/County _____
Reviewer/Inspector _____
Follow-up Necessary _____

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA/City of Manitowoc</u>	
(If applicable) SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N. R. <u>23</u>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA/City of Manitowoc</u>	
	Gov't Lot _____	Street or Route <u>1521 Washington St.</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>Manitowoc, WI, 54220</u>		
Civil Town Name	Facility Well No. and/or Name (If Applicable) <u>SB-8</u>		WI Unique Well No. _____
Street Address of Well <u>1521 Washington St.</u>	Reason For Abandonment <u>Soil Boring</u>		
City, Village <u>City of Manitowoc</u>	Date of Abandonment <u>10/26/2010</u>		

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/26/2010</u></p> <p><input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole</p> <p>Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)</p> <p>Casing Depth (ft.) _____</p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet)</p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material</p> <p><input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite</p> <p><input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout</p>
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(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped Bentonite</u>	Surface	<u>12.0</u>	<u>.2 Sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/3/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Deshmoh, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
<i>SW 1/4 of NE 1/4 of Sec. 30 ; T. 19 N; R. 23</i> (If applicable)	<i>Manitowoc</i>	<i>EPA / City of Manitowoc</i>	
Gov't Lot	Grid Number	Present Well Owner	
		<i>EPA / City of Manitowoc</i>	
Grid Location		Street or Route	
		<i>1521 Washington St.</i>	
ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code	
Civil Town Name		<i>Manitowoc, WI, 54220</i>	
Street Address of Well		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
<i>1521 Washington St.</i>		<i>SB-9</i>	
City, Village		Reason For Abandonment	
<i>City of Manitowoc</i>		<i>Soil bearing</i>	
		Date of Abandonment	
		<i>10/27/2010</i>	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)
(Date) <i>10/27/2010</i>	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well	Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
<input type="checkbox"/> Water Well	Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
<input type="checkbox"/> Drillhole	Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Borehole	If No, Explain _____
Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No
Construction Type:	Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Other (Specify) _____	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Formation Type:	(5) Required Method of Placing Sealing Material
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped
Total Well Depth (ft.) _____ Casing Diameter (ins.) _____	<input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____
(From ground surface)	(6) Sealing Materials For monitoring wells and monitoring well boreholes only
Casing Depth (ft.) _____	<input type="checkbox"/> Neat Cement Grout
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	<input type="checkbox"/> Sand-Cement (Concrete) Grout
If Yes, To What Depth? _____ Feet	<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Pellets
	<input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite
	<input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite - Cement Grout
	<input type="checkbox"/> Chipped Bentonite

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<i>Chipped Bentonite</i>	Surface	<i>12</i>	<i>2 Sacks</i>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work

AECOM

Signature of Person Doing Work	Date Signed
<i>[Signature]</i>	<i>1/3/11</i>
Street or Route	Telephone Number
<i>553 North Main St.</i>	<i>(920) 230-6713</i>
City, State, Zip Code	
<i>Doulish, WI 54902</i>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole Location <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA/City of Manitowoc</u>
<u>SW 1/4 of NE 1/4 of Sec. 30 ; T. 19 N; R. 23</u> (If applicable)	Present Well Owner <u>EPA/City of Manitowoc</u>
Gov't Lot _____ Grid Number _____	Street or Route <u>1521 Washington St.</u>
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>Manitowoc, WI, 54220</u>
Civil Town Name _____	Facility Well No. and/or Name (If Applicable) <u>SB-10</u>
Street Address of Well <u>1521 Washington St.</u>	Reason For Abandonment <u>Soil boring</u>
City, Village <u>City of Manitowoc</u>	Date of Abandonment <u>10/27/2010</u>
WELL/DRILLHOLE/BOREHOLE INFORMATION	

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/27/2010</u></p> <p><input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole</p> <p>Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)</p> <p>Casing Depth (ft.) _____</p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) _____</p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>(5) Required Method of Placing Sealing Material</p> <p><input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____</p>	
<p>(6) Sealing Materials</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite</p> <p style="text-align:right;">For monitoring wells and monitoring well boreholes only</p> <p><input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout</p>	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Bentonite Pellets</u>	Surface	<u>12.0</u>	<u>.20 sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/3/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Douglas, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA/City of Manitowoc</u>	
SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N; R. <u>23</u> W (If applicable)	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA/City of Manitowoc</u>	
		Street or Route <u>1521 Washington St.</u>	
Grid Location	Gov't Lot _____ Grid Number _____	City, State, Zip Code <u>Manitowoc, WI 54220</u>	
_____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Civil Town Name	Facility Well No. and/or Name (If Applicable) <u>SB-11</u>	WI Unique Well No. _____
Street Address of Well <u>1521 Washington St.</u>		Reason For Abandonment <u>Soil Borings</u>	
City, Village <u>City of Manitowoc</u>		Date of Abandonment <u>10/23/2010</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/23/2010</u></p> <p> <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole </p> <p>Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </p> <p>Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____ </p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock </p> <p>Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)</p> <p>Casing Depth (ft.) _____</p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet)</p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p> <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite </p> <p> <input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout </p>
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(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped bentonite</u>	Surface	<u>120</u>	<u>.2 Sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/3/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Deshler, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA/City of Manitowoc</u>	
SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N; R. <u>23</u> (If applicable)	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA/City of Manitowoc</u>	
	Gov't Lot _____ Grid Number _____	Street or Route <u>1521 Washington St.</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>Manitowoc, WI, 54220</u>		
Civil Town Name	Facility Well No. and/or Name (If Applicable) <u>SB-12</u>		WI Unique Well No. _____
Street Address of Well <u>1521 Washington St.</u>	Reason For Abandonment <u>Soil boring</u>		
City, Village <u>City of Manitowoc</u>	Date of Abandonment <u>10/29/2010</u>		

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/29/2010</u></p> <p> <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole </p> <p>Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </p> <p>Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____ </p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock </p> <p>Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)</p> <p>Casing Depth (ft.) _____</p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet)</p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p> <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite </p> <p> <input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout </p>
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(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>chipped bentonite</u>	Surface	<u>2.0</u>	<u>.10 sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work

AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/3/11</u>
Street or Route <u>583 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>DeshMoines, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>SW 1/4 of NE 1/4 of Sec. 30 ; T. 19 N; R. 23</u> (If applicable)	County <u>Monitowoc</u>	Original Well Owner (If Known) <u>EPA / City of Manitowoc</u>	
Gov't Lot _____	Grid Number _____	Present Well Owner <u>EPA / City of Manitowoc</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Street or Route <u>1521 Washington St.</u>	
Civil Town Name		City, State, Zip Code <u>Manitowoc, WI, 54220</u>	
Street Address of Well <u>1521 Washington St.</u>		Facility Well No. and/or Name (If Applicable) <u>TW-1</u>	
City, Village <u>City of Manitowoc</u>		WI Unique Well No. _____	
		Reason For Abandonment <u>Temporarily Monitoring Well</u>	
		Date of Abandonment <u>1/5/2011</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/26/2010</u></p> <p><input type="checkbox"/> Monitoring Well <input type="checkbox"/> Construction Report Available? <input type="checkbox"/> Water Well <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole</p> <p>Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) <u>12</u> Casing Diameter (ins.) <u>1.0</u> (From ground surface)</p> <p>Casing Depth (ft.) <u>2</u></p> <p>Was Well Annular Space Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>1.0</u> Feet</p>	<p>(4) Depth to Water (Feet) <u>10.45</u></p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Explain <u>Casing removed</u></p> <p>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain)</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite</p> <p><input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout</p>

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped bentonite</u>	Surface	<u>12.0</u>	<u>.2 sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/5/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Deshmoh, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA/City of Manitowoc</u>	
(If applicable) SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N; R. <u>23</u>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA/City of Manitowoc</u>	
	Gov't Lot _____ Grid Number _____	Street or Route <u>1521 Washington St.</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>Manitowoc, WI 54220</u>		
Civil Town Name	Facility Well No. and/or Name (If Applicable) <u>TW-2</u>		WI Unique Well No. _____
Street Address of Well <u>1521 Washington St.</u>	Reason For Abandonment <u>Temporary Monitoring Well</u>		
City, Village <u>City of Manitowoc</u>	Date of Abandonment <u>1/5/2011</u>		

WELL/DRILLHOLE/BOREHOLE INFORMATION	
<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>12/24/2010</u></p> <p><input checked="" type="checkbox"/> Monitoring Well Construction Report Available? <input type="checkbox"/> Water Well <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole</p> <p>Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) <u>12</u> Casing Diameter (ins.) <u>40</u> (From ground surface)</p> <p>Casing Depth (ft.) <u>2</u></p> <p>Was Well Annular Space Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>1</u> Feet</p>	<p>(4) Depth to Water (Feet) <u>19.05</u></p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Explain <u>Casing removed</u></p> <p>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>(5) Required Method of Placing Sealing Material</p> <p><input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain)</p>	
<p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite</p> <p><input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout</p>	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped bentonite</u>	Surface	<u>12.0</u>	<u>1.2 Sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/5/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Manitowish, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA / City of Manitowoc</u>	
(If applicable) SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N; R. <u>23</u> W	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA / City of Manitowoc</u>	
	Gov't Lot _____ Grid Number _____	Street or Route <u>1521 Washington St.</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>Manitowoc, WI 54220</u>		
Civil Town Name	Facility Well No. and/or Name (If Applicable) <u>TW-41</u>		WI Unique Well No. _____
Street Address of Well <u>1521 Washington St</u>	Reason For Abandonment <u>Soil boring</u>		
City, Village <u>City of Manitowoc</u>	Date of Abandonment <u>10/20/2010</u>		

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet)	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/20/2010</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	(5) Required Method of Placing Sealing Material	
Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)	Casing Depth (ft.) _____	<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	(6) Sealing Materials		
	For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite		

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped bentonite</u>	Surface	<u>4.0</u>	<u>.13 sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work

AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/3/11</u>
Street or Route <u>533 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Douglas, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA / City of Manitowoc</u>	
SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N; R. <u>23</u> W (If applicable)	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA / City of Manitowoc</u>	
	Gov't Lot _____ Grid Number _____	Street or Route <u>1521 Washington St.</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>Manitowoc, WI 54220</u>		
Civil Town Name	Facility Well No. and/or Name (If Applicable) <u>TW-5</u>		WI Unique Well No. _____
Street Address of Well <u>1521 Washington St.</u>	Reason For Abandonment <u>Temporary Monitoring Well</u>		
City, Village <u>City of Manitowoc</u>	Date of Abandonment <u>1/5/01</u>		

WELL/DRILLHOLE/BOREHOLE INFORMATION			
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>10/29/2010</u>	<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Other (Specify) <u>Hand Poured</u> Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft.) <u>7.5</u> Casing Diameter (ins.) <u>2.0</u> (From ground surface) Casing Depth (ft.) <u>0</u> Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	(4) Depth to Water (Feet) <u>DRY</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain <u>Removed</u> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
		(5) Required Method of Placing Sealing Material	(6) Sealing Materials
		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Other (Explain)	For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite <input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped Bentonite</u>	Surface	<u>7.5</u>	<u>.1 Sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/3/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>De Pere, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Monitowoc</u>	Original Well Owner (If Known) <u>EPA/City of Monitowoc</u>	
(If applicable) SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N; R. <u>23</u> W	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA/City of Monitowoc</u>	
	Gov't Lot _____ Grid Number _____	Street or Route <u>1521 Washington St.</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>Monitowoc, WI 54220</u>		
Civil Town Name	Facility Well No. and/or Name (If Applicable) <u>GP-2</u>		WI Unique Well No. _____
Street Address of Well <u>1521 Washington Street</u>	Reason For Abandonment <u>Temporarily Monitoring Well</u>		
City, Village <u>City of Monitowoc</u>	Date of Abandonment <u>1/5/2011</u>		

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>2/10/2009</u> <input checked="" type="checkbox"/> Monitoring Well Construction Report Available? <input type="checkbox"/> Water Well <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____ Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft.) <u>12</u> Casing Diameter (ins.) <u>1.0</u> (From ground surface) Casing Depth (ft.) <u>2</u> Was Well Annular Space Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>1.0</u> Feet	(4) Depth to Water (Feet) <u>3.21</u> Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____ Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped Bentonite</u>	Surface	<u>12.0</u>	<u>.2 sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/5/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Douglas, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>SW 1/4 of NE 1/4 of Sec. 30 ; T. 19 N. R. 23</u> (If applicable)	County <u>Monitowoc</u>	Original Well Owner (If Known) <u>EPA / City of Monitowoc</u>	
Gov't Lot _____	Grid Number _____	Present Well Owner <u>EPA / City of Monitowoc</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Street or Route <u>1521 Washington St.</u>	
Civil Town Name <u>City of Monitowoc</u>		City, State, Zip Code <u>Monitowoc, WI 54220</u>	
Street Address of Well <u>1521 Washington St.</u>		Facility Well No. and/or Name (If Applicable) <u>GP-3</u>	
City, Village <u>City of Monitowoc</u>		WI Unique Well No. _____	
		Reason For Abandonment <u>Temporary Monitoring Well</u>	
		Date of Abandonment <u>1/5/2011</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On
(Date) 2/14/2009

Monitoring Well
 Water Well
 Drillhole
 Borehole

Construction Report Available?
 Yes No

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (Specify) _____

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth (ft.) 12 Casing Diameter (ins.) 1.0
(From ground surface)

Casing Depth (ft.) 2

Was Well Annular Space Grouted? Yes No Unknown
If Yes, To What Depth? 1.0 Feet

(4) Depth to Water (Feet) 3.14

Pump & Piping Removed? Yes No Not Applicable
Liner(s) Removed? Yes No Not Applicable
Screen Removed? Yes No Not Applicable
Casing Left in Place? Yes No
If No, Explain _____

Was Casing Cut Off Below Surface? Yes No
Did Sealing Material Rise to Surface? Yes No
Did Material Settle After 24 Hours? Yes No
If Yes, Was Hole Retopped? Yes No

(5) Required Method of Placing Sealing Material
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Dump Bailer Other (Explain) _____

(6) Sealing Materials
 Neat Cement Grout
 Sand-Cement (Concrete) Grout
 Concrete
 Clay-Sand Slurry
 Bentonite-Sand Slurry
 Chipped Bentonite

For monitoring wells and monitoring well boreholes only
 Bentonite Pellets
 Granular Bentonite
 Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped Bentonite</u>	Surface	<u>12</u>	<u>25 sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work
[Signature] Date Signed 1/3/11 || Street or Route 553 North Main St. | Telephone Number (920) 230-6713 |
| City, State, Zip Code Dowagiac, WI 54902 | |

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected _____ District/County _____

Reviewer/Inspector _____

Follow-up Necessary _____

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (If Known)	
	Manitowoc	EPA / City of Manitowoc	
SW 1/4 of NE 1/4 of Sec. 30 ; T. 19 N; R. 23 (If applicable)	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner	
		EPA / City of Manitowoc	
Gov't Lot	Grid Number	Street or Route	
		1521 Washington St.	
Grid Location		City, State, Zip Code	
		Manitowoc, WI, 54220	
Civil Town Name		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
		GP-4	
Street Address of Well		Reason For Abandonment	
1521 Washington St.		Temporary Monitoring Well	
City, Village		Date of Abandonment	
City of Manitowoc		1/5/2011	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)
(Date) 2/10/2009	12.98
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____
Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	(5) Required Method of Placing Sealing Material
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____
Total Well Depth (ft.) 12.0 Casing Diameter (ins.) 1.0 (From ground surface)	(6) Sealing Materials
Casing Depth (ft.) 2.0	For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite
Was Well Annular Space Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? 1.0 Feet	<input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	1.2	.2 sacks	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work

AECOM

Signature of Person Doing Work	Date Signed
<i>[Signature]</i>	1/3/11
Street or Route	Telephone Number
553 North Main St.	(920) 230-6713
City, State, Zip Code	
Douglas, WI 54902	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>SW 1/4 of NE 1/4 of Sec. 30 ; T. 19 N; R. 23</u> (If applicable)	County <u>Monitowoc</u>	Original Well Owner (If Known) <u>EPA / City of Monitowoc</u>	
Gov't Lot _____	Grid Number _____	Present Well Owner <u>EPA / City of Monitowoc</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Civil Town Name _____	Street or Route <u>1521 Washington St.</u>	
Street Address of Well <u>1521 Washington St.</u>	City, Village <u>City of Monitowoc</u>	City, State, Zip Code <u>Monitowoc, WI 54220</u>	
		Facility Well No. and/or Name (If Applicable) <u>GP-5</u>	
		WI Unique Well No. _____	
		Reason For Abandonment <u>Temporary Monitoring Well</u>	
		Date of Abandonment <u>1/5/2011</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>2/17/2009</u></p> <p><input checked="" type="checkbox"/> Monitoring Well Construction Report Available? <input type="checkbox"/> Water Well <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole</p> <p>Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) <u>12</u> Casing Diameter (ins.) <u>1.0</u> (From ground surface)</p> <p>Casing Depth (ft.) <u>2.0</u></p> <p>Was Well Annular Space Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>1.0</u> Feet</p>	<p>(4) Depth to Water (Feet) <u>10.26</u></p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Chipped Bentonite</p>

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped Bentonite</u>	Surface	<u>12.0</u>	<u>20 sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/5/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Johnson, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Manitowoc</u>	Original Well Owner (If Known) <u>EPA / City of Manitowoc</u>	
SW 1/4 of NE 1/4 of Sec. <u>30</u> ; T. <u>19</u> N. R. <u>23</u> (If applicable)	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <u>EPA / City of Manitowoc</u>	
	Gov't Lot _____ Grid Number _____	Street or Route <u>1521 Washington St.</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	City, State, Zip Code <u>Manitowoc, WI, 54220</u>		
Civil Town Name	Facility Well No. and/or Name (If Applicable) <u>GP-12</u>		WI Unique Well No. _____
Street Address of Well <u>1521 Washington St.</u>	Reason For Abandonment <u>Temporarily Monitoring Well</u>		
City, Village <u>City of Manitowoc</u>	Date of Abandonment <u>1/5/2011</u>		

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) <u>9.62</u>	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>2/17/2009</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Construction Report Available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	(5) Required Method of Placing Sealing Material	
Total Well Depth (ft.) <u>18</u> Casing Diameter (ins.) <u>1.0</u> (From ground surface)	Casing Depth (ft.) <u>2</u>	<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
Was Well Annular Space Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>1.0</u> Feet	(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite <input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout		

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Chipped bentonite</u>	Surface	<u>12.0</u>	<u>.20 Sacks</u>	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AECOM

Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>1/3/11</u>
Street or Route <u>553 North Main St.</u>	Telephone Number <u>(920) 230-6713</u>
City, State, Zip Code <u>Deshmoh, WI 54902</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

APPENDIX B

SITE PHOTOGRAPHS

PHOTOGRAPHIC LOG

Client Name:
AES/EPA

Site Location:
Former Mirro Plant No. 9

Project No.:
60163491

Photo No.
1

Date:
10-18-10

Direction Photo Taken:

West

Description:

Typical Soil boring/well installation work area.



Photo No.
2

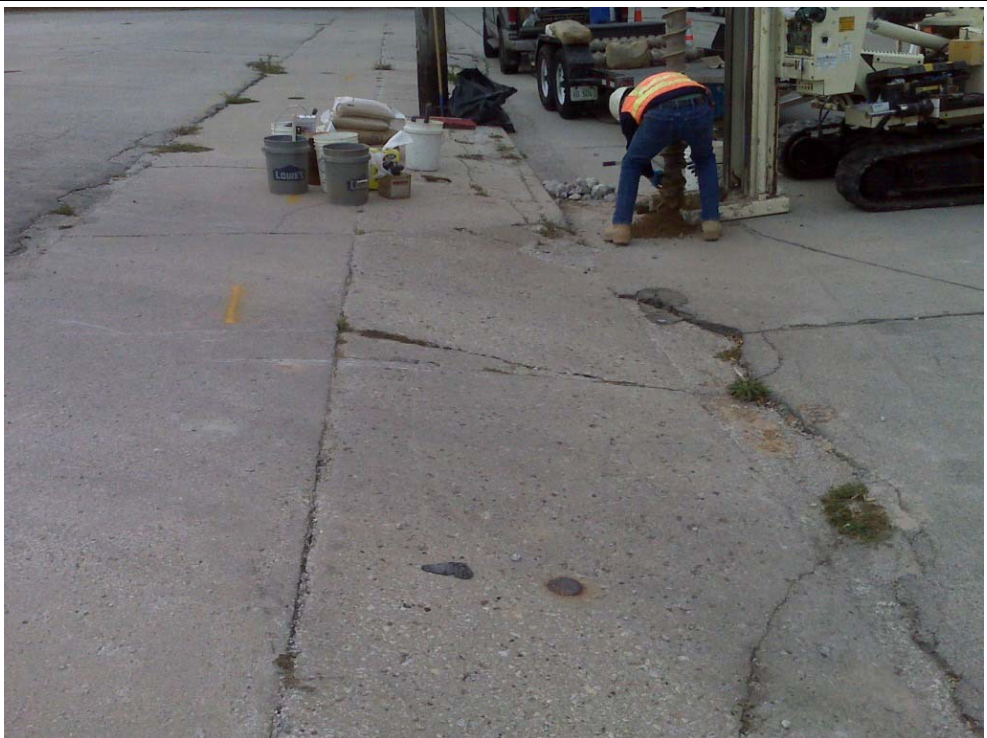
Date:
10-18-10

Direction Photo Taken:

South

Description:

View of drill rig and soil boring advancement.



PHOTOGRAPHIC LOG

Client Name:
AES/EPA

Site Location:
Former Mirro Plant No. 9

Project No.:
60163491

Photo No.
3

Date:
10-19-10

Direction Photo Taken:

North

Description:

View of completed soil boring for NR141 Monitoring Well.



Photo No.
4

Date:
10-23-10

Direction Photo Taken:

North

Description:

Typical view of low flow sampling performed on NR141 Monitoring Wells.



PHOTOGRAPHIC LOG

Client Name:
AES/EAP

Site Location:
Former Mirro Plant No. 9

Project No.:
60163491

Photo No.
5

Date:
10-23-10

Direction Photo Taken:

Southeast

Description:

Typical view of Temporary Monitoring Well installation.



Photo No.
6

Date:
10-23-10

Direction Photo Taken:

Northwest

Description:

Typical view of Temporary Monitoring Well purging and sampling.



PHOTOGRAPHIC LOG

Client Name:
AES/EPA

Site Location:
Former Mirro Plant No. 9

Project No.:
60163491

Photo No.
7

Date:
10-29-10

Direction Photo Taken:

Northwest

Description:

Hand auger sampling of TW-5. Refusal at 4.5' due to wood. Wood can be observed in the hand auger.



Photo No.
8

Date:
10-26-10

Direction Photo Taken:

Northeast

Description:

Collecting hand auger sample SB-1 (2.0'-4.0').



PHOTOGRAPHIC LOG

Client Name:
AES/EPA

Site Location:
Former Mirro Plant No. 9

Project No.:
60163491

Photo No.
9

Date:
10-29-10

Direction Photo Taken:

Northwest

Description:

View of SB-1, SB-2, and TW-5 sampling locations in the building's basement. TW-5 can be observed in the right side of the photo.



Photo No.
10

Date:
10-29-10

Direction Photo Taken:

Southeast

Description:

Dock door Nos. 6 and 7 catch basin PCB Wipe Sample. Catch basin is located in the lower right corner of the photo.



PHOTOGRAPHIC LOG

Client Name:
AES/EPA

Site Location:
Former Mirro Plant No. 9

Project No.:
60163491

Photo No.
11

Date:
10-29-10

Direction Photo Taken:

Southwest

Description:

First floor transformer drum area. Drum No. 1 located in the lower left of photo was sampled for PCBs.



Photo No.
12

Date:
10-29-10

Direction Photo Taken:

North

Description:

Second floor transformer drum area. Drum No. 1 located in foreground was sampled for PCBs.



PHOTOGRAPHIC LOG

Client Name:
AES/EPA

Site Location:
Former Mirro Plant No. 9

Project No.:
60163491

Photo No.
13

Date:
1-5-11

Direction Photo Taken:

North

Description:

View of interior building in the location of TMW-1 and MW018 depicting abandoned temporary monitoring wells.



Photo No.
14

Date:
1-5-11

Direction Photo Taken:

South

Description:

View of interior building in the location of MW-19, depicting abandoned temporary monitoring well.



PHOTOGRAPHIC LOG

Client Name:
AES/EPA

Site Location:
Former Mirro Plant No. 9

Project No.:
60163491

Photo No.
15

Date:
1-5-11

Direction Photo Taken:

South

Description:

Loading and removal of site investigation wastes.



Photo No.
16

Date:
1-5-11

Direction Photo Taken:

East

Description:

View of site investigation waste drum storage area in Alley way depicting drums removed.



APPENDIX C

LABORATORY ANALYTICAL DATA REPORTS

November 15, 2010

Client: AECOM ENVIRONMENT - OSHKOSH
558 North Main Street
Oshkosh, WI 54901

Work Order: WTK0160
Project Name: Former Mirro Plant
Project Number: 60163491 EPA TBA Manitowoc, WI

Attn: Mr. Andrew Mott

Date Received: 11/03/10

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1st Floor Transformer-Drum 1	WTK0160-01	10/29/10 14:15
2nd Floor Transformer-Drum 1	WTK0160-02	10/29/10 14:45
Dool Doors #6 & #7-Storm Drain	WTK0160-03	10/29/10 15:00

Samples were received on ice into laboratory at a temperature of 0 °C.

Wisconsin Certification Number: 128053530

The Chain(s) of Custody, -1 pages, are included and are an integral part of this report.

Unless subcontracted, volatiles analyses (including VOC, PVOC, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.

Approved By:



TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

AECOM ENVIRONMENT - OSHKOSH
 558 North Main Street
 Oshkosh, WI 54901
 Mr. Andrew Mott

Work Order: WTK0160
 Project: Former Mirro Plant
 Project Number: 60163491 EPA TBA Manitowoc, V

Received: 11/03/10
 Reported: 11/15/10 11:44

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0160-01 (1st Floor Transformer-Drum 1 - Oil)						Sampled: 10/29/10 14:15			
Polychlorinated Biphenyls in Oil by EPA Method 8082									
PCB-1016	<50000		mg/kg	50000	50000	11/11/10 13:56	CLJ	10K0269	SW 8082
PCB-1221	<50000		mg/kg	50000	50000	11/11/10 13:56	CLJ	10K0269	SW 8082
PCB-1232	<50000		mg/kg	50000	50000	11/11/10 13:56	CLJ	10K0269	SW 8082
PCB-1242	<50000		mg/kg	50000	50000	11/11/10 13:56	CLJ	10K0269	SW 8082
PCB-1248	<50000		mg/kg	50000	50000	11/11/10 13:56	CLJ	10K0269	SW 8082
PCB-1254	<50000		mg/kg	50000	50000	11/11/10 13:56	CLJ	10K0269	SW 8082
PCB-1260	460000		mg/kg	50000	50000	11/11/10 13:56	CLJ	10K0269	SW 8082
<i>Surr: Decachlorobiphenyl (60-130%)</i>	0.00 %	Z3							
<i>Surr: Tetrachloro-meta-xylene (60-130%)</i>	0.00 %	Z3							
Sample ID: WTK0160-02 (2nd Floor Transformer-Drum 1 - Oil)						Sampled: 10/29/10 14:45			
Polychlorinated Biphenyls in Oil by EPA Method 8082									
PCB-1016	<50000		mg/kg	50000	50000	11/11/10 14:20	CLJ	10K0269	SW 8082
PCB-1221	<50000		mg/kg	50000	50000	11/11/10 14:20	CLJ	10K0269	SW 8082
PCB-1232	<50000		mg/kg	50000	50000	11/11/10 14:20	CLJ	10K0269	SW 8082
PCB-1242	<50000		mg/kg	50000	50000	11/11/10 14:20	CLJ	10K0269	SW 8082
PCB-1248	<50000		mg/kg	50000	50000	11/11/10 14:20	CLJ	10K0269	SW 8082
PCB-1254	<50000		mg/kg	50000	50000	11/11/10 14:20	CLJ	10K0269	SW 8082
PCB-1260	500000		mg/kg	50000	50000	11/11/10 14:20	CLJ	10K0269	SW 8082
<i>Surr: Decachlorobiphenyl (60-130%)</i>	0.00 %	Z3							
<i>Surr: Tetrachloro-meta-xylene (60-130%)</i>	0.00 %	Z3							
Sample ID: WTK0160-03 (Dool Doors #6 & #7-Storm Drain - Wipe)						Sampled: 10/29/10 15:00			
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<250		Total ug	250	5000	11/11/10 14:45	CLJ	10K0235	SW 8082
PCB-1221	<250		Total ug	250	5000	11/11/10 14:45	CLJ	10K0235	SW 8082
PCB-1232	<250		Total ug	250	5000	11/11/10 14:45	CLJ	10K0235	SW 8082
PCB-1242	<250		Total ug	250	5000	11/11/10 14:45	CLJ	10K0235	SW 8082
PCB-1248	<250		Total ug	250	5000	11/11/10 14:45	CLJ	10K0235	SW 8082
PCB-1254	<250		Total ug	250	5000	11/11/10 14:45	CLJ	10K0235	SW 8082
PCB-1260	7600		Total ug	250	5000	11/11/10 14:45	CLJ	10K0235	SW 8082
<i>Surr: Decachlorobiphenyl (10-157%)</i>	0.00 %	Z3							
<i>Surr: Tetrachloro-meta-xylene (36-148%)</i>	0.00 %	Z3							

AECOM ENVIRONMENT - OSHKOSH
558 North Main Street
Oshkosh, WI 54901
Mr. Andrew Mott

Work Order: WTK0160
Project: Former Mirro Plant
Project Number: 60163491 EPA TBA Manitowoc, V

Received: 11/03/10
Reported: 11/15/10 11:44

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Polychlorinated Biphenyls by EPA Method 8082							
SW 8082	10K0235	WTK0160-03	1	50	11/08/10 09:27	TLH	Default Prep GC-Sen
Polychlorinated Biphenyls in Oil by EPA Method 8082							
SW 8082	10K0269	WTK0160-01	1	10	11/09/10 09:53	KJK	Default Prep GenChe
SW 8082	10K0269	WTK0160-02	1	10	11/09/10 09:53	KJK	Default Prep GenChe

AECOM ENVIRONMENT - OSHKOSH
 558 North Main Street
 Oshkosh, WI 54901
 Mr. Andrew Mott

Work Order: WTK0160
 Project: Former Mirro Plant
 Project Number: 60163491 EPA TBA Manitowoc, V

Received: 11/03/10
 Reported: 11/15/10 11:44

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Polychlorinated Biphenyls by EPA Method 8082														
PCB-1016	10K0235			Total ug	N/A	0.25	<0.25							
PCB-1221	10K0235			Total ug	N/A	0.25	<0.25							
PCB-1232	10K0235			Total ug	N/A	0.25	<0.25							
PCB-1242	10K0235			Total ug	N/A	0.25	<0.25							
PCB-1248	10K0235			Total ug	N/A	0.25	<0.25							
PCB-1254	10K0235			Total ug	N/A	0.25	<0.25							
PCB-1260	10K0235			Total ug	N/A	0.25	<0.25							
Surrogate: Decachlorobiphenyl	10K0235			Total ug						125		10-157		
Surrogate: Tetrachloro-meta-xylene	10K0235			Total ug						113		36-148		
Polychlorinated Biphenyls in Oil by EPA Method 8082														
Surrogate: Decachlorobiphenyl	10K0269			mg/kg						40		60-130		25
PCB-1016	10K0269			mg/kg	N/A	0.50	<0.50							
PCB-1221	10K0269			mg/kg	N/A	0.50	<0.50							
PCB-1232	10K0269			mg/kg	N/A	0.50	<0.50							
PCB-1242	10K0269			mg/kg	N/A	0.50	<0.50							
PCB-1248	10K0269			mg/kg	N/A	0.50	<0.50							
PCB-1254	10K0269			mg/kg	N/A	0.50	<0.50							
PCB-1260	10K0269			mg/kg	N/A	0.50	<0.50							
Surrogate: Tetrachloro-meta-xylene	10K0269			mg/kg						105		60-130		

AECOM ENVIRONMENT - OSHKOSH
 558 North Main Street
 Oshkosh, WI 54901
 Mr. Andrew Mott

Work Order: WTK0160
 Project: Former Mirro Plant
 Project Number: 60163491 EPA TBA Manitowoc, V

Received: 11/03/10
 Reported: 11/15/10 11:44

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Polychlorinated Biphenyls by EPA Method 8082														
PCB-1016	10K0235		2.5	Total ug	N/A	0.25	2.45	2.50	98	100	85-151	2	20	
PCB-1221	10K0235			Total ug	N/A	0.25	<0.25	<0.25			75-125		200	
PCB-1232	10K0235			Total ug	N/A	0.25	<0.25	<0.25			75-125		200	
PCB-1242	10K0235			Total ug	N/A	0.25	<0.25	<0.25			75-125		200	
PCB-1248	10K0235			Total ug	N/A	0.25	<0.25	<0.25			75-125		200	
PCB-1254	10K0235			Total ug	N/A	0.25	<0.25	<0.25			75-125		200	
PCB-1260	10K0235		2.5	Total ug	N/A	0.25	2.90	3.15	116	126	65-151	8	26	
Surrogate: Decachlorobiphenyl	10K0235			Total ug					138	138	60-150			
Surrogate: Tetrachloro-meta-xylene	10K0235			Total ug					100	100	60-150			
Polychlorinated Biphenyls in Oil by EPA Method 8082														
Surrogate: Decachlorobiphenyl	10K0269			mg/kg					43		60-130			Z5
PCB-1016	10K0269		2.5	mg/kg	N/A	0.50	2.71		108		70-130			
PCB-1221	10K0269			mg/kg	N/A	0.50	<0.50				70-130			
PCB-1232	10K0269			mg/kg	N/A	0.50	<0.50				70-130			
PCB-1242	10K0269			mg/kg	N/A	0.50	<0.50				70-130			
PCB-1248	10K0269			mg/kg	N/A	0.50	<0.50				70-130			
PCB-1254	10K0269			mg/kg	N/A	0.50	<0.50				70-130			
PCB-1260	10K0269		2.5	mg/kg	N/A	0.50	1.84		74		70-130			
Surrogate: Tetrachloro-meta-xylene	10K0269			mg/kg					115		60-130			

AECOM ENVIRONMENT - OSHKOSH
558 North Main Street
Oshkosh, WI 54901
Mr. Andrew Mott

Work Order: WTK0160
Project: Former Mirro Plant
Project Number: 60163491 EPA TBA Manitowoc, V

Received: 11/03/10
Reported: 11/15/10 11:44

CERTIFICATION SUMMARY

TestAmerica Watertown

Method	Matrix	Nelac	Wisconsin
SW 8082	Solid/Soil	X	X
SW 8082	Wipe		X

AECOM ENVIRONMENT - OSHKOSH
558 North Main Street
Oshkosh, WI 54901
Mr. Andrew Mott

Work Order: WTK0160
Project: Former Mirro Plant
Project Number: 60163491 EPA TBA Manitowoc, V

Received: 11/03/10
Reported: 11/15/10 11:44

DATA QUALIFIERS AND DEFINITIONS

- Z3** The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- Z5** Due to sample matrix effects, the surrogate recovery was outside acceptance limits. Secondary surrogate recovery was within the acceptance limits.

TestAmerica

Watertown Division
602 Commerce Drive
Watertown, WI 53094
Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?

Compliance Monitoring _____

THE LEADER IN ENVIRONMENTAL TESTING

Client Name AECOM Client #: _____

Address: 558 N Main St

City/State/Zip Code: Dshkosh, WI

Project Manager: ANDREW MOTT

Telephone Number: 920.261.6713 Fax: _____

Sampler Name: (Print Name) ANDREW MOTT

Sampler Signature: [Signature]

Project Name: MICROPLT EPA TRA

Project #: 6016391

Site/Location ID: Manitowoc State: WI

Report To: Andrew Mott / Mike Bingham

Invoice To: Mike Bingham / AEC

Quote #: _____ PO#: _____

E-mail address: Andrew.Mott@aec.com.com
heather.cleveland@aec.com.com

TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed: <u>11/10/10</u> <u>per Andrew</u>	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers							Other (Specify) <u>Hexane</u>	Analyze For: <u>PCBS EPA Method 8082</u>	REMARKS	QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other: _____	
							HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None						
01		11/29/10	2:15	6		PCBS OILS									✓			
02		10/29/10	2:45	6		PCBS OILS									✓			Vial
03		11/29/10	3:00	6		SL									✓			sun 20 jar (wipe)

Special Instructions: Analysis performed in accordance with micro EPA TRA QAPP
QA/QC Data Package

Relinquished By: <u>[Signature]</u>	Date: <u>11/2/10</u>	Time: <u>1400</u>	Received By: <u>[Signature]</u>	Date: <u>11/3/10</u>	Time: <u>1700</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

LABORATORY COMMENTS:

Init Lab Temp: _____

Rec Lab Temp: _____

Custody Seals: [Signature] N/A

Bottles Supplied by TestAmerica: [Signature] N

Method of Shipment: [Signature]

Cooler Receipt Log

Work Order(s): _____ Client Name/Project: AELW # of Coolers: 1

1. How did samples arrive? Fed-Ex UPS TestAmerica Client Dunham Speedy _____

Date/time cooler was opened: 11/3/10 By: [Signature] TEMP. ①

2. Were custody seals intact, signed and dated correctly?..... Intact Broken NA
3. Were samples on ice?..... Yes No
4. Does this Project require quick turn around analysis?..... No Yes
5. Are there any short hold time tests? (48hrs or less) No Yes
- Past Hold?..... No Yes

48 hours or less	7 days
Coliform Bacteria 8/30 hours	Aqueous Organic Prep
Chlorine/Hex Cr 24 hours	TS
BOD	TDS
Nitrate/Nitrite (DW is 14 days)	TSS
Sulfite	Sulfide
Orthophosphate	Volatile Solids
Surfactants (MBAS)	

6. Ops Mgr, PM or Analyst informed of short hold?.....Who _____ When _____
7. Other than short hold test , were any samples within 2 days of their hold date No Yes
 Or past their expiration of hold time No Yes
8. Is the date and time of collection recorded? Date Yes No
 Time..... Yes No
9. Were all sample containers listed on the COC received and intact? Yes No
10. Do sample containers received and COC match? Yes No
11. Are dissolved parameters field filtered or being filtered in the lab?..... Field Lab N/A
12. Are sample volumes adequate and preservatives correct for test requested? Vol..... Yes No
 Pres.... Yes No
13. Do VOC samples have air bubbles >6mm?..... No Yes N/A
14. Is an aqueous Trip Blank included?..... Yes No N/A
15. Are any samples on hold? No Yes
16. Are there samples to be subcontracted? No Yes
17. Is a Methanol Trip Blank included?..... Yes No N/A
18. How were VOC soils received? Methanol Sodium Bisulfate Packed Jar Encore Other Water (see options*)
 * Within 48hrs of sampling Past 48hrs of sampling Frozen Not Frozen

If any changes are made to this Work Order after Login, or if comments must be made regarding this cooler, explain them below:

Pages 1 and 2 logged in as WTK0161

December 03, 2010

Client: Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608

Work Order: WTK0161
Project Name: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc, WI

Attn: Mr. Michael Bingham

Date Received: 11/03/10

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MB-SB-TW-5@2-4'	WTK0161-01	10/29/10 11:50
MB-SB-TW-5@2-4'	WTK0161-02	10/29/10 11:52
MB-SB-TW-5@2-4'	WTK0161-03	10/29/10 11:58
MB-SB-2@2-3.5'	WTK0161-04	10/29/10 12:50
MB-SB-2@2-3.5'	WTK0161-05	10/29/10 12:55
MB-SB-2@2-3.5'	WTK0161-06	10/29/10 12:57
MB-SB-1@2-4'	WTK0161-07	10/29/10 13:10
MB-SB-1@2-4'	WTK0161-08	10/29/10 13:15
MB-SB-1@2-4' DUP	WTK0161-09	10/29/10 13:17
MB-SB-1@2-4'	WTK0161-10	10/29/10 13:20
Equipment Blank	WTK0161-11	10/29/10 16:00
Equipment Blank	WTK0161-12	10/29/10 16:03
Equipment Blank	WTK0161-13	10/29/10 16:05
Equipment Blank	WTK0161-14	10/29/10 16:06

Samples were received on ice into laboratory at a temperature of 0 °C.

Wisconsin Certification Number: 128053530

The Chain(s) of Custody, -1 pages, are included and are an integral part of this report.

Unless subcontracted, volatiles analyses (including VOC, P VOC, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.

Approved By:



TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0161
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:33

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0161-01 (MB-SB-TW-5@2-4' - Soil)						Sampled: 10/29/10 11:50			
General Chemistry Parameters									
% Solids	83		%	NA	1	11/05/10 09:18	kjk	10K0161	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Bromochloromethane	<42		ug/kg dry	42	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Bromoform	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Bromomethane	<120		ug/kg dry	120	1	11/08/10 12:18	LCK	10K0231	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Chloroethane	<60		ug/kg dry	60	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Chloroform	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Chloromethane	<60		ug/kg dry	60	1	11/08/10 12:18	LCK	10K0231	SW 8260B
2-Chlorotoluene	<60		ug/kg dry	60	1	11/08/10 12:18	LCK	10K0231	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<60		ug/kg dry	60	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,3-Dichlorobenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<60		ug/kg dry	60	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<42		ug/kg dry	42	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Methylene Chloride	<60		ug/kg dry	60	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Naphthalene	<60		ug/kg dry	60	1	11/08/10 12:18	LCK	10K0231	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Styrene	<60		ug/kg dry	60	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0161
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0161-01 (MB-SB-TW-5@2-4' - Soil) - cont.						Sampled: 10/29/10 11:50			
VOCs by SW8260B - cont.									
1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Tetrachloroethene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Toluene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<42		ug/kg dry	42	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Trichloroethene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<60		ug/kg dry	60	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<30		ug/kg dry	30	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Vinyl chloride	<42		ug/kg dry	42	1	11/08/10 12:18	LCK	10K0231	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1	11/08/10 12:18	LCK	10K0231	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	104 %								
<i>Surr: Toluene-d8 (80-120%)</i>	98 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	104 %								
Sample ID: WTK0161-02 (MB-SB-TW-5@2-4' - Soil)						Sampled: 10/29/10 11:52			
General Chemistry Parameters									
% Solids	83		%	NA	1	11/05/10 09:18	kjk	10K0161	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<0.030		mg/kg dry	0.030	0.8	11/17/10 13:16	CLJ	10K0308	SW 8082
PCB-1221	<0.030		mg/kg dry	0.030	0.8	11/17/10 13:16	CLJ	10K0308	SW 8082
PCB-1232	<0.030		mg/kg dry	0.030	0.8	11/17/10 13:16	CLJ	10K0308	SW 8082
PCB-1242	<0.030		mg/kg dry	0.030	0.8	11/17/10 13:16	CLJ	10K0308	SW 8082
PCB-1248	<0.030		mg/kg dry	0.030	0.8	11/17/10 13:16	CLJ	10K0308	SW 8082
PCB-1254	<0.030		mg/kg dry	0.030	0.8	11/17/10 13:16	CLJ	10K0308	SW 8082
PCB-1260	<0.030		mg/kg dry	0.030	0.8	11/17/10 13:16	CLJ	10K0308	SW 8082
<i>Surr: Decachlorobiphenyl (10-177%)</i>	73 %								
<i>Surr: Tetrachloro-meta-xylene (11-150%)</i>	98 %								
PNAs by SW8310									
Acenaphthene	<60		ug/kg dry	60	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Acenaphthylene	<100		ug/kg dry	100	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Anthracene	8.4		ug/kg dry	6.0	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Benzo (a) anthracene	<6.0		ug/kg dry	6.0	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	<6.0		ug/kg dry	6.0	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	<6.0		ug/kg dry	6.0	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Benzo (a) pyrene	<6.0		ug/kg dry	6.0	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	<6.0		ug/kg dry	6.0	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Chrysene	<6.0		ug/kg dry	6.0	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	<9.1		ug/kg dry	9.1	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Fluoranthene	47		ug/kg dry	12	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Fluorene	<12		ug/kg dry	12	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	<6.0		ug/kg dry	6.0	1	11/12/10 20:36	CLJ	10K0272	SW 8310
1-Methylnaphthalene	<36		ug/kg dry	36	1	11/12/10 20:36	CLJ	10K0272	SW 8310
2-Methylnaphthalene	<36		ug/kg dry	36	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Naphthalene	<36		ug/kg dry	36	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Phenanthrene	24		ug/kg dry	6.0	1	11/12/10 20:36	CLJ	10K0272	SW 8310
Pyrene	<6.0		ug/kg dry	6.0	1	11/12/10 20:36	CLJ	10K0272	SW 8310
<i>Surr: 2-Fluorobiphenyl (61-128%)</i>	82 %								

Advanced Environmental Solutions, Inc.
90 Madison Street
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Mr. Michael Bingham

Work Order: WTK0161
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0161-03 (MB-SB-TW-5@2-4' - Soil)						Sampled: 10/29/10 11:58			
General Chemistry Parameters									
% Solids	81		%	NA	1	11/05/10 09:18	kjk	10K0161	SM 2540G
Metals									
Aluminum	3500		mg/kg dry	2.8	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Antimony	3.4	B	mg/kg dry	0.055	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Arsenic	5.5		mg/kg dry	2.8	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Barium	14		mg/kg dry	0.12	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Beryllium	0.15		mg/kg dry	0.012	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Cadmium	<0.11		mg/kg dry	0.11	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Calcium	84000	B	mg/kg dry	1.3	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Chromium	9.2		mg/kg dry	0.20	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Cobalt	2.5		mg/kg dry	0.61	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Copper	9.3		mg/kg dry	1.8	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Iron	6100		mg/kg dry	1.4	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Lead	3.7		mg/kg dry	1.3	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Magnesium	52000		mg/kg dry	1.3	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Manganese	180		mg/kg dry	0.089	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Mercury	<0.013		mg/kg dry	0.013	1.0	11/08/10 10:54	jej	10K0170	SW 7471A
Nickel	5.9		mg/kg dry	0.39	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Potassium	590		mg/kg dry	1.9	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Selenium	<4.4		mg/kg dry	4.4	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Silver	0.16		mg/kg dry	0.12	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Sodium	310		mg/kg dry	0.97	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Thallium	<3.5		mg/kg dry	3.5	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Vanadium	17		mg/kg dry	0.14	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Zinc	14		mg/kg dry	0.27	0.9	12/02/10 16:33	mmm	10K0243	SW 6010B
Sample ID: WTK0161-04 (MB-SB-2@2-3.5' - Soil)						Sampled: 10/29/10 12:50			
General Chemistry Parameters									
% Solids	80		%	NA	1	11/05/10 09:18	kjk	10K0161	SM 2540G
VOCs by SW8260B									
Benzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Bromobenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Bromochloromethane	<44		ug/kg dry	44	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Bromodichloromethane	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Bromoform	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Bromomethane	<130		ug/kg dry	130	1	11/08/10 12:45	LCK	10K0231	SW 8260B
n-Butylbenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
sec-Butylbenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
tert-Butylbenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Chlorobenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Chlorodibromomethane	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Chloroethane	<63		ug/kg dry	63	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Chloroform	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Chloromethane	<63		ug/kg dry	63	1	11/08/10 12:45	LCK	10K0231	SW 8260B
2-Chlorotoluene	<63		ug/kg dry	63	1	11/08/10 12:45	LCK	10K0231	SW 8260B
4-Chlorotoluene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<63		ug/kg dry	63	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Dibromomethane	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0161
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0161-04 (MB-SB-2@2-3.5' - Soil) - cont.						Sampled: 10/29/10 12:50			
VOCs by SW8260B - cont.									
1,3-Dichlorobenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<63		ug/kg dry	63	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Isopropyl Ether	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Ethylbenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<44		ug/kg dry	44	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Isopropylbenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Methylene Chloride	<63		ug/kg dry	63	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Naphthalene	<63		ug/kg dry	63	1	11/08/10 12:45	LCK	10K0231	SW 8260B
n-Propylbenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Styrene	<63		ug/kg dry	63	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,1,2,2-Tetrachloroethane	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Tetrachloroethene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Toluene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<44		ug/kg dry	44	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Trichloroethene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<63		ug/kg dry	63	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<31		ug/kg dry	31	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Vinyl chloride	<44		ug/kg dry	44	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Xylenes, total	<110		ug/kg dry	110	1	11/08/10 12:45	LCK	10K0231	SW 8260B
Surr: Dibromofluoromethane (80-120%)	103 %								
Surr: Toluene-d8 (80-120%)	97 %								
Surr: 4-Bromofluorobenzene (80-120%)	102 %								

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Work Order: WTK0161
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0161-05 (MB-SB-2@2-3.5' - Soil)						Sampled: 10/29/10 12:55			
General Chemistry Parameters									
% Solids	81		%	NA	1	11/05/10 09:18	kjk	10K0161	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<0.031		mg/kg dry	0.031	0.8	11/17/10 17:13	CLJ	10K0308	SW 8082
PCB-1221	<0.031		mg/kg dry	0.031	0.8	11/17/10 17:13	CLJ	10K0308	SW 8082
PCB-1232	<0.031		mg/kg dry	0.031	0.8	11/17/10 17:13	CLJ	10K0308	SW 8082
PCB-1242	<0.031		mg/kg dry	0.031	0.8	11/17/10 17:13	CLJ	10K0308	SW 8082
PCB-1248	<0.031		mg/kg dry	0.031	0.8	11/17/10 17:13	CLJ	10K0308	SW 8082
PCB-1254	<0.031		mg/kg dry	0.031	0.8	11/17/10 17:13	CLJ	10K0308	SW 8082
PCB-1260	<0.031		mg/kg dry	0.031	0.8	11/17/10 17:13	CLJ	10K0308	SW 8082
Surr: Decachlorobiphenyl (10-177%)	74 %								
Surr: Tetrachloro-meta-xylene (11-150%)	94 %								
Sample ID: WTK0161-06 (MB-SB-2@2-3.5' - Soil)						Sampled: 10/29/10 12:57			
General Chemistry Parameters									
% Solids	78		%	NA	1	11/05/10 09:18	kjk	10K0161	SM 2540G
Metals									
Aluminum	3900		mg/kg dry	3.0	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Antimony	3.0	B	mg/kg dry	0.061	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Arsenic	6.1		mg/kg dry	3.0	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Barium	45		mg/kg dry	0.13	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Beryllium	0.26		mg/kg dry	0.013	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Cadmium	0.14		mg/kg dry	0.12	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Calcium	80000	B	mg/kg dry	1.5	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Chromium	9.5		mg/kg dry	0.22	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Cobalt	3.4		mg/kg dry	0.67	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Copper	12		mg/kg dry	2.0	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Iron	7100		mg/kg dry	1.6	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Lead	6.6		mg/kg dry	1.5	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Magnesium	46000		mg/kg dry	1.5	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Manganese	200		mg/kg dry	0.098	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Mercury	<0.012		mg/kg dry	0.012	1.0	11/08/10 10:56	jej	10K0170	SW 7471A
Nickel	7.0		mg/kg dry	0.43	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Potassium	670		mg/kg dry	2.1	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Selenium	<4.9		mg/kg dry	4.9	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Silver	<0.13		mg/kg dry	0.13	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Sodium	310		mg/kg dry	1.1	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Thallium	6.6	B	mg/kg dry	3.9	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Vanadium	17		mg/kg dry	0.16	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B
Zinc	20		mg/kg dry	0.29	1.0	12/02/10 16:37	mmm	10K0243	SW 6010B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0161
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0161-07 (MB-SB-1@2-4' - Soil)						Sampled: 10/29/10 13:10			
General Chemistry Parameters									
% Solids	78		%	NA	1	11/05/10 09:18	kjk	10K0161	SM 2540G
VOCs by SW8260B									
Benzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Bromobenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Bromochloromethane	<45		ug/kg dry	45	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Bromodichloromethane	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Bromoform	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Bromomethane	<130		ug/kg dry	130	1	11/08/10 13:12	LCK	10K0231	SW 8260B
n-Butylbenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
sec-Butylbenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
tert-Butylbenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Chlorobenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Chlorodibromomethane	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Chloroethane	<64		ug/kg dry	64	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Chloroform	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Chloromethane	<64		ug/kg dry	64	1	11/08/10 13:12	LCK	10K0231	SW 8260B
2-Chlorotoluene	<64		ug/kg dry	64	1	11/08/10 13:12	LCK	10K0231	SW 8260B
4-Chlorotoluene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<64		ug/kg dry	64	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Dibromomethane	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,3-Dichlorobenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<64		ug/kg dry	64	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Isopropyl Ether	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Ethylbenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<45		ug/kg dry	45	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Isopropylbenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Methylene Chloride	<64		ug/kg dry	64	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Naphthalene	<64		ug/kg dry	64	1	11/08/10 13:12	LCK	10K0231	SW 8260B
n-Propylbenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Styrene	<64		ug/kg dry	64	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,1,1,2,2-Tetrachloroethane	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Tetrachloroethene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
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Work Order: WTK0161
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0161-07 (MB-SB-1@2-4' - Soil) - cont.						Sampled: 10/29/10 13:10			
VOCs by SW8260B - cont.									
Toluene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<45		ug/kg dry	45	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Trichloroethene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<64		ug/kg dry	64	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<32		ug/kg dry	32	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Vinyl chloride	<45		ug/kg dry	45	1	11/08/10 13:12	LCK	10K0231	SW 8260B
Xylenes, total	<110		ug/kg dry	110	1	11/08/10 13:12	LCK	10K0231	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	101 %								
<i>Surr: Toluene-d8 (80-120%)</i>	97 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	101 %								
Sample ID: WTK0161-08 (MB-SB-1@2-4' - Soil)						Sampled: 10/29/10 13:15			
General Chemistry Parameters									
% Solids	80		%	NA	1	11/05/10 09:18	kjk	10K0161	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<0.031		mg/kg dry	0.031	0.7	11/17/10 17:37	CLJ	10K0308	SW 8082
PCB-1221	<0.031		mg/kg dry	0.031	0.7	11/17/10 17:37	CLJ	10K0308	SW 8082
PCB-1232	<0.031		mg/kg dry	0.031	0.7	11/17/10 17:37	CLJ	10K0308	SW 8082
PCB-1242	<0.031		mg/kg dry	0.031	0.7	11/17/10 17:37	CLJ	10K0308	SW 8082
PCB-1248	<0.031		mg/kg dry	0.031	0.7	11/17/10 17:37	CLJ	10K0308	SW 8082
PCB-1254	<0.031		mg/kg dry	0.031	0.7	11/17/10 17:37	CLJ	10K0308	SW 8082
PCB-1260	<0.031		mg/kg dry	0.031	0.7	11/17/10 17:37	CLJ	10K0308	SW 8082
<i>Surr: Decachlorobiphenyl (10-177%)</i>	80 %								
<i>Surr: Tetrachloro-meta-xylene (11-150%)</i>	99 %								
PNAs by SW8310									
Acenaphthene	<63		ug/kg dry	63	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Acenaphthylene	<110		ug/kg dry	110	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Anthracene	<6.3		ug/kg dry	6.3	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Benzo (a) anthracene	<6.3		ug/kg dry	6.3	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	<6.3		ug/kg dry	6.3	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	<6.3		ug/kg dry	6.3	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Benzo (a) pyrene	<6.3		ug/kg dry	6.3	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	<6.3		ug/kg dry	6.3	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Chrysene	<6.3		ug/kg dry	6.3	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	<9.4		ug/kg dry	9.4	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Fluoranthene	17		ug/kg dry	13	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Fluorene	<13		ug/kg dry	13	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	<6.3		ug/kg dry	6.3	1	11/12/10 20:57	CLJ	10K0272	SW 8310
1-Methylnaphthalene	<38		ug/kg dry	38	1	11/12/10 20:57	CLJ	10K0272	SW 8310
2-Methylnaphthalene	<38		ug/kg dry	38	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Naphthalene	<38		ug/kg dry	38	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Phenanthrene	9.4		ug/kg dry	6.3	1	11/12/10 20:57	CLJ	10K0272	SW 8310
Pyrene	<6.3		ug/kg dry	6.3	1	11/12/10 20:57	CLJ	10K0272	SW 8310
<i>Surr: 2-Fluorobiphenyl (61-128%)</i>	87 %								

Advanced Environmental Solutions, Inc.
 90 Madison Street
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Work Order: WTK0161
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0161-09 (MB-SB-1@2-4' DUP - Soil)						Sampled: 10/29/10 13:17			
General Chemistry Parameters									
% Solids	79		%	NA	1	11/05/10 09:18	kjk	10K0161	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<0.031		mg/kg dry	0.031	0.7	11/17/10 18:01	CLJ	10K0308	SW 8082
PCB-1221	<0.031		mg/kg dry	0.031	0.7	11/17/10 18:01	CLJ	10K0308	SW 8082
PCB-1232	<0.031		mg/kg dry	0.031	0.7	11/17/10 18:01	CLJ	10K0308	SW 8082
PCB-1242	<0.031		mg/kg dry	0.031	0.7	11/17/10 18:01	CLJ	10K0308	SW 8082
PCB-1248	<0.031		mg/kg dry	0.031	0.7	11/17/10 18:01	CLJ	10K0308	SW 8082
PCB-1254	<0.031		mg/kg dry	0.031	0.7	11/17/10 18:01	CLJ	10K0308	SW 8082
PCB-1260	<0.031		mg/kg dry	0.031	0.7	11/17/10 18:01	CLJ	10K0308	SW 8082
Surr: Decachlorobiphenyl (10-177%)	74 %								
Surr: Tetrachloro-meta-xylene (11-150%)	89 %								
Sample ID: WTK0161-10 (MB-SB-1@2-4' - Soil)						Sampled: 10/29/10 13:20			
General Chemistry Parameters									
% Solids	79		%	NA	1	11/05/10 09:18	kjk	10K0161	SM 2540G
Metals									
Aluminum	3100		mg/kg dry	3.2	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Antimony	2.6	B	mg/kg dry	0.063	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Arsenic	6.0		mg/kg dry	3.2	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Barium	8.6		mg/kg dry	0.14	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Beryllium	0.13		mg/kg dry	0.014	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Cadmium	<0.13		mg/kg dry	0.13	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Calcium	87000	B	mg/kg dry	1.5	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Chromium	9.0		mg/kg dry	0.23	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Cobalt	2.8		mg/kg dry	0.70	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Copper	8.9		mg/kg dry	2.0	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Iron	5000		mg/kg dry	1.6	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Lead	6.0		mg/kg dry	1.5	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Magnesium	53000		mg/kg dry	1.5	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Manganese	130		mg/kg dry	0.10	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Mercury	<0.013		mg/kg dry	0.013	1.1	11/08/10 10:58	jej	10K0170	SW 7471A
Nickel	5.6		mg/kg dry	0.44	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Potassium	530		mg/kg dry	2.2	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Selenium	<5.1		mg/kg dry	5.1	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Silver	0.17		mg/kg dry	0.14	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Sodium	300		mg/kg dry	1.1	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Thallium	<4.1		mg/kg dry	4.1	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Vanadium	14		mg/kg dry	0.16	1	12/02/10 16:40	mmm	10K0243	SW 6010B
Zinc	13		mg/kg dry	0.30	1	12/02/10 16:40	mmm	10K0243	SW 6010B

Advanced Environmental Solutions, Inc.
90 Madison Street
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Mr. Michael Bingham

Work Order: WTK0161
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:33

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0161-11 (Equipment Blank - Water - NonPotable)							Sampled: 10/29/10 16:00			
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Methylene Chloride	<1.0		ug/L	1.0	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Toluene	0.97	J	ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0161
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:33

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0161-11 (Equipment Blank - Water - NonPotable) - cont.						Sampled: 10/29/10 16:00				
VOCs by SW8260B - cont.										
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	11/11/10 09:44	MAE	10K0319	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>103 %</i>									
<i>Surr: Toluene-d8 (80-120%)</i>	<i>107 %</i>									
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>94 %</i>									

Sample ID: WTK0161-12 (Equipment Blank - Water - NonPotable)						Sampled: 10/29/10 16:03				
PNAs by SW8310										
Acenaphthene	<0.33		ug/L	0.33	1.3	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Acenaphthylene	<0.69		ug/L	0.69	2.5	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Anthracene	<0.038		ug/L	0.038	0.13	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Benzo (a) anthracene	<0.044		ug/L	0.044	0.13	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Benzo (b) fluoranthene	<0.098		ug/L	0.098	0.25	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Benzo (k) fluoranthene	<0.049		ug/L	0.049	0.13	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Benzo (a) pyrene	<0.032		ug/L	0.032	0.13	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Benzo (g,h,i) perylene	<0.12		ug/L	0.12	0.25	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Chrysene	<0.041		ug/L	0.041	0.13	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Dibenzo (a,h) anthracene	<0.13		ug/L	0.13	0.25	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Fluoranthene	<0.081		ug/L	0.081	0.25	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Fluorene	<0.062		ug/L	0.062	0.25	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Indeno (1,2,3-cd) pyrene	<0.062		ug/L	0.062	0.13	1	11/11/10 15:28	CLJ	10K0205	SW 8310
1-Methylnaphthalene	<0.32		ug/L	0.32	1.3	1	11/11/10 15:28	CLJ	10K0205	SW 8310
2-Methylnaphthalene	<0.31		ug/L	0.31	1.3	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Naphthalene	<0.40		ug/L	0.40	1.3	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Phenanthrene	<0.030		ug/L	0.030	0.13	1	11/11/10 15:28	CLJ	10K0205	SW 8310
Pyrene	<0.044		ug/L	0.044	0.13	1	11/11/10 15:28	CLJ	10K0205	SW 8310
<i>Surr: 2-Fluorobiphenyl (16-138%)</i>	<i>94 %</i>									

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 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:33

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0161-13 (Equipment Blank - Water - NonPotable)							Sampled: 10/29/10 16:05			
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	<0.064		ug/L	0.064	0.26	1.0	11/23/10 14:38	CLJ	10K0383	SW 8082
PCB-1221	<0.18		ug/L	0.18	0.26	1.0	11/23/10 14:38	CLJ	10K0383	SW 8082
PCB-1232	<0.067		ug/L	0.067	0.26	1.0	11/23/10 14:38	CLJ	10K0383	SW 8082
PCB-1242	<0.24		ug/L	0.24	0.26	1.0	11/23/10 14:38	CLJ	10K0383	SW 8082
PCB-1248	<0.064		ug/L	0.064	0.26	1.0	11/23/10 14:38	CLJ	10K0383	SW 8082
PCB-1254	<0.077		ug/L	0.077	0.26	1.0	11/23/10 14:38	CLJ	10K0383	SW 8082
PCB-1260	0.088	J	ug/L	0.072	0.26	1.0	11/23/10 14:38	CLJ	10K0383	SW 8082
<i>Surr: Decachlorobiphenyl (10-158%)</i>	103 %									
<i>Surr: Tetrachloro-meta-xylene (40-137%)</i>	108 %									

Sample ID: WTK0161-14 (Equipment Blank - Water - NonPotable)							Sampled: 10/29/10 16:06			
Metals										
Aluminum	<150		ug/L	150	200	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Antimony	<0.61		ug/L	0.61	2.0	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Arsenic	<0.61		ug/L	0.61	2.0	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Barium	2.9		ug/L	0.61	2.0	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Beryllium	<0.12		ug/L	0.12	0.40	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Cadmium	<0.12		ug/L	0.12	0.40	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Calcium	440	J	ug/L	150	500	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Chromium	<0.61		ug/L	0.61	2.0	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Cobalt	<0.61		ug/L	0.61	2.0	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Copper	1.1	J	ug/L	0.61	2.0	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Iron	<150		ug/L	150	500	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Lead	1.2	J	ug/L	0.61	2.0	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Magnesium	<150		ug/L	150	500	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Manganese	<0.61		ug/L	0.61	2.0	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Mercury	<0.000065		mg/L	0.000065	0.00023	1	11/11/10 09:51	jej	10K0298	SW 7470A
Nickel	<0.61		ug/L	0.61	2.0	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Potassium	<150		ug/L	150	500	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Selenium	<0.61		ug/L	0.61	2.0	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Silver	<0.61		ug/L	0.61	2.0	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Sodium	<150		ug/L	150	500	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Thallium	<0.12		ug/L	0.12	0.40	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Vanadium	<0.61		ug/L	0.61	2.0	1	11/30/10 12:16	gsj	10K0372	SW 6020A
Zinc	8.7	J	ug/L	6.0	20	1	11/30/10 12:16	gsj	10K0372	SW 6020A

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Work Order: WTK0161
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:33

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
BNAs by SW8270C							
n/a		WTK0161-02					
n/a		WTK0161-08					
n/a		WTK0161-12					
PNAs by SW8310							
SW 8310	10K0272	WTK0161-02	10	2	11/09/10 10:39	TLH	SW 3546
SW 8310	10K0272	WTK0161-08	10	2	11/09/10 10:39	TLH	SW 3546
SW 8310	10K0205	WTK0161-12	1000	2	11/05/10 14:26	CLJ	PNA8310/610
Polychlorinated Biphenyls by EPA Method 8082							
n/a		WTK0161-02					
n/a		WTK0161-05					
n/a		WTK0161-08					
n/a		WTK0161-09					
n/a		WTK0161-13					
SW 8082	10K0308	WTK0161-02	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen
SW 8082	10K0308	WTK0161-05	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen
SW 8082	10K0308	WTK0161-08	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen
SW 8082	10K0308	WTK0161-09	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen
SW 8082	10K0383	WTK0161-13	970	5	11/12/10 14:19	BKM	SW 3510C

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 Reported: 12/03/10 15:33

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup	%	Dup	% REC	RPD	RPD	Limit	Q
								Result	REC	%REC	Limits	RPD	Limit		
Metals															
Mercury	10K0170			mg/kg wet	N/A	0.010	<0.010								
Aluminum	10K0243			mg/kg wet	N/A	2.5	<2.5								
Antimony	10K0243			mg/kg wet	N/A	0.050	0.397								
Arsenic	10K0243			mg/kg wet	N/A	2.5	<2.5								
Barium	10K0243			mg/kg wet	N/A	0.11	<0.11								
Beryllium	10K0243			mg/kg wet	N/A	0.011	<0.011								
Cadmium	10K0243			mg/kg wet	N/A	0.10	<0.10								
Calcium	10K0243			mg/kg wet	N/A	1.2	1.95								
Chromium	10K0243			mg/kg wet	N/A	0.18	<0.18								
Cobalt	10K0243			mg/kg wet	N/A	0.55	<0.55								
Copper	10K0243			mg/kg wet	N/A	1.6	<1.6								
Iron	10K0243			mg/kg wet	N/A	1.3	<1.3								
Lead	10K0243			mg/kg wet	N/A	1.2	<1.2								
Magnesium	10K0243			mg/kg wet	N/A	1.2	<1.2								
Manganese	10K0243			mg/kg wet	N/A	0.080	<0.080								
Nickel	10K0243			mg/kg wet	N/A	0.35	<0.35								
Potassium	10K0243			mg/kg wet	N/A	1.7	<1.7								
Selenium	10K0243			mg/kg wet	N/A	4.0	<4.0								
Silver	10K0243			mg/kg wet	N/A	0.11	<0.11								
Sodium	10K0243			mg/kg wet	N/A	0.88	<0.88								
Thallium	10K0243			mg/kg wet	N/A	3.2	3.53								
Vanadium	10K0243			mg/kg wet	N/A	0.13	<0.13								
Zinc	10K0243			mg/kg wet	N/A	0.24	<0.24								
Mercury	10K0298			mg/L	0.000065	0.00023	<0.000065								
Aluminum	10K0372			ug/L	150	200	<150								
Antimony	10K0372			ug/L	0.61	2.0	<0.61								
Arsenic	10K0372			ug/L	0.61	2.0	<0.61								
Barium	10K0372			ug/L	0.61	2.0	<0.61								
Beryllium	10K0372			ug/L	0.12	0.40	<0.12								
Cadmium	10K0372			ug/L	0.12	0.40	<0.12								
Calcium	10K0372			ug/L	150	500	<150								
Chromium	10K0372			ug/L	0.61	2.0	<0.61								
Cobalt	10K0372			ug/L	0.61	2.0	<0.61								
Copper	10K0372			ug/L	0.61	2.0	<0.61								
Iron	10K0372			ug/L	150	500	<150								
Lead	10K0372			ug/L	0.61	2.0	<0.61								
Magnesium	10K0372			ug/L	150	500	<150								
Manganese	10K0372			ug/L	0.61	2.0	<0.61								
Nickel	10K0372			ug/L	0.61	2.0	<0.61								
Potassium	10K0372			ug/L	150	500	<150								
Selenium	10K0372			ug/L	0.61	2.0	<0.61								
Silver	10K0372			ug/L	0.61	2.0	<0.61								
Sodium	10K0372			ug/L	150	500	<150								
Thallium	10K0372			ug/L	0.12	0.40	<0.12								
Vanadium	10K0372			ug/L	0.61	2.0	<0.61								

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 Reported: 12/03/10 15:33

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Metals														
Zinc	10K0372			ug/L	6.0	20	<6.0							
Polychlorinated Biphenyls by EPA Method 8082														
PCB-1016	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1221	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1232	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1242	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1248	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1254	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1260	10K0308			mg/kg wet	N/A	0.025	<0.025							
Surrogate: Decachlorobiphenyl	10K0308			mg/kg wet						100		10-177		
Surrogate: Tetrachloro-meta-xylene	10K0308			mg/kg wet						116		11-150		
PCB-1016	10K0383			ug/L	0.062	0.25	<0.062							
PCB-1221	10K0383			ug/L	0.17	0.25	<0.17							
PCB-1232	10K0383			ug/L	0.065	0.25	<0.065							
PCB-1242	10K0383			ug/L	0.23	0.25	<0.23							
PCB-1248	10K0383			ug/L	0.062	0.25	<0.062							
PCB-1254	10K0383			ug/L	0.075	0.25	<0.075							
PCB-1260	10K0383			ug/L	0.070	0.25	<0.070							
Surrogate: Decachlorobiphenyl	10K0383			ug/L						108		10-158		
Surrogate: Tetrachloro-meta-xylene	10K0383			ug/L						95		40-137		
VOCs by SW8260B														
Benzene	10K0231			ug/kg wet	N/A	25	<25							
Bromobenzene	10K0231			ug/kg wet	N/A	25	<25							
Bromochloromethane	10K0231			ug/kg wet	N/A	35	<35							
Bromodichloromethane	10K0231			ug/kg wet	N/A	25	<25							
Bromoform	10K0231			ug/kg wet	N/A	25	<25							
Bromomethane	10K0231			ug/kg wet	N/A	100	<100							
n-Butylbenzene	10K0231			ug/kg wet	N/A	25	<25							
sec-Butylbenzene	10K0231			ug/kg wet	N/A	25	<25							
tert-Butylbenzene	10K0231			ug/kg wet	N/A	25	<25							
Carbon Tetrachloride	10K0231			ug/kg wet	N/A	25	<25							
Chlorobenzene	10K0231			ug/kg wet	N/A	25	<25							
Chlorodibromomethane	10K0231			ug/kg wet	N/A	25	<25							
Chloroethane	10K0231			ug/kg wet	N/A	50	<50							
Chloroform	10K0231			ug/kg wet	N/A	25	<25							
Chloromethane	10K0231			ug/kg wet	N/A	50	<50							
2-Chlorotoluene	10K0231			ug/kg wet	N/A	50	<50							
4-Chlorotoluene	10K0231			ug/kg wet	N/A	25	<25							
1,2-Dibromo-3-chloropropane	10K0231			ug/kg wet	N/A	50	<50							
1,2-Dibromoethane (EDB)	10K0231			ug/kg wet	N/A	25	<25							
Dibromomethane	10K0231			ug/kg wet	N/A	25	<25							
1,2-Dichlorobenzene	10K0231			ug/kg wet	N/A	25	<25							
1,3-Dichlorobenzene	10K0231			ug/kg wet	N/A	25	<25							
1,4-Dichlorobenzene	10K0231			ug/kg wet	N/A	25	<25							
Dichlorodifluoromethane	10K0231			ug/kg wet	N/A	50	<50							
1,1-Dichloroethane	10K0231			ug/kg wet	N/A	25	<25							

Advanced Environmental Solutions, Inc.
 90 Madison Street
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 Mr. Michael Bingham

Work Order: WTK0161
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:33

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
1,2-Dichloroethane	10K0231			ug/kg wet	N/A	25	<25							
1,1-Dichloroethene	10K0231			ug/kg wet	N/A	25	<25							
cis-1,2-Dichloroethene	10K0231			ug/kg wet	N/A	25	<25							
trans-1,2-Dichloroethene	10K0231			ug/kg wet	N/A	25	<25							
1,2-Dichloropropane	10K0231			ug/kg wet	N/A	25	<25							
1,3-Dichloropropane	10K0231			ug/kg wet	N/A	25	<25							
2,2-Dichloropropane	10K0231			ug/kg wet	N/A	25	<25							
1,1-Dichloropropene	10K0231			ug/kg wet	N/A	25	<25							
cis-1,3-Dichloropropene	10K0231			ug/kg wet	N/A	25	<25							
trans-1,3-Dichloropropene	10K0231			ug/kg wet	N/A	25	<25							
2,3-Dichloropropene	10K0231			ug/kg wet	N/A	25	<25							
Isopropyl Ether	10K0231			ug/kg wet	N/A	25	<25							
Ethylbenzene	10K0231			ug/kg wet	N/A	25	<25							
Hexachlorobutadiene	10K0231			ug/kg wet	N/A	35	<35							
Isopropylbenzene	10K0231			ug/kg wet	N/A	25	<25							
p-Isopropyltoluene	10K0231			ug/kg wet	N/A	25	<25							
Methylene Chloride	10K0231			ug/kg wet	N/A	50	<50							
Methyl tert-Butyl Ether	10K0231			ug/kg wet	N/A	25	<25							
Naphthalene	10K0231			ug/kg wet	N/A	50	<50							
n-Propylbenzene	10K0231			ug/kg wet	N/A	25	<25							
Styrene	10K0231			ug/kg wet	N/A	50	<50							
1,1,1,2-Tetrachloroethane	10K0231			ug/kg wet	N/A	25	<25							
1,1,2,2-Tetrachloroethane	10K0231			ug/kg wet	N/A	25	<25							
Tetrachloroethene	10K0231			ug/kg wet	N/A	25	<25							
Toluene	10K0231			ug/kg wet	N/A	25	<25							
1,2,3-Trichlorobenzene	10K0231			ug/kg wet	N/A	25	<25							
1,2,4-Trichlorobenzene	10K0231			ug/kg wet	N/A	25	<25							
1,1,1-Trichloroethane	10K0231			ug/kg wet	N/A	25	<25							
1,1,2-Trichloroethane	10K0231			ug/kg wet	N/A	35	<35							
Trichloroethene	10K0231			ug/kg wet	N/A	25	<25							
Trichlorofluoromethane	10K0231			ug/kg wet	N/A	25	<25							
1,2,3-Trichloropropane	10K0231			ug/kg wet	N/A	50	<50							
1,2,4-Trimethylbenzene	10K0231			ug/kg wet	N/A	25	<25							
1,3,5-Trimethylbenzene	10K0231			ug/kg wet	N/A	25	<25							
Vinyl chloride	10K0231			ug/kg wet	N/A	35	<35							
Xylenes, total	10K0231			ug/kg wet	N/A	85	<85							
<i>Surrogate: Dibromofluoromethane</i>	<i>10K0231</i>			ug/kg wet						<i>106</i>		<i>80-120</i>		
<i>Surrogate: Toluene-d8</i>	<i>10K0231</i>			ug/kg wet						<i>96</i>		<i>80-120</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>10K0231</i>			ug/kg wet						<i>102</i>		<i>80-120</i>		
Pentafluorobenzene	10K0231		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
1,4-Difluorobenzene	10K0231		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
Chlorobenzene-d5	10K0231		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
1,4-Dichlorobenzene-d4	10K0231		50	ug/kg wet	N/A	N/A	50.0			100		50-200		

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B													
Benzene	10K0319			ug/L	0.20	2.0	<0.20						
Bromobenzene	10K0319			ug/L	0.20	2.0	<0.20						
Bromochloromethane	10K0319			ug/L	0.50	2.0	<0.50						
Bromodichloromethane	10K0319			ug/L	0.20	2.0	<0.20						
Bromoform	10K0319			ug/L	0.20	5.0	<0.20						
Bromomethane	10K0319			ug/L	0.50	5.0	<0.50						
n-Butylbenzene	10K0319			ug/L	0.20	2.0	<0.20						
sec-Butylbenzene	10K0319			ug/L	0.25	2.0	<0.25						
tert-Butylbenzene	10K0319			ug/L	0.20	2.0	<0.20						
Carbon Tetrachloride	10K0319			ug/L	0.80	2.0	<0.80						
Chlorobenzene	10K0319			ug/L	0.20	2.0	<0.20						
Chlorodibromomethane	10K0319			ug/L	0.20	2.0	<0.20						
Chloroethane	10K0319			ug/L	1.0	5.0	<1.0						
Chloroform	10K0319			ug/L	0.20	2.0	<0.20						
Chloromethane	10K0319			ug/L	0.30	2.0	<0.30						
2-Chlorotoluene	10K0319			ug/L	0.50	2.0	<0.50						
4-Chlorotoluene	10K0319			ug/L	0.20	2.0	<0.20						
1,2-Dibromo-3-chloropropane	10K0319			ug/L	0.50	2.0	<0.50						
1,2-Dibromoethane (EDB)	10K0319			ug/L	0.20	2.0	<0.20						
Dibromomethane	10K0319			ug/L	0.20	2.0	<0.20						
1,2-Dichlorobenzene	10K0319			ug/L	0.20	2.0	<0.20						
1,3-Dichlorobenzene	10K0319			ug/L	0.20	2.0	<0.20						
1,4-Dichlorobenzene	10K0319			ug/L	0.50	2.0	<0.50						
Dichlorodifluoromethane	10K0319			ug/L	0.50	2.0	<0.50						
1,1-Dichloroethane	10K0319			ug/L	0.50	2.0	<0.50						
1,2-Dichloroethane	10K0319			ug/L	0.50	2.0	<0.50						
1,1-Dichloroethene	10K0319			ug/L	0.50	2.0	<0.50						
cis-1,2-Dichloroethene	10K0319			ug/L	0.50	2.0	<0.50						
trans-1,2-Dichloroethene	10K0319			ug/L	0.50	2.0	<0.50						
1,2-Dichloropropane	10K0319			ug/L	0.50	2.0	<0.50						
1,3-Dichloropropane	10K0319			ug/L	0.25	2.0	<0.25						
2,2-Dichloropropane	10K0319			ug/L	0.50	2.0	<0.50						
1,1-Dichloropropene	10K0319			ug/L	0.50	2.0	<0.50						
cis-1,3-Dichloropropene	10K0319			ug/L	0.20	2.0	<0.20						
trans-1,3-Dichloropropene	10K0319			ug/L	0.20	2.0	<0.20						
2,3-Dichloropropene	10K0319			ug/L	0.25	2.0	<0.25						
Isopropyl Ether	10K0319			ug/L	0.50	2.0	<0.50						
Ethylbenzene	10K0319			ug/L	0.50	2.0	<0.50						
Hexachlorobutadiene	10K0319			ug/L	0.50	2.0	<0.50						
Isopropylbenzene	10K0319			ug/L	0.20	2.0	<0.20						
p-Isopropyltoluene	10K0319			ug/L	0.20	2.0	<0.20						
Methylene Chloride	10K0319			ug/L	1.0	2.0	<1.0						
Methyl tert-Butyl Ether	10K0319			ug/L	0.50	2.0	<0.50						
Naphthalene	10K0319			ug/L	0.25	5.0	<0.25						
n-Propylbenzene	10K0319			ug/L	0.50	2.0	<0.50						

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
Styrene	10K0319			ug/L	0.50	5.0	<0.50							
1,1,1,2-Tetrachloroethane	10K0319			ug/L	0.25	2.0	<0.25							
1,1,2,2-Tetrachloroethane	10K0319			ug/L	0.20	2.0	<0.20							
Tetrachloroethene	10K0319			ug/L	0.50	2.0	<0.50							
Toluene	10K0319			ug/L	0.50	2.0	<0.50							
1,2,3-Trichlorobenzene	10K0319			ug/L	0.25	2.0	<0.25							
1,2,4-Trichlorobenzene	10K0319			ug/L	0.25	2.0	<0.25							
1,1,1-Trichloroethane	10K0319			ug/L	0.50	2.0	<0.50							
1,1,2-Trichloroethane	10K0319			ug/L	0.25	2.0	<0.25							
Trichloroethene	10K0319			ug/L	0.20	2.0	<0.20							
Trichlorofluoromethane	10K0319			ug/L	0.50	2.0	<0.50							
1,2,3-Trichloropropane	10K0319			ug/L	0.50	2.0	<0.50							
1,2,4-Trimethylbenzene	10K0319			ug/L	0.20	2.0	<0.20							
1,3,5-Trimethylbenzene	10K0319			ug/L	0.20	2.0	<0.20							
Vinyl chloride	10K0319			ug/L	0.20	2.0	<0.20							
Xylenes, Total	10K0319			ug/L	0.50	2.0	<0.50							
Surrogate: Dibromofluoromethane	10K0319			ug/L						103		80-120		
Surrogate: Toluene-d8	10K0319			ug/L						107		80-120		
Surrogate: 4-Bromofluorobenzene	10K0319			ug/L						94		80-120		
Pentafluorobenzene	10K0319		50	ug/L	N/A	N/A	50.0			100		50-200		
1,4-Difluorobenzene	10K0319		50	ug/L	N/A	N/A	50.0			100		50-200		
Chlorobenzene-d5	10K0319		50	ug/L	N/A	N/A	50.0			100		50-200		
1,4-Dichlorobenzene-d4	10K0319		50	ug/L	N/A	N/A	50.0			100		50-200		
PNAs by SW8310														
Acenaphthene	10K0205			ug/L	0.33	1.3	<0.33							
Acenaphthylene	10K0205			ug/L	0.69	2.5	<0.69							
Anthracene	10K0205			ug/L	0.038	0.13	<0.038							
Benzo (a) anthracene	10K0205			ug/L	0.044	0.13	<0.044							
Benzo (b) fluoranthene	10K0205			ug/L	0.098	0.25	<0.098							
Benzo (k) fluoranthene	10K0205			ug/L	0.049	0.13	<0.049							
Benzo (a) pyrene	10K0205			ug/L	0.032	0.13	<0.032							
Benzo (g,h,i) perylene	10K0205			ug/L	0.12	0.25	<0.12							
Chrysene	10K0205			ug/L	0.041	0.13	<0.041							
Dibenzo (a,h) anthracene	10K0205			ug/L	0.13	0.25	<0.13							
Fluoranthene	10K0205			ug/L	0.081	0.25	<0.081							
Fluorene	10K0205			ug/L	0.062	0.25	<0.062							
Indeno (1,2,3-cd) pyrene	10K0205			ug/L	0.062	0.13	<0.062							
1-Methylnaphthalene	10K0205			ug/L	0.32	1.3	<0.32							
2-Methylnaphthalene	10K0205			ug/L	0.31	1.3	<0.31							
Naphthalene	10K0205			ug/L	0.40	1.3	<0.40							
Phenanthrene	10K0205			ug/L	0.030	0.13	<0.030							
Pyrene	10K0205			ug/L	0.044	0.13	<0.044							
Surrogate: 2-Fluorobiphenyl	10K0205			ug/L						89		16-138		

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
PNAs by SW8310														
Acenaphthene	10K0272			ug/kg wet	N/A	50	<50							
Acenaphthylene	10K0272			ug/kg wet	N/A	85	<85							
Anthracene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (a) anthracene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (b) fluoranthene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (k) fluoranthene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (a) pyrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (g,h,i) perylene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Chrysene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Dibenzo (a,h) anthracene	10K0272			ug/kg wet	N/A	7.5	<7.5							
Fluoranthene	10K0272			ug/kg wet	N/A	10	<10							
Fluorene	10K0272			ug/kg wet	N/A	10	<10							
Indeno (1,2,3-cd) pyrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
1-Methylnaphthalene	10K0272			ug/kg wet	N/A	30	<30							
2-Methylnaphthalene	10K0272			ug/kg wet	N/A	30	<30							
Naphthalene	10K0272			ug/kg wet	N/A	30	<30							
Phenanthrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Pyrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Surrogate: 2-Fluorobiphenyl	10K0272			ug/kg wet					83		61-128			

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LABORATORY DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
General Chemistry Parameters													
QC Source Sample: WTK0149-20													
% Solids	10K0161	96.6		%	N/A	N/A	96.9				0	20	

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LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Metals														
Mercury	10K0170		0.25	mg/kg wet	N/A	0.010	0.241		96		76-133			
Aluminum	10K0243		100	mg/kg wet	N/A	2.5	95.1		95		85-115			
Antimony	10K0243		100	mg/kg wet	N/A	0.050	96.4		96		85-115			B
Arsenic	10K0243		100	mg/kg wet	N/A	2.5	96.4		96		85-115			
Barium	10K0243		50	mg/kg wet	N/A	0.11	47.5		95		85-115			
Beryllium	10K0243		50	mg/kg wet	N/A	0.011	48.9		98		85-115			
Cadmium	10K0243		50	mg/kg wet	N/A	0.10	48.6		97		85-115			
Calcium	10K0243		100	mg/kg wet	N/A	1.2	98.4		98		85-115			B
Chromium	10K0243		50	mg/kg wet	N/A	0.18	49.1		98		85-115			
Cobalt	10K0243		50	mg/kg wet	N/A	0.55	49.7		99		85-115			
Copper	10K0243		100	mg/kg wet	N/A	1.6	98.2		98		85-115			
Iron	10K0243		100	mg/kg wet	N/A	1.3	101		101		85-115			
Lead	10K0243		100	mg/kg wet	N/A	1.2	98.0		98		85-115			
Magnesium	10K0243		100	mg/kg wet	N/A	1.2	99.2		99		85-115			
Manganese	10K0243		50	mg/kg wet	N/A	0.080	49.4		99		85-115			
Nickel	10K0243		100	mg/kg wet	N/A	0.35	97.6		98		85-115			
Potassium	10K0243		200	mg/kg wet	N/A	1.7	189		95		85-115			
Selenium	10K0243		200	mg/kg wet	N/A	4.0	191		96		85-115			
Silver	10K0243		50	mg/kg wet	N/A	0.11	46.9		94		85-115			
Sodium	10K0243		150	mg/kg wet	N/A	0.88	144		96		85-115			
Thallium	10K0243		100	mg/kg wet	N/A	3.2	99.2		99		85-115			B
Vanadium	10K0243		50	mg/kg wet	N/A	0.13	49.5		99		80-120			
Zinc	10K0243		50	mg/kg wet	N/A	0.24	48.4		97		85-115			
Mercury	10K0298		0.0025	mg/L	0.000065	0.00023	0.00251		100		78-131			
Aluminum	10K0372		5100	ug/L	150	200	5080		101		85-115			
Antimony	10K0372		50	ug/L	0.61	2.0	54.2		108		85-115			
Arsenic	10K0372		50	ug/L	0.61	2.0	50.1		100		85-115			
Barium	10K0372		50	ug/L	0.61	2.0	54.8		110		85-115			
Beryllium	10K0372		50	ug/L	0.12	0.40	54.5		109		85-115			
Cadmium	10K0372		50	ug/L	0.12	0.40	53.9		108		85-115			
Calcium	10K0372		5100	ug/L	150	500	5060		100		85-115			
Chromium	10K0372		50	ug/L	0.61	2.0	50.7		101		85-115			
Cobalt	10K0372		50	ug/L	0.61	2.0	51.9		104		85-115			
Copper	10K0372		50	ug/L	0.61	2.0	52.4		105		85-115			
Iron	10K0372		5100	ug/L	150	500	5010		99		85-115			
Lead	10K0372		50	ug/L	0.61	2.0	51.9		104		85-115			
Magnesium	10K0372		5100	ug/L	150	500	5150		102		85-115			
Manganese	10K0372		50	ug/L	0.61	2.0	54.1		108		85-115			
Nickel	10K0372		50	ug/L	0.61	2.0	53.1		106		85-115			
Potassium	10K0372		5100	ug/L	150	500	5050		100		85-115			
Selenium	10K0372		50	ug/L	0.61	2.0	50.0		100		85-115			
Silver	10K0372		50	ug/L	0.61	2.0	53.1		106		85-115			
Sodium	10K0372		5100	ug/L	150	500	5040		100		85-115			
Thallium	10K0372		50	ug/L	0.12	0.40	52.4		105		85-115			
Vanadium	10K0372		50	ug/L	0.61	2.0	53.2		106		85-115			
Zinc	10K0372		50	ug/L	6.0	20	53.6		107		85-115			

Polychlorinated Biphenyls by EPA Method 8082

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0161
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:33

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Polychlorinated Biphenyls by EPA Method 8082														
PCB-1016	10K0308		0.25	mg/kg wet	N/A	0.025	0.31		122		75-125			
PCB-1221	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1232	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1242	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1248	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1254	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1260	10K0308		0.25	mg/kg wet	N/A	0.025	0.27		107		75-125			
Surrogate: Decachlorobiphenyl	10K0308			mg/kg wet					96		60-150			
Surrogate: Tetrachloro-meta-xylene	10K0308			mg/kg wet					113		60-150			
PCB-1016	10K0383		2.5	ug/L	0.062	0.25	2.845		114		75-125			
PCB-1221	10K0383			ug/L	0.17	0.25	<0.17				75-125			
PCB-1232	10K0383			ug/L	0.065	0.25	<0.065				75-125			
PCB-1242	10K0383			ug/L	0.23	0.25	<0.23				75-125			
PCB-1248	10K0383			ug/L	0.062	0.25	<0.062				75-125			
PCB-1254	10K0383			ug/L	0.075	0.25	<0.075				75-125			
PCB-1260	10K0383		2.5	ug/L	0.070	0.25	2.435		97		75-125			
Surrogate: Decachlorobiphenyl	10K0383			ug/L					108		60-150			
Surrogate: Tetrachloro-meta-xylene	10K0383			ug/L					108		60-150			
VOCs by SW8260B														
Benzene	10K0231		2500	ug/kg wet	N/A	N/A	2530		101		80-120		29	
Bromobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2290		92		80-120		20	
Bromochloromethane	10K0231		2500	ug/kg wet	N/A	N/A	2560		102		80-120		20	
Bromodichloromethane	10K0231		2500	ug/kg wet	N/A	N/A	2400		96		80-120		20	
Bromoform	10K0231		2500	ug/kg wet	N/A	N/A	2280		91		80-120		20	
Bromomethane	10K0231		2500	ug/kg wet	N/A	N/A	2470		99		60-140		20	
n-Butylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2450		98		80-120		20	
sec-Butylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2450		98		80-120		20	
tert-Butylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2430		97		80-120		20	
Carbon Tetrachloride	10K0231		2500	ug/kg wet	N/A	N/A	2620		105		60-140		20	
Chlorobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2410		96		80-120		17	
Chlorodibromomethane	10K0231		2500	ug/kg wet	N/A	N/A	2310		92		80-120		20	
Chloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2420		97		60-140		20	
Chloroform	10K0231		2500	ug/kg wet	N/A	N/A	2580		103		80-120		20	
Chloromethane	10K0231		2500	ug/kg wet	N/A	N/A	2340		94		60-140		20	
2-Chlorotoluene	10K0231		2500	ug/kg wet	N/A	N/A	2380		95		80-120		20	
4-Chlorotoluene	10K0231		2500	ug/kg wet	N/A	N/A	2350		94		80-120		20	
1,2-Dibromo-3-chloropropane	10K0231		2500	ug/kg wet	N/A	N/A	2160		86		60-140		20	
1,2-Dibromoethane (EDB)	10K0231		2500	ug/kg wet	N/A	N/A	2340		94		80-120		20	
Dibromomethane	10K0231		2500	ug/kg wet	N/A	N/A	2480		99		80-120		20	
1,2-Dichlorobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2350		94		80-120		20	
1,3-Dichlorobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2380		95		80-120		20	
1,4-Dichlorobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2360		94		80-120		20	
Dichlorodifluoromethane	10K0231		2500	ug/kg wet	N/A	N/A	2700		108		60-140		20	
1,1-Dichloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2550		102		80-120		20	
1,2-Dichloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2440		97		80-120		20	
1,1-Dichloroethene	10K0231		2500	ug/kg wet	N/A	N/A	2630		105		80-120		44	

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LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B													
cis-1,2-Dichloroethene	10K0231		2500	ug/kg wet	N/A	N/A	2670	107		80-120		20	
trans-1,2-Dichloroethene	10K0231		2500	ug/kg wet	N/A	N/A	2630	105		80-120		20	
1,2-Dichloropropane	10K0231		2500	ug/kg wet	N/A	N/A	2350	94		80-120		20	
1,3-Dichloropropane	10K0231		2500	ug/kg wet	N/A	N/A	2280	91		80-120		20	
2,2-Dichloropropane	10K0231		2500	ug/kg wet	N/A	N/A	2610	104		60-140		20	
1,1-Dichloropropene	10K0231		2500	ug/kg wet	N/A	N/A	2670	107		80-120		20	
cis-1,3-Dichloropropene	10K0231		2500	ug/kg wet	N/A	N/A	2400	96		80-120		20	
trans-1,3-Dichloropropene	10K0231		2500	ug/kg wet	N/A	N/A	2350	94		80-120		20	
Ethylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2420	97		80-120		17	
Hexachlorobutadiene	10K0231		2500	ug/kg wet	N/A	N/A	2460	98		60-140		20	
Isopropylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2450	98		80-120		20	
p-Isopropyltoluene	10K0231		2500	ug/kg wet	N/A	N/A	2460	98		80-120		20	
Methylene Chloride	10K0231		2500	ug/kg wet	N/A	N/A	2580	103		80-120		20	
Methyl tert-Butyl Ether	10K0231		2500	ug/kg wet	N/A	N/A	2530	101		80-120		36	
Naphthalene	10K0231		2500	ug/kg wet	N/A	N/A	2090	84		60-140		20	
n-Propylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2430	97		80-120		20	
Styrene	10K0231		2500	ug/kg wet	N/A	N/A	2390	96		80-120		20	
1,1,1,2-Tetrachloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2350	94		80-120		20	
1,1,2,2-Tetrachloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2190	88		80-120		20	
Tetrachloroethene	10K0231		2500	ug/kg wet	N/A	N/A	2600	104		80-120		20	
Toluene	10K0231		2500	ug/kg wet	N/A	N/A	2440	98		80-120		18	
1,2,3-Trichlorobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2320	93		80-120		20	
1,2,4-Trichlorobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2380	95		80-120		20	
1,1,1-Trichloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2650	106		80-120		20	
1,1,2-Trichloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2330	93		80-120		20	
Trichloroethene	10K0231		2500	ug/kg wet	N/A	N/A	2650	106		80-120		20	
Trichlorofluoromethane	10K0231		2500	ug/kg wet	N/A	N/A	2560	102		80-120		20	
1,2,3-Trichloropropane	10K0231		2500	ug/kg wet	N/A	N/A	2210	88		80-120		20	
1,2,4-Trimethylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2410	96		80-120		20	
1,3,5-Trimethylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2420	97		80-120		19	
Vinyl chloride	10K0231		2500	ug/kg wet	N/A	N/A	2700	108		80-120		20	
Xylenes, total	10K0231		7500	ug/kg wet	N/A	N/A	7270	97		80-120		17	
Surrogate: Dibromofluoromethane	10K0231			ug/kg wet				104		80-120			
Surrogate: Toluene-d8	10K0231			ug/kg wet				98		80-120			
Surrogate: 4-Bromofluorobenzene	10K0231			ug/kg wet				100		80-120			
PNAs by SW8310													
Acenaphthene	10K0205		10	ug/L	0.33	1.3	7.04	70		41-126			
Acenaphthylene	10K0205		20	ug/L	0.69	2.5	15.0	75		42-126			
Anthracene	10K0205		1.0	ug/L	0.038	0.13	0.728	73		34-128			
Benzo (a) anthracene	10K0205		1.0	ug/L	0.044	0.13	0.735	74		62-115			
Benzo (b) fluoranthene	10K0205		2.0	ug/L	0.098	0.25	1.53	76		72-127			
Benzo (k) fluoranthene	10K0205		1.0	ug/L	0.049	0.13	0.748	75		73-124			
Benzo (a) pyrene	10K0205		1.0	ug/L	0.032	0.13	0.680	68		41-126			
Benzo (g,h,i) perylene	10K0205		2.0	ug/L	0.12	0.25	1.48	74		69-120			

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PNAs by SW8310														
Chrysene	10K0205		1.0	ug/L	0.041	0.13	0.808		81		66-118			
Dibenzo (a,h) anthracene	10K0205		2.0	ug/L	0.13	0.25	1.55		77		71-123			
Fluoranthene	10K0205		2.0	ug/L	0.081	0.25	1.70		85		60-128			
Fluorene	10K0205		2.0	ug/L	0.062	0.25	1.77		88		43-140			
Indeno (1,2,3-cd) pyrene	10K0205		1.0	ug/L	0.062	0.13	0.735		73		67-118			
1-Methylnaphthalene	10K0205		10	ug/L	0.32	1.3	7.26		73		34-123			
2-Methylnaphthalene	10K0205		10	ug/L	0.31	1.3	7.13		71		28-119			
Naphthalene	10K0205		10	ug/L	0.40	1.3	6.96		70		34-120			
Phenanthrene	10K0205		1.0	ug/L	0.030	0.13	0.713		71		54-133			
Pyrene	10K0205		1.0	ug/L	0.044	0.13	0.788		79		56-121			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>10K0205</i>			ug/L					82		<i>52-116</i>			
Acenaphthene	10K0272		1000	ug/kg wet	N/A	50	781		78		72-114			
Acenaphthylene	10K0272		2000	ug/kg wet	N/A	85	1650		83		74-117			
Anthracene	10K0272		100	ug/kg wet	N/A	5.0	81.8		82		67-124			
Benzo (a) anthracene	10K0272		100	ug/kg wet	N/A	5.0	100		100		76-119			
Benzo (b) fluoranthene	10K0272		200	ug/kg wet	N/A	5.0	177		88		87-132			
Benzo (k) fluoranthene	10K0272		100	ug/kg wet	N/A	5.0	95.3		95		86-132			
Benzo (a) pyrene	10K0272		100	ug/kg wet	N/A	5.0	80.5		81		62-125			
Benzo (g,h,i) perylene	10K0272		200	ug/kg wet	N/A	5.0	180		90		80-128			
Chrysene	10K0272		100	ug/kg wet	N/A	5.0	96.9		97		80-121			
Dibenzo (a,h) anthracene	10K0272		200	ug/kg wet	N/A	7.5	233		116		87-128			
Fluoranthene	10K0272		200	ug/kg wet	N/A	10	180		90		78-129			
Fluorene	10K0272		200	ug/kg wet	N/A	10	207		104		64-122			
Indeno (1,2,3-cd) pyrene	10K0272		100	ug/kg wet	N/A	5.0	81.0		81		80-125			
1-Methylnaphthalene	10K0272		1000	ug/kg wet	N/A	30	793		79		72-115			
2-Methylnaphthalene	10K0272		1000	ug/kg wet	N/A	30	755		75		59-114			
Naphthalene	10K0272		1000	ug/kg wet	N/A	30	796		80		72-111			
Phenanthrene	10K0272		100	ug/kg wet	N/A	5.0	87.8		88		78-132			
Pyrene	10K0272		100	ug/kg wet	N/A	5.0	107		107		75-122			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>10K0272</i>			ug/kg wet					<i>90</i>		<i>61-128</i>			

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Metals														
QC Source Sample: WTK0162-04														
Mercury	10K0170	0.0224	0.29	mg/kg dry	N/A	0.012	0.313	0.308	100	98	56-140	2	24	
QC Source Sample: WTK0259-06														
Mercury	10K0298	<0.000065	0.0025	mg/L	0.000065	0.00023	0.00251	0.00253	100	101	67-141	1	13	
QC Source Sample: WTK0259-02														
Aluminum	10K0372	1110	5100	ug/L	150	200	5750	5680	92	90	75-125	1	20	
Antimony	10K0372	<0.61	50	ug/L	0.61	2.0	57.8	57.4	116	115	75-125	1	20	
Arsenic	10K0372	0.730	50	ug/L	0.61	2.0	51.0	49.9	101	98	75-125	2	20	
Barium	10K0372	39.3	50	ug/L	0.61	2.0	98.5	99.1	119	120	75-125	1	20	
Beryllium	10K0372	<0.12	50	ug/L	0.12	0.40	53.5	53.7	107	107	75-125	0	20	
Cadmium	10K0372	<0.12	50	ug/L	0.12	0.40	57.6	57.0	115	114	75-125	1	20	
Calcium	10K0372	117000	5100	ug/L	150	500	120000	122000	65	90	75-125	1	20	MHA
Chromium	10K0372	1.80	50	ug/L	0.61	2.0	49.7	48.6	96	94	75-125	2	20	
Cobalt	10K0372	1.22	50	ug/L	0.61	2.0	47.9	47.6	93	93	75-125	1	20	
Copper	10K0372	3.53	50	ug/L	0.61	2.0	51.0	51.1	95	95	75-125	0	20	
Iron	10K0372	1350	5100	ug/L	150	500	6000	5880	92	90	75-125	2	20	
Lead	10K0372	<0.61	50	ug/L	0.61	2.0	49.5	48.8	99	98	75-125	1	20	
Magnesium	10K0372	83700	5100	ug/L	150	500	87100	86300	67	51	75-125	1	20	MHA
Manganese	10K0372	51.5	50	ug/L	0.61	2.0	99.7	99.4	96	96	75-125	0	20	
Nickel	10K0372	<0.61	50	ug/L	0.61	2.0	44.0	44.3	88	89	75-125	1	20	
Potassium	10K0372	6040	5100	ug/L	150	500	11000	10700	99	93	75-125	3	20	
Selenium	10K0372	<0.61	50	ug/L	0.61	2.0	50.6	51.6	101	103	75-125	2	20	
Silver	10K0372	<0.61	50	ug/L	0.61	2.0	52.0	52.1	104	104	75-125	0	20	
Sodium	10K0372	24500	5100	ug/L	150	500	29200	29000	94	91	75-125	1	20	
Thallium	10K0372	<0.12	50	ug/L	0.12	0.40	51.2	51.4	102	103	75-125	0	20	
Vanadium	10K0372	3.12	50	ug/L	0.61	2.0	53.9	53.5	101	101	75-125	1	20	
Zinc	10K0372	9.35	50	ug/L	6.0	20	59.0	59.3	99	100	75-125	1	20	
Polychlorinated Biphenyls by EPA Method 8082														
QC Source Sample: WTK0161-02														
PCB-1016	10K0308	<0.033	0.30	mg/kg dry	N/A	0.030	0.35	0.37	116	122	70-130	5	20	
PCB-1221	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1232	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1242	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1248	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1254	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1260	10K0308	<0.033	0.30	mg/kg dry	N/A	0.030	0.28	0.28	91	93	70-130	1	20	
Surrogate: Decachlorobiphenyl	10K0308			mg/kg dry					83	85	10-177			
Surrogate: Tetrachloro-meta-xylene	10K0308			mg/kg dry					105	111	11-150			
QC Source Sample: WTK0205-01														
PCB-1016	10K0383	<0.062	5.0	ug/L	0.12	0.50	5.960	5.444	119	108	70-130	9	20	
PCB-1221	10K0383	<0.17		ug/L	0.34	0.50	<0.34	<0.34			70-130		20	
PCB-1232	10K0383	<0.065		ug/L	0.13	0.50	<0.13	<0.13			70-130		20	
PCB-1242	10K0383	<0.23		ug/L	0.46	0.50	<0.46	<0.46			70-130		20	
PCB-1248	10K0383	<0.062		ug/L	0.12	0.50	<0.12	<0.12			70-130		20	
PCB-1254	10K0383	<0.075		ug/L	0.15	0.50	<0.15	<0.15			70-130		20	
PCB-1260	10K0383	<0.070	5.0	ug/L	0.14	0.50	5.120	4.566	102	90	70-130	11	20	
Surrogate: Decachlorobiphenyl	10K0383			ug/L					113	105	10-158			
Surrogate: Tetrachloro-meta-xylene	10K0383			ug/L					113	103	40-137			

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VOCs by SW8260B													
QC Source Sample: WTK0161-01													
Benzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2540	2450	102	98	80-120	4	20
Bromochloromethane	10K0231	<35	2500	ug/kg dry	N/A	N/A	2690	2590	108	104	80-120	4	20
Bromodichloromethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2500	2430	100	97	80-120	3	20
Bromoform	10K0231	<25	2500	ug/kg dry	N/A	N/A	2390	2370	96	95	80-120	1	20
Bromomethane	10K0231	31.3	2500	ug/kg dry	N/A	N/A	2590	2480	102	98	60-140	5	20
n-Butylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2420	2350	97	94	80-120	3	20
sec-Butylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2430	2350	97	94	80-120	3	20
tert-Butylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2390	2320	96	93	80-120	3	20
Carbon Tetrachloride	10K0231	<25	2500	ug/kg dry	N/A	N/A	2550	2430	102	97	60-140	5	20
Chlorobenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2440	2390	98	96	80-120	2	20
Chlorodibromomethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2420	2400	97	96	80-120	1	20
Chloroethane	10K0231	<50	2500	ug/kg dry	N/A	N/A	2450	2270	98	91	60-140	7	20
Chloroform	10K0231	<25	2500	ug/kg dry	N/A	N/A	2620	2530	105	101	80-120	3	20
Chloromethane	10K0231	<50	2500	ug/kg dry	N/A	N/A	2320	2210	93	88	60-140	5	20
2-Chlorotoluene	10K0231	<50	2500	ug/kg dry	N/A	N/A	2350	2340	94	94	80-120	1	20
4-Chlorotoluene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2330	2290	93	92	80-120	1	20
1,2-Dibromo-3-chloropropane	10K0231	<50	2500	ug/kg dry	N/A	N/A	2310	2180	92	87	60-140	6	20
1,2-Dibromoethane (EDB)	10K0231	<25	2500	ug/kg dry	N/A	N/A	2450	2390	98	96	80-120	2	20
Dibromomethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2600	2500	104	100	80-120	4	20
1,2-Dichlorobenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2370	2360	95	94	80-120	1	20
1,3-Dichlorobenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2380	2370	95	95	80-120	1	20
1,4-Dichlorobenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2340	2350	93	94	80-120	1	20
Dichlorodifluoromethane	10K0231	<50	2500	ug/kg dry	N/A	N/A	2470	2310	99	92	60-140	7	20
1,1-Dichloroethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2560	2440	102	98	80-120	5	20
1,2-Dichloroethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2510	2430	100	97	80-120	3	20
1,1-Dichloroethene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2620	2450	105	98	80-120	6	20
cis-1,2-Dichloroethene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2680	2610	107	105	80-120	2	20
trans-1,2-Dichloroethene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2620	2450	105	98	80-120	6	20
1,2-Dichloropropane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2460	2400	99	96	80-120	3	20
1,3-Dichloropropane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2380	2330	95	93	80-120	2	20
2,2-Dichloropropane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2630	2460	105	98	60-140	7	20
1,1-Dichloropropene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2640	2470	105	99	80-120	6	20
cis-1,3-Dichloropropene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2490	2440	100	98	80-120	2	20
trans-1,3-Dichloropropene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2450	2400	98	96	80-120	2	20
Ethylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2450	2370	98	95	80-120	3	20
Hexachlorobutadiene	10K0231	<35	2500	ug/kg dry	N/A	N/A	2400	2380	96	95	60-140	1	20
Isopropylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2470	2390	99	96	80-120	3	20
p-Isopropyltoluene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2410	2360	96	95	80-120	2	20
Methylene Chloride	10K0231	<50	2500	ug/kg dry	N/A	N/A	2700	2550	108	102	80-120	6	20
Methyl tert-Butyl Ether	10K0231	<25	2500	ug/kg dry	N/A	N/A	2620	2520	105	101	80-120	4	20
Naphthalene	10K0231	<50	2500	ug/kg dry	N/A	N/A	2200	2200	88	88	60-140	0	20
n-Propylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2400	2350	96	94	80-120	2	20
Styrene	10K0231	<50	2500	ug/kg dry	N/A	N/A	2430	2400	97	96	80-120	1	20
1,1,1,2-Tetrachloroethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2380	2420	95	97	80-120	2	20
1,1,2,2-Tetrachloroethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2340	2320	93	93	80-120	1	20

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0161
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:33

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
QC Source Sample: WTK0161-01														
Tetrachloroethene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2540	2450	102	98	80-120	4	20	
Toluene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2440	2360	98	94	80-120	3	20	
1,2,3-Trichlorobenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2400	2410	96	96	80-120	0	20	
1,2,4-Trichlorobenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2400	2410	96	96	80-120	1	20	
1,1,1-Trichloroethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2640	2520	106	101	80-120	4	20	
1,1,2-Trichloroethane	10K0231	<35	2500	ug/kg dry	N/A	N/A	2430	2360	97	94	80-120	3	20	
Trichloroethene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2630	2510	105	100	80-120	5	20	
Trichlorofluoromethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2620	2420	105	97	80-120	8	20	
1,2,3-Trichloropropane	10K0231	<50	2500	ug/kg dry	N/A	N/A	2320	2230	93	89	80-120	4	20	
1,2,4-Trimethylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2390	2360	96	94	80-120	1	20	
1,3,5-Trimethylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2410	2370	97	95	80-120	2	20	
Vinyl chloride	10K0231	<35	2500	ug/kg dry	N/A	N/A	2500	2330	100	93	80-120	7	20	
Xylenes, total	10K0231	<85	7500	ug/kg dry	N/A	N/A	7420	7200	99	96	80-120	3	20	
Surrogate: Dibromofluoromethane	10K0231			ug/kg dry					107	105	80-120			
Surrogate: Toluene-d8	10K0231			ug/kg dry					98	99	80-120			
Surrogate: 4-Bromofluorobenzene	10K0231			ug/kg dry					102	102	80-120			
QC Source Sample: WTK0181-03														
Benzene	10K0319	<0.20	50	ug/L	0.20	2.0	46.8	47.7	94	95	80-120	2	20	
Bromobenzene	10K0319	<0.20	50	ug/L	0.20	2.0	47.2	48.7	94	97	80-120	3	24	
Bromochloromethane	10K0319	<0.50	50	ug/L	0.50	2.0	45.2	46.2	90	92	80-120	2	14	
Bromodichloromethane	10K0319	<0.20	50	ug/L	0.20	2.0	45.7	47.1	91	94	80-120	3	19	
Bromoform	10K0319	<0.20	50	ug/L	0.20	5.0	51.6	55.0	103	110	80-120	6	26	
Bromomethane	10K0319	<0.50	50	ug/L	0.50	5.0	48.7	42.0	97	84	60-140	15	18	
n-Butylbenzene	10K0319	<0.20	50	ug/L	0.20	2.0	53.4	56.0	107	112	80-120	5	19	
sec-Butylbenzene	10K0319	<0.25	50	ug/L	0.25	2.0	53.4	55.4	107	111	80-120	4	19	
tert-Butylbenzene	10K0319	<0.20	50	ug/L	0.20	2.0	53.4	55.2	107	110	80-120	3	17	
Carbon Tetrachloride	10K0319	<0.80	50	ug/L	0.80	2.0	45.5	46.6	91	93	60-140	2	17	
Chlorobenzene	10K0319	<0.20	50	ug/L	0.20	2.0	48.2	49.4	96	99	80-120	3	16	
Chlorodibromomethane	10K0319	<0.20	50	ug/L	0.20	2.0	46.7	48.1	93	96	80-120	3	23	
Chloroethane	10K0319	<1.0	50	ug/L	1.0	5.0	49.2	48.8	98	98	60-140	1	17	
Chloroform	10K0319	<0.20	50	ug/L	0.20	2.0	45.8	46.8	92	94	80-120	2	14	
Chloromethane	10K0319	<0.30	50	ug/L	0.30	2.0	49.3	53.4	99	107	60-140	8	16	
2-Chlorotoluene	10K0319	<0.50	50	ug/L	0.50	2.0	47.7	49.7	95	99	80-120	4	26	
4-Chlorotoluene	10K0319	<0.20	50	ug/L	0.20	2.0	47.5	49.6	95	99	80-120	4	26	
1,2-Dibromo-3-chloropropane	10K0319	<0.50	50	ug/L	0.50	2.0	51.3	62.4	103	125	60-140	20	26	
1,2-Dibromoethane (EDB)	10K0319	<0.20	50	ug/L	0.20	2.0	48.0	51.4	96	103	80-120	7	19	
Dibromomethane	10K0319	<0.20	50	ug/L	0.20	2.0	43.4	45.3	87	91	80-120	4	26	
1,2-Dichlorobenzene	10K0319	<0.20	50	ug/L	0.20	2.0	50.8	52.5	102	105	80-120	3	23	
1,3-Dichlorobenzene	10K0319	<0.20	50	ug/L	0.20	2.0	50.8	52.3	102	105	80-120	3	21	
1,4-Dichlorobenzene	10K0319	<0.50	50	ug/L	0.50	2.0	50.2	51.6	100	103	80-120	3	21	
Dichlorodifluoromethane	10K0319	<0.50	50	ug/L	0.50	2.0	51.4	52.8	103	106	60-140	3	19	
1,1-Dichloroethane	10K0319	<0.50	50	ug/L	0.50	2.0	47.3	48.0	95	96	80-120	2	18	
1,2-Dichloroethane	10K0319	<0.50	50	ug/L	0.50	2.0	44.8	46.2	90	92	80-120	3	19	
1,1-Dichloroethene	10K0319	<0.50	50	ug/L	0.50	2.0	46.7	47.2	93	94	80-120	1	18	
cis-1,2-Dichloroethene	10K0319	<0.50	50	ug/L	0.50	2.0	47.2	48.0	94	96	80-120	2	17	

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
QC Source Sample: WTK0181-03														
trans-1,2-Dichloroethene	10K0319	<0.50	50	ug/L	0.50	2.0	48.0	48.4	96	97	80-120	1	23	
1,2-Dichloropropane	10K0319	<0.50	50	ug/L	0.50	2.0	45.4	46.8	91	94	80-120	3	18	
1,3-Dichloropropane	10K0319	<0.25	50	ug/L	0.25	2.0	44.8	47.1	90	94	80-120	5	24	
2,2-Dichloropropane	10K0319	<0.50	50	ug/L	0.50	2.0	48.6	49.7	97	99	60-140	2	16	
1,1-Dichloropropene	10K0319	<0.50	50	ug/L	0.50	2.0	49.5	49.6	99	99	80-120	0	16	
cis-1,3-Dichloropropene	10K0319	<0.20	50	ug/L	0.20	2.0	46.8	48.4	94	97	80-120	3	20	
trans-1,3-Dichloropropene	10K0319	<0.20	50	ug/L	0.20	2.0	46.6	48.4	93	97	80-120	4	26	
Isopropyl Ether	10K0319	<0.50	50	ug/L	0.50	2.0	46.4	48.0	93	96	80-120	4	20	
Ethylbenzene	10K0319	<0.50	50	ug/L	0.50	2.0	49.5	51.0	99	102	80-120	3	16	
Hexachlorobutadiene	10K0319	<0.50	50	ug/L	0.50	2.0	52.6	54.3	105	109	60-140	3	20	
Isopropylbenzene	10K0319	<0.20	50	ug/L	0.20	2.0	50.1	52.0	100	104	80-120	4	22	
p-Isopropyltoluene	10K0319	<0.20	50	ug/L	0.20	2.0	49.0	51.8	98	104	80-120	5	20	
Methylene Chloride	10K0319	<1.0	50	ug/L	1.0	2.0	47.0	48.4	94	97	80-120	3	24	
Methyl tert-Butyl Ether	10K0319	<0.50	50	ug/L	0.50	2.0	45.1	48.0	90	96	80-120	6	18	
Naphthalene	10K0319	<0.25	50	ug/L	0.25	5.0	49.1	59.4	98	119	60-140	19	24	
n-Propylbenzene	10K0319	<0.50	50	ug/L	0.50	2.0	49.1	51.1	98	102	80-120	4	23	
Styrene	10K0319	<0.50	50	ug/L	0.50	5.0	50.6	52.2	101	104	80-120	3	14	
1,1,1,2-Tetrachloroethane	10K0319	<0.25	50	ug/L	0.25	2.0	48.2	49.9	96	100	80-120	3	17	
1,1,2,2-Tetrachloroethane	10K0319	<0.20	50	ug/L	0.20	2.0	51.9	57.3	104	115	80-120	10	26	
Tetrachloroethene	10K0319	<0.50	50	ug/L	0.50	2.0	49.9	51.1	100	102	80-120	2	18	
Toluene	10K0319	<0.50	50	ug/L	0.50	2.0	49.7	50.7	99	101	80-120	2	18	
1,2,3-Trichlorobenzene	10K0319	<0.25	50	ug/L	0.25	2.0	47.2	54.3	94	109	80-120	14	24	
1,2,4-Trichlorobenzene	10K0319	<0.25	50	ug/L	0.25	2.0	49.1	53.0	98	106	80-120	8	21	
1,1,1-Trichloroethane	10K0319	<0.50	50	ug/L	0.50	2.0	47.7	48.7	95	97	80-120	2	19	
1,1,2-Trichloroethane	10K0319	<0.25	50	ug/L	0.25	2.0	44.4	46.7	89	93	80-120	5	28	
Trichloroethene	10K0319	<0.20	50	ug/L	0.20	2.0	45.9	47.1	92	94	80-120	3	18	
Trichlorofluoromethane	10K0319	<0.50	50	ug/L	0.50	2.0	46.1	46.6	92	93	80-120	1	19	
1,2,3-Trichloropropane	10K0319	<0.50	50	ug/L	0.50	2.0	47.0	53.3	94	107	80-120	13	26	
1,2,4-Trimethylbenzene	10K0319	<0.20	50	ug/L	0.20	2.0	48.9	51.2	98	102	80-120	5	24	
1,3,5-Trimethylbenzene	10K0319	<0.20	50	ug/L	0.20	2.0	50.0	52.1	100	104	80-120	4	24	
Vinyl chloride	10K0319	<0.20	50	ug/L	0.20	2.0	47.4	48.6	95	97	80-120	2	17	
Xylenes, Total	10K0319	<0.50	150	ug/L	0.50	2.0	149	153	99	102	80-120	3	13	
Surrogate: Dibromofluoromethane	10K0319			ug/L					103	102	80-120			
Surrogate: Toluene-d8	10K0319			ug/L					108	108	80-120			
Surrogate: 4-Bromofluorobenzene	10K0319			ug/L					95	96	80-120			
Pentafluorobenzene	10K0319	ND	50	ug/L	N/A	N/A	50.0	50.0	100	100	50-200			
1,4-Difluorobenzene	10K0319	ND	50	ug/L	N/A	N/A	50.0	50.0	100	100	50-200			
Chlorobenzene-d5	10K0319	ND	50	ug/L	N/A	N/A	50.0	50.0	100	100	50-200			
1,4-Dichlorobenzene-d4	10K0319	ND	50	ug/L	N/A	N/A	50.0	50.0	100	100	50-200			

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
PNAs by SW8310													
QC Source Sample: WTK0151-01													
Acenaphthene	10K0205	<0.33	50	ug/L	1.7	6.5	33.2	38.7	66	77	34-125	15	40
Acenaphthylene	10K0205	<0.69	100	ug/L	3.5	13	71.9	82.4	72	82	36-129	14	41
Anthracene	10K0205	<0.038	5.0	ug/L	0.19	0.65	3.56	3.82	71	76	37-130	7	48
Benzo (a) anthracene	10K0205	<0.044	5.0	ug/L	0.22	0.65	3.54	3.72	71	74	36-133	5	38
Benzo (b) fluoranthene	10K0205	<0.098	10	ug/L	0.49	1.3	7.30	7.88	73	79	54-133	8	30
Benzo (k) fluoranthene	10K0205	<0.049	5.0	ug/L	0.25	0.65	3.57	3.85	71	77	39-143	7	31
Benzo (a) pyrene	10K0205	<0.032	5.0	ug/L	0.16	0.65	3.25	3.51	65	70	25-139	8	36
Benzo (g,h,i) perylene	10K0205	<0.12	10	ug/L	0.60	1.3	7.09	7.73	71	77	51-133	9	39
Chrysene	10K0205	<0.041	5.0	ug/L	0.21	0.65	3.85	4.56	77	91	40-130	17	33
Dibenzo (a,h) anthracene	10K0205	<0.13	10	ug/L	0.65	1.3	7.70	7.92	77	79	39-143	3	31
Fluoranthene	10K0205	<0.081	10	ug/L	0.41	1.3	8.34	8.94	83	89	42-134	7	34
Fluorene	10K0205	<0.062	10	ug/L	0.31	1.3	8.73	9.38	87	94	38-135	7	40
Indeno (1,2,3-cd) pyrene	10K0205	<0.062	5.0	ug/L	0.31	0.65	3.60	3.90	72	78	47-129	8	32
1-Methylnaphthalene	10K0205	<0.32	50	ug/L	1.6	6.5	34.1	40.1	68	80	24-124	16	42
2-Methylnaphthalene	10K0205	<0.31	50	ug/L	1.6	6.5	30.5	39.5	61	79	22-121	26	42
Naphthalene	10K0205	<0.40	50	ug/L	2.0	6.5	34.5	38.0	69	76	25-122	10	44
Phenanthrene	10K0205	<0.030	5.0	ug/L	0.15	0.65	3.51	3.71	70	74	40-138	6	37
Pyrene	10K0205	<0.044	5.0	ug/L	0.22	0.65	3.88	4.30	78	86	33-128	10	46
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>10K0205</i>			ug/L					<i>86</i>	<i>89</i>	<i>50-107</i>		
QC Source Sample: WTK0164-19													
Acenaphthene	10K0272	0.00	1100	ug/kg dry	N/A	55	870		79		62-127		
Acenaphthylene	10K0272	0.00	2200	ug/kg dry	N/A	94	1870		85		68-122		
Anthracene	10K0272	0.00	110	ug/kg dry	N/A	5.5	91.9		83		50-138		
Benzo (a) anthracene	10K0272	0.00	110	ug/kg dry	N/A	5.5	113		102		45-153		
Benzo (b) fluoranthene	10K0272	0.00	220	ug/kg dry	N/A	5.5	197		89		69-149		
Benzo (k) fluoranthene	10K0272	0.00	110	ug/kg dry	N/A	5.5	119		108		66-153		
Benzo (a) pyrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	88.6		80		39-147		
Benzo (g,h,i) perylene	10K0272	0.00	220	ug/kg dry	N/A	5.5	197		89		63-152		
Chrysene	10K0272	0.00	110	ug/kg dry	N/A	5.5	108		97		53-149		
Dibenzo (a,h) anthracene	10K0272	0.00	220	ug/kg dry	N/A	8.3	242		110		81-134		
Fluoranthene	10K0272	0.00	220	ug/kg dry	N/A	11	207		94		62-143		
Fluorene	10K0272	0.00	220	ug/kg dry	N/A	11	226		103		51-133		
Indeno (1,2,3-cd) pyrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	86.7		79		55-151		
1-Methylnaphthalene	10K0272	0.00	1100	ug/kg dry	N/A	33	916		83		64-126		
2-Methylnaphthalene	10K0272	0.00	1100	ug/kg dry	N/A	33	873		79		44-131		
Naphthalene	10K0272	0.00	1100	ug/kg dry	N/A	33	880		80		60-125		
Phenanthrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	99.8		90		57-155		
Pyrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	105		95		47-147		
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>10K0272</i>			ug/kg dry					<i>92</i>		<i>55-120</i>		

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0161
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:33

CERTIFICATION SUMMARY

TestAmerica Watertown

Method	Matrix	Nelac	Wisconsin
SM 2540G	Solid/Soil	X	X
SW 6010B	Solid/Soil	X	X
SW 6020A	Water - NonPotable	X	X
SW 7470A	Water - NonPotable		X
SW 7471A	Solid/Soil		X
SW 8082	Solid/Soil	X	X
SW 8082	Water - NonPotable	X	X
SW 8260B	Solid/Soil	X	X
SW 8260B	Water - NonPotable	X	X
SW 8310	Solid/Soil	X	X
SW 8310	Water - NonPotable	X	X

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Worcester, MA 01608
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Work Order: WTK0161
Project: Former Mirro Plant
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Received: 11/03/10
Reported: 12/03/10 15:33

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Results reported between the Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.
- MHA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.

ADDITIONAL COMMENTS

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Watertown Division
602 Commerce Drive
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

WTR 0161 Page 1 of 3

Client Name: **AECOM**

Client #:

Address: **558 N Main St.**

Project Name: **Former Minc Plant #9**

City/State/Zip Code: **Oshkosh, WI 54901**

Project #: **6016 3491**

Project Manager: **Andrew Hott**

Site/Location ID: **Merrifosse** State: **WI**

Telephone Number: **920 236 6713**

Fax:

Report To: **Andrew Hott / Mike Bingham**

Sampler Name: (Print Name) **Heather Cleveland**

Invoice To: **MIKE Bingham / AES**

Sampler Signature: *Heather Cleveland*

Quote #:

PO#:

E-mail address: **Andrew.Hott@acorn.com**
Heather.Cleveland@acorn.com

Analyze For:

QC Deliverables

- None
- Level 2
- (Batch QC)
- Level 3
- Level 4
- Other: _____

TAT: Standard
 Rush (surcharges may apply)

Date Needed:

Fax Results: Y N

E-mail: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	Preservation & # of Containers	ANALYZE FOR	REMARKS
M5-SB-TW-S02-4'	10/21/06	1150	G	N	S	HNO ₃ HCl NaOH H ₂ SO ₄ Methanol None Other (Specify)	PAH VOC PCB TAL	
M5-SB-TW-S02-4'		1152						
M5-SB-TW-S02-4'		1155						
M5-SB-TW-S02-4'		1158						
M5-SB-2 @ 2-3.5'		1250						
M5-SB-2 @ 2-3.5'		1255						
M5-SB-2 @ 2-3.5'		1257						
M5-SB-1 @ 2-4'		1310						
M5-SB-1 @ 2-4'		1315						
M5-SB-1 @ 2-4' DUP		1317						

Special Instructions: **Supply data package in accordance with the**

Former Minc Plant #9 OAC & GAPP

Relinquished By: <i>Heather Cleveland</i>	Date: <i>11/21/06</i>	Time: <i>1400</i>	Received By: <i>Mike Bingham</i>	Date: <i>11/30/06</i>	Time: <i>7:00</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

LABORATORY COMMENTS:
Init Lab Temp: _____
Rec Lab Temp: _____
Custody Seals: *OK* N/A Y N
Bottles Supplied by TestAmerica: *OK*
Method of Shipment: *OK*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Watertown Division
602 Commerce Drive
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

To assist us in using the proper analytical methods,
Is this work being conducted for regulatory purposes?
Compliance Monitoring

WTK0161 Page 2 of 3

Client Name

Address:

City/State/Zip Code:

Project Manager:

Telephone Number:

Sampler Name: (Print Name)

Sampler Signature:

Client #:

Project Name:

Project #:

Site/Location ID:

Report To:

Invoice To:

Quote #:

PO#:

State:

Former Mine Plant #9

See previous page

E-mail address:

TAT

Standard

Date Needed:

Fax Results: Y N

E-mail: Y N

SAMPLE ID

MS-SB-1 @ 2-A1

Equipment Blank

Equipment Blank

Equipment Blank

Equipment Blank

Date Sampled

Time Sampled

G = Grab, C = Composite

Field Filtered

Matrix
SL - Sludge DW - Drinking Water
GW - Groundwater S - Soil/Solid
WW - Wastewater Specify Other

Preservation & # of Containers

HNO₃

HCl

NaOH

H₂SO₄

Methanol

None

Other (Specify)

PAH

VOC

PCB

TAL

Analyze For:

GC Deliverables

None

Level 2

(Batch GC)

Level 3

Level 4

Other:

REMARKS

only 1

Special Instructions:

see previous page

Relinquished By:

Relinquished By:

Relinquished By:

Date:

Date:

Date:

Time:

Time:

Time:

Received By:

Received By:

Received By:

Date:

Date:

Date:

Time:

Time:

Time:

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Temp:

Custody Seals:

Bottles Supplied by TestAmerica:

Method of Shipment:

N/A

N

N

December 03, 2010

Client: Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608

Work Order: WTK0162
Project Name: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc, WI

Attn: Mr. Michael Bingham

Date Received: 11/03/10

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MB-SB-12@2.5-4' DUP	WTK0162-01	10/28/10 11:05
MB-SB-12@2.5-4'	WTK0162-02	10/28/10 11:10
MB-SB-12@5-7'	WTK0162-03	10/28/10 11:45
MB-SB-12@5-7'	WTK0162-04	10/28/10 11:50
MB-SB-MW-19@2-4'	WTK0162-05	10/28/10 13:00
MB-SB-MW-19@2-4'	WTK0162-06	10/28/10 13:00
MB-SB-MW-19@2-4' DUP	WTK0162-07	10/28/10 13:05
MB-SB-MW-19@5.5-8'	WTK0162-08	10/28/10 13:10
MB-SB-MW-19@5.5-8' DUP	WTK0162-09	10/28/10 13:10
MB-SB-MW-19@5.5-8'	WTK0162-10	10/28/10 13:15
MB-SB-13@1.5-2'	WTK0162-11	10/28/10 13:30
MB-SB-13@1.5-2'	WTK0162-12	10/28/10 13:35
MB-SB-13@1.5-2'	WTK0162-13	10/28/10 13:38
MB-SB-14@2.5-4'	WTK0162-14	10/28/10 14:00
MB-SB-14@2.5-4'	WTK0162-15	10/28/10 14:05
MB-SB-14@6-7.5'	WTK0162-16	10/28/10 14:25
MB-SB-15@2-4'	WTK0162-17	10/28/10 14:35
MB-SB-15@2-4'	WTK0162-18	10/28/10 14:40
MB-SB-15@5.6-6'	WTK0162-19	10/28/10 14:45
MB-SB-8@6.5-8'	WTK0162-20	10/28/10 16:00
MB-SB-8@6.5-8' DUP	WTK0162-21	10/28/10 16:05
MB-SB-8@6.5-8'	WTK0162-22	10/28/10 16:05
MB-SB-8@9.5-12'	WTK0162-23	10/28/10 16:05

Samples were received on ice into laboratory at a temperature of 0 °C.

Wisconsin Certification Number: 128053530

The Chain(s) of Custody, -1 pages, are included and are an integral part of this report.

Unless subcontracted, volatiles analyses (including VOC, PVOC, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0162
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:35

Approved By:



TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-01 (MB-SB-12@2.5-4' DUP - Soil)						Sampled: 10/28/10 11:05			
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
VOCs by SW8260B									
Benzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Bromobenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Bromochloromethane	<39		ug/kg dry	39	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Bromodichloromethane	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Bromoform	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Bromomethane	<110		ug/kg dry	110	1	11/08/10 13:39	LCK	10K0231	SW 8260B
n-Butylbenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
sec-Butylbenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
tert-Butylbenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Chlorobenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Chlorodibromomethane	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Chloroethane	<56		ug/kg dry	56	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Chloroform	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Chloromethane	<56		ug/kg dry	56	1	11/08/10 13:39	LCK	10K0231	SW 8260B
2-Chlorotoluene	<56		ug/kg dry	56	1	11/08/10 13:39	LCK	10K0231	SW 8260B
4-Chlorotoluene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<56		ug/kg dry	56	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Dibromomethane	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,3-Dichlorobenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<56		ug/kg dry	56	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Isopropyl Ether	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Ethylbenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<39		ug/kg dry	39	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Isopropylbenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Methylene Chloride	<56		ug/kg dry	56	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Naphthalene	<56		ug/kg dry	56	1	11/08/10 13:39	LCK	10K0231	SW 8260B
n-Propylbenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Styrene	<56		ug/kg dry	56	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0162
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-01 (MB-SB-12@2.5-4' DUP - Soil) - cont.						Sampled: 10/28/10 11:05			
VOCs by SW8260B - cont.									
1,1,2,2-Tetrachloroethane	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Tetrachloroethene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Toluene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<39		ug/kg dry	39	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Trichloroethene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<56		ug/kg dry	56	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<28		ug/kg dry	28	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Vinyl chloride	<39		ug/kg dry	39	1	11/08/10 13:39	LCK	10K0231	SW 8260B
Xylenes, total	<95		ug/kg dry	95	1	11/08/10 13:39	LCK	10K0231	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	100 %								
<i>Surr: Toluene-d8 (80-120%)</i>	97 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	102 %								
Sample ID: WTK0162-02 (MB-SB-12@2.5-4' - Soil)						Sampled: 10/28/10 11:10			
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
Metals									
Aluminum	4500		mg/kg dry	2.9	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Antimony	1.3	B	mg/kg dry	0.057	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Arsenic	8.1		mg/kg dry	2.9	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Barium	16		mg/kg dry	0.13	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Beryllium	0.18		mg/kg dry	0.013	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Cadmium	<0.11		mg/kg dry	0.11	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Calcium	47000	B	mg/kg dry	1.4	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Chromium	9.3		mg/kg dry	0.21	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Cobalt	3.8		mg/kg dry	0.63	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Copper	30		mg/kg dry	1.8	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Iron	9900		mg/kg dry	1.5	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Lead	11		mg/kg dry	1.4	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Magnesium	29000		mg/kg dry	1.4	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Manganese	240		mg/kg dry	0.091	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Mercury	0.015		mg/kg dry	0.012	1.1	11/08/10 11:00	jej	10K0170	SW 7471A
Nickel	9.0		mg/kg dry	0.40	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Potassium	640		mg/kg dry	1.9	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Selenium	5.8		mg/kg dry	4.6	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Silver	0.17		mg/kg dry	0.13	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Sodium	280		mg/kg dry	1.0	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Thallium	<3.7		mg/kg dry	3.7	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Vanadium	22		mg/kg dry	0.15	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B
Zinc	23		mg/kg dry	0.27	1.0	12/02/10 16:44	mmm	10K0243	SW 6010B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-03 (MB-SB-12@5-7' - Soil)						Sampled: 10/28/10 11:45			
General Chemistry Parameters									
% Solids	89		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
VOCs by SW8260B									
Benzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Bromobenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Bromochloromethane	<43		ug/kg dry	43	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Bromodichloromethane	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Bromoform	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Bromomethane	<120		ug/kg dry	120	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
n-Butylbenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
sec-Butylbenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
tert-Butylbenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Chlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Chlorodibromomethane	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Chloroethane	<62		ug/kg dry	62	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Chloroform	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Chloromethane	<62		ug/kg dry	62	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
2-Chlorotoluene	<62		ug/kg dry	62	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
4-Chlorotoluene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<62		ug/kg dry	62	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Dibromomethane	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,3-Dichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<62		ug/kg dry	62	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Isopropyl Ether	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Ethylbenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<43		ug/kg dry	43	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Isopropylbenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Methylene Chloride	<62		ug/kg dry	62	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Naphthalene	<62		ug/kg dry	62	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
n-Propylbenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Styrene	<62		ug/kg dry	62	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,1,1,2,2-Tetrachloroethane	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Tetrachloroethene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0162
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-03 (MB-SB-12@5-7' - Soil) - cont.						Sampled: 10/28/10 11:45			
VOCs by SW8260B - cont.									
Toluene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<43		ug/kg dry	43	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Trichloroethene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<62		ug/kg dry	62	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<31		ug/kg dry	31	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Vinyl chloride	<43		ug/kg dry	43	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1.1	11/08/10 14:06	LCK	10K0231	SW 8260B
Surr: Dibromofluoromethane (80-120%)	102 %								
Surr: Toluene-d8 (80-120%)	97 %								
Surr: 4-Bromofluorobenzene (80-120%)	100 %								
Sample ID: WTK0162-04 (MB-SB-12@5-7' - Soil)						Sampled: 10/28/10 11:50			
General Chemistry Parameters									
% Solids	86		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
Metals									
Aluminum	4700		mg/kg dry	3.0	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Antimony	<0.059		mg/kg dry	0.059	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Arsenic	<3.0		mg/kg dry	3.0	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Barium	29		mg/kg dry	0.13	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Beryllium	0.23		mg/kg dry	0.013	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Cadmium	0.35		mg/kg dry	0.12	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Calcium	47000	B	mg/kg dry	1.4	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Chromium	9.0		mg/kg dry	0.21	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Cobalt	3.7		mg/kg dry	0.65	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Copper	33		mg/kg dry	1.9	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Iron	9500		mg/kg dry	1.5	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Lead	20		mg/kg dry	1.4	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Magnesium	23000		mg/kg dry	1.4	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Manganese	340		mg/kg dry	0.095	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Mercury	0.022		mg/kg dry	0.012	1.0	11/08/10 11:02	jej	10K0170	SW 7471A
Nickel	8.1		mg/kg dry	0.41	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Potassium	780		mg/kg dry	2.0	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Selenium	<4.7		mg/kg dry	4.7	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Silver	<0.13		mg/kg dry	0.13	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Sodium	290		mg/kg dry	1.0	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Thallium	4.7	B	mg/kg dry	3.8	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Vanadium	21		mg/kg dry	0.15	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B
Zinc	27		mg/kg dry	0.28	1.0	12/02/10 16:48	mmm	10K0243	SW 6010B

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 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-05 (MB-SB-MW-19@2-4' - Soil)						Sampled: 10/28/10 13:00			
General Chemistry Parameters									
% Solids	91		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
VOCs by SW8260B									
Benzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Bromobenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Bromochloromethane	<46		ug/kg dry	46	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Bromodichloromethane	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Bromoform	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Bromomethane	<130		ug/kg dry	130	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
n-Butylbenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
sec-Butylbenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
tert-Butylbenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Chlorobenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Chlorodibromomethane	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Chloroethane	<66		ug/kg dry	66	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Chloroform	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Chloromethane	<66		ug/kg dry	66	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
2-Chlorotoluene	<66		ug/kg dry	66	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
4-Chlorotoluene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<66		ug/kg dry	66	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Dibromomethane	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,3-Dichlorobenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<66		ug/kg dry	66	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Isopropyl Ether	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Ethylbenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<46		ug/kg dry	46	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Isopropylbenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Methylene Chloride	<66		ug/kg dry	66	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Naphthalene	120		ug/kg dry	66	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
n-Propylbenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Styrene	<66		ug/kg dry	66	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,1,1,2,2-Tetrachloroethane	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Tetrachloroethene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B

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Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-05 (MB-SB-MW-19@2-4' - Soil) - cont.						Sampled: 10/28/10 13:00			
VOCs by SW8260B - cont.									
Toluene	61		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<46		ug/kg dry	46	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Trichloroethene	120		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<66		ug/kg dry	66	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	51		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<33		ug/kg dry	33	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Vinyl chloride	<46		ug/kg dry	46	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
Xylenes, total	150		ug/kg dry	110	1.2	11/08/10 14:32	LCK	10K0231	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>106 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>97 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>103 %</i>								

Sample ID: WTK0162-06 (MB-SB-MW-19@2-4' - Soil)						Sampled: 10/28/10 13:00			
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
Metals									
Aluminum	3800		mg/kg dry	2.8	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Antimony	0.80	B	mg/kg dry	0.056	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Arsenic	7.2		mg/kg dry	2.8	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Barium	29		mg/kg dry	0.12	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Beryllium	0.26		mg/kg dry	0.012	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Cadmium	0.32		mg/kg dry	0.11	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Calcium	52000	B	mg/kg dry	1.3	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Chromium	7.2		mg/kg dry	0.20	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Cobalt	3.5		mg/kg dry	0.61	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Copper	190		mg/kg dry	1.8	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Iron	8400		mg/kg dry	1.5	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Lead	28		mg/kg dry	1.3	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Magnesium	29000		mg/kg dry	1.3	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Manganese	200		mg/kg dry	0.089	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Mercury	<0.011		mg/kg dry	0.011	1.0	11/08/10 11:09	jej	10K0170	SW 7471A
Nickel	27		mg/kg dry	0.39	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Potassium	590		mg/kg dry	1.9	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Selenium	4.7		mg/kg dry	4.5	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Silver	0.29		mg/kg dry	0.12	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Sodium	430		mg/kg dry	0.98	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Thallium	<3.6		mg/kg dry	3.6	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Vanadium	17		mg/kg dry	0.15	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B
Zinc	27		mg/kg dry	0.27	1.0	12/02/10 17:00	mmm	10K0243	SW 6010B

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0162
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-07 (MB-SB-MW-19@2-4' DUP - Soil)						Sampled: 10/28/10 13:05			
General Chemistry Parameters									
% Solids	93		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
Metals									
Aluminum	3500		mg/kg dry	2.8	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Antimony	2.1	B	mg/kg dry	0.055	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Arsenic	4.5		mg/kg dry	2.8	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Barium	21		mg/kg dry	0.12	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Beryllium	0.22		mg/kg dry	0.012	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Cadmium	0.14		mg/kg dry	0.11	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Calcium	51000	B	mg/kg dry	1.3	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Chromium	7.2		mg/kg dry	0.20	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Cobalt	3.4		mg/kg dry	0.61	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Copper	28		mg/kg dry	1.8	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Iron	7400		mg/kg dry	1.4	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Lead	18		mg/kg dry	1.3	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Magnesium	29000		mg/kg dry	1.3	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Manganese	210		mg/kg dry	0.088	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Mercury	<0.011		mg/kg dry	0.011	1.0	11/08/10 11:15	jej	10K0170	SW 7471A
Nickel	9.2		mg/kg dry	0.39	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Potassium	560		mg/kg dry	1.9	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Selenium	<4.4		mg/kg dry	4.4	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Silver	0.15		mg/kg dry	0.12	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Sodium	370		mg/kg dry	0.97	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Thallium	4.4	B	mg/kg dry	3.5	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Vanadium	16		mg/kg dry	0.14	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Zinc	22		mg/kg dry	0.26	1.0	12/02/10 17:13	mmm	10K0243	SW 6010B
Sample ID: WTK0162-08 (MB-SB-MW-19@5.5-8' - Soil)						Sampled: 10/28/10 13:10			
General Chemistry Parameters									
% Solids	83		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Bromochloromethane	<42		ug/kg dry	42	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Bromoform	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Bromomethane	<120		ug/kg dry	120	1	11/08/10 14:59	LCK	10K0231	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Chloroethane	<60		ug/kg dry	60	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Chloroform	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Chloromethane	<60		ug/kg dry	60	1	11/08/10 14:59	LCK	10K0231	SW 8260B
2-Chlorotoluene	<60		ug/kg dry	60	1	11/08/10 14:59	LCK	10K0231	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<60		ug/kg dry	60	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-08 (MB-SB-MW-19@5.5-8' - Soil) - cont.						Sampled: 10/28/10 13:10			
VOCs by SW8260B - cont.									
1,3-Dichlorobenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<60		ug/kg dry	60	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<42		ug/kg dry	42	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Methylene Chloride	<60		ug/kg dry	60	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Naphthalene	<60		ug/kg dry	60	1	11/08/10 14:59	LCK	10K0231	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Styrene	<60		ug/kg dry	60	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Tetrachloroethene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Toluene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<42		ug/kg dry	42	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Trichloroethene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<60		ug/kg dry	60	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<30		ug/kg dry	30	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Vinyl chloride	<42		ug/kg dry	42	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1	11/08/10 14:59	LCK	10K0231	SW 8260B
Surr: Dibromofluoromethane (80-120%)	104 %								
Surr: Toluene-d8 (80-120%)	97 %								
Surr: 4-Bromofluorobenzene (80-120%)	102 %								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-09 (MB-SB-MW-19@5.5-8' DUP - Soil)						Sampled: 10/28/10 13:10			
General Chemistry Parameters									
% Solids	83		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Bromochloromethane	<42		ug/kg dry	42	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Bromoform	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Bromomethane	<120		ug/kg dry	120	1	11/08/10 15:26	LCK	10K0231	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Chloroethane	<60		ug/kg dry	60	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Chloroform	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Chloromethane	<60		ug/kg dry	60	1	11/08/10 15:26	LCK	10K0231	SW 8260B
2-Chlorotoluene	<60		ug/kg dry	60	1	11/08/10 15:26	LCK	10K0231	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<60		ug/kg dry	60	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,3-Dichlorobenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<60		ug/kg dry	60	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<42		ug/kg dry	42	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Methylene Chloride	<60		ug/kg dry	60	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Naphthalene	<60		ug/kg dry	60	1	11/08/10 15:26	LCK	10K0231	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Styrene	<60		ug/kg dry	60	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Tetrachloroethene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B

Advanced Environmental Solutions, Inc.
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Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-09 (MB-SB-MW-19@5.5-8' DUP - Soil) - cont.						Sampled: 10/28/10 13:10			
VOCs by SW8260B - cont.									
Toluene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<42		ug/kg dry	42	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Trichloroethene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<60		ug/kg dry	60	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<30		ug/kg dry	30	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Vinyl chloride	<42		ug/kg dry	42	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1	11/08/10 15:26	LCK	10K0231	SW 8260B
Surr: Dibromofluoromethane (80-120%)	99 %								
Surr: Toluene-d8 (80-120%)	99 %								
Surr: 4-Bromofluorobenzene (80-120%)	102 %								
Sample ID: WTK0162-10 (MB-SB-MW-19@5.5-8' - Soil)						Sampled: 10/28/10 13:15			
General Chemistry Parameters									
% Solids	83		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
Metals									
Aluminum	3900		mg/kg dry	2.9	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Antimony	1.3	B	mg/kg dry	0.058	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Arsenic	3.0		mg/kg dry	2.9	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Barium	11		mg/kg dry	0.13	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Beryllium	0.18		mg/kg dry	0.013	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Cadmium	0.17		mg/kg dry	0.12	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Calcium	71000	B	mg/kg dry	1.4	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Chromium	8.5		mg/kg dry	0.21	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Cobalt	3.9		mg/kg dry	0.63	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Copper	11		mg/kg dry	1.8	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Iron	8100		mg/kg dry	1.5	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Lead	4.2		mg/kg dry	1.4	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Magnesium	45000		mg/kg dry	1.4	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Manganese	240		mg/kg dry	0.092	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Mercury	0.012		mg/kg dry	0.011	0.9	11/08/10 11:18	jej	10K0170	SW 7471A
Nickel	7.8		mg/kg dry	0.40	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Potassium	580		mg/kg dry	2.0	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Selenium	<4.6		mg/kg dry	4.6	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Silver	0.15		mg/kg dry	0.13	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Sodium	350		mg/kg dry	1.0	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Thallium	<3.7		mg/kg dry	3.7	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Vanadium	18		mg/kg dry	0.15	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B
Zinc	14		mg/kg dry	0.28	1.0	12/02/10 17:16	mmm	10K0243	SW 6010B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-11 (MB-SB-13@1.5-2' - Soil)						Sampled: 10/28/10 13:30			
General Chemistry Parameters									
% Solids	89		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
VOCs by SW8260B									
Benzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Bromobenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Bromochloromethane	<43		ug/kg dry	43	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Bromodichloromethane	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Bromoform	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Bromomethane	<120		ug/kg dry	120	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
n-Butylbenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
sec-Butylbenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
tert-Butylbenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Chlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Chlorodibromomethane	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Chloroethane	<62		ug/kg dry	62	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Chloroform	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Chloromethane	<62		ug/kg dry	62	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
2-Chlorotoluene	<62		ug/kg dry	62	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
4-Chlorotoluene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<62		ug/kg dry	62	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Dibromomethane	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	57		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,3-Dichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<62		ug/kg dry	62	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Isopropyl Ether	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Ethylbenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<43		ug/kg dry	43	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Isopropylbenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Methylene Chloride	<62		ug/kg dry	62	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Naphthalene	<62		ug/kg dry	62	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
n-Propylbenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Styrene	<62		ug/kg dry	62	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,1,1,2,2-Tetrachloroethane	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Tetrachloroethene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-11 (MB-SB-13@1.5-2' - Soil) - cont.						Sampled: 10/28/10 13:30			
VOCs by SW8260B - cont.									
Toluene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	120		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<43		ug/kg dry	43	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Trichloroethene	47		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<62		ug/kg dry	62	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<31		ug/kg dry	31	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Vinyl chloride	<43		ug/kg dry	43	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1.1	11/08/10 15:53	LCK	10K0231	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>102 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>98 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>100 %</i>								

Sample ID: WTK0162-12 (MB-SB-13@1.5-2' - Soil)						Sampled: 10/28/10 13:35			
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
Metals									
Aluminum	4700		mg/kg dry	2.7	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Antimony	0.33	B	mg/kg dry	0.053	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Arsenic	7.7		mg/kg dry	2.7	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Barium	22		mg/kg dry	0.12	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Beryllium	0.20		mg/kg dry	0.012	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Cadmium	0.11		mg/kg dry	0.11	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Calcium	72000	B	mg/kg dry	1.3	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Chromium	9.0		mg/kg dry	0.19	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Cobalt	3.3		mg/kg dry	0.58	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Copper	69		mg/kg dry	1.7	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Iron	8100		mg/kg dry	1.4	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Lead	12		mg/kg dry	1.3	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Magnesium	38000		mg/kg dry	1.3	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Manganese	230		mg/kg dry	0.085	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Mercury	<0.011		mg/kg dry	0.011	1.0	11/08/10 11:20	jej	10K0170	SW 7471A
Nickel	7.7		mg/kg dry	0.37	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Potassium	720		mg/kg dry	1.8	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Selenium	<4.3		mg/kg dry	4.3	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Silver	0.53		mg/kg dry	0.12	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Sodium	260		mg/kg dry	0.94	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Thallium	8.0	B	mg/kg dry	3.4	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Vanadium	17		mg/kg dry	0.14	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B
Zinc	32		mg/kg dry	0.26	1.0	12/02/10 17:20	mmm	10K0243	SW 6010B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-13 (MB-SB-13@1.5-2' - Soil)					Sampled: 10/28/10 13:38				
General Chemistry Parameters									
% Solids	89		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:25	CLJ	10K0308	SW 8082
PCB-1221	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:25	CLJ	10K0308	SW 8082
PCB-1232	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:25	CLJ	10K0308	SW 8082
PCB-1242	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:25	CLJ	10K0308	SW 8082
PCB-1248	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:25	CLJ	10K0308	SW 8082
PCB-1254	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:25	CLJ	10K0308	SW 8082
PCB-1260	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:25	CLJ	10K0308	SW 8082
Surr: Decachlorobiphenyl (10-177%)	85 %								
Surr: Tetrachloro-meta-xylene (11-150%)	104 %								
Sample ID: WTK0162-14 (MB-SB-14@2.5-4' - Soil)					Sampled: 10/28/10 14:00				
General Chemistry Parameters									
% Solids	91		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
VOCs by SW8260B									
Benzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Bromobenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Bromochloromethane	<50	P9	ug/kg dry	50	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Bromodichloromethane	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Bromoform	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Bromomethane	<140	P9	ug/kg dry	140	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
n-Butylbenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
sec-Butylbenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
tert-Butylbenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Chlorobenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Chlorodibromomethane	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Chloroethane	<71	P9	ug/kg dry	71	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Chloroform	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Chloromethane	<71	P9	ug/kg dry	71	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
2-Chlorotoluene	<71	P9	ug/kg dry	71	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
4-Chlorotoluene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<71	P9	ug/kg dry	71	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Dibromomethane	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,3-Dichlorobenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<71	P9	ug/kg dry	71	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
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 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-14 (MB-SB-14@2.5-4' - Soil) - cont.						Sampled: 10/28/10 14:00			
VOCs by SW8260B - cont.									
2,3-Dichloropropene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Isopropyl Ether	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Ethylbenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<50	P9	ug/kg dry	50	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Isopropylbenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Methylene Chloride	<71	P9	ug/kg dry	71	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Naphthalene	380	P9	ug/kg dry	71	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
n-Propylbenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Styrene	<71	P9	ug/kg dry	71	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,1,2,2-Tetrachloroethane	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Tetrachloroethene	90	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Toluene	160	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<50	P9	ug/kg dry	50	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Trichloroethene	200	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<36	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<71	P9	ug/kg dry	71	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	210	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	70	P9	ug/kg dry	36	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Vinyl chloride	<50	P9	ug/kg dry	50	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
Xylenes, total	530	P9	ug/kg dry	120	1.3	11/08/10 16:20	LCK	10K0231	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>102 %</i>	<i>P9</i>							
<i>Surr: Toluene-d8 (80-120%)</i>	<i>97 %</i>	<i>P9</i>							
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>101 %</i>	<i>P9</i>							

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0162
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-15 (MB-SB-14@2.5-4' - Soil)						Sampled: 10/28/10 14:05			
General Chemistry Parameters									
% Solids	92		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
Metals									
Aluminum	5600		mg/kg dry	2.8	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Antimony	2.3	B	mg/kg dry	0.055	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Arsenic	5.8		mg/kg dry	2.8	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Barium	31		mg/kg dry	0.12	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Beryllium	0.25		mg/kg dry	0.012	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Cadmium	0.37		mg/kg dry	0.11	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Calcium	60000	B	mg/kg dry	1.3	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Chromium	11		mg/kg dry	0.20	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Cobalt	3.4		mg/kg dry	0.61	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Copper	21		mg/kg dry	1.8	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Iron	9000		mg/kg dry	1.4	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Lead	32		mg/kg dry	1.3	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Magnesium	34000		mg/kg dry	1.3	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Manganese	190		mg/kg dry	0.089	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Mercury	0.043		mg/kg dry	0.011	1.0	11/08/10 11:22	jej	10K0170	SW 7471A
Nickel	8.2		mg/kg dry	0.39	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Potassium	620		mg/kg dry	1.9	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Selenium	6.0		mg/kg dry	4.4	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Silver	0.16		mg/kg dry	0.12	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Sodium	290		mg/kg dry	0.97	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Thallium	4.0	B	mg/kg dry	3.5	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Vanadium	20		mg/kg dry	0.14	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Zinc	49		mg/kg dry	0.27	1.0	12/02/10 17:24	mmm	10K0243	SW 6010B
Sample ID: WTK0162-16 (MB-SB-14@6-7.5' - Soil)						Sampled: 10/28/10 14:25			
General Chemistry Parameters									
% Solids	84		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Bromochloromethane	<41		ug/kg dry	41	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Bromoform	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Bromomethane	<120		ug/kg dry	120	1	11/08/10 16:47	LCK	10K0231	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Chloroethane	<59		ug/kg dry	59	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Chloroform	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Chloromethane	<59		ug/kg dry	59	1	11/08/10 16:47	LCK	10K0231	SW 8260B
2-Chlorotoluene	<59		ug/kg dry	59	1	11/08/10 16:47	LCK	10K0231	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<59		ug/kg dry	59	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-16 (MB-SB-14@6-7.5' - Soil) - cont.						Sampled: 10/28/10 14:25			
VOCs by SW8260B - cont.									
1,3-Dichlorobenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<59		ug/kg dry	59	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<41		ug/kg dry	41	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Methylene Chloride	<59		ug/kg dry	59	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Naphthalene	<59		ug/kg dry	59	1	11/08/10 16:47	LCK	10K0231	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Styrene	<59		ug/kg dry	59	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Tetrachloroethene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Toluene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<41		ug/kg dry	41	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Trichloroethene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<59		ug/kg dry	59	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<30		ug/kg dry	30	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Vinyl chloride	<41		ug/kg dry	41	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1	11/08/10 16:47	LCK	10K0231	SW 8260B
Surr: Dibromofluoromethane (80-120%)	102 %								
Surr: Toluene-d8 (80-120%)	97 %								
Surr: 4-Bromofluorobenzene (80-120%)	101 %								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-17 (MB-SB-15@2-4' - Soil)						Sampled: 10/28/10 14:35			
General Chemistry Parameters									
% Solids	89		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
VOCs by SW8260B									
Benzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Bromobenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Bromochloromethane	<43		ug/kg dry	43	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Bromodichloromethane	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Bromoform	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Bromomethane	<120		ug/kg dry	120	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
n-Butylbenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
sec-Butylbenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
tert-Butylbenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Chlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Chlorodibromomethane	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Chloroethane	<62		ug/kg dry	62	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Chloroform	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Chloromethane	<62		ug/kg dry	62	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
2-Chlorotoluene	<62		ug/kg dry	62	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
4-Chlorotoluene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<62		ug/kg dry	62	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Dibromomethane	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,3-Dichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<62		ug/kg dry	62	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Isopropyl Ether	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Ethylbenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<43		ug/kg dry	43	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Isopropylbenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Methylene Chloride	<62		ug/kg dry	62	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Naphthalene	<62		ug/kg dry	62	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
n-Propylbenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Styrene	<62		ug/kg dry	62	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,1,2,2-Tetrachloroethane	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Tetrachloroethene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B

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Work Order: WTK0162
Project: Former Mirro Plant
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Received: 11/03/10
Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-17 (MB-SB-15@2-4' - Soil) - cont.						Sampled: 10/28/10 14:35			
VOCs by SW8260B - cont.									
Toluene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<43		ug/kg dry	43	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Trichloroethene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<62		ug/kg dry	62	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<31		ug/kg dry	31	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Vinyl chloride	<43		ug/kg dry	43	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1.1	11/08/10 17:14	LCK	10K0231	SW 8260B
Surr: Dibromofluoromethane (80-120%)	102 %								
Surr: Toluene-d8 (80-120%)	98 %								
Surr: 4-Bromofluorobenzene (80-120%)	101 %								

Sample ID: WTK0162-18 (MB-SB-15@2-4' - Soil)						Sampled: 10/28/10 14:40			
General Chemistry Parameters									
% Solids	89		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
Metals									
Aluminum	4000		mg/kg dry	2.7	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Antimony	1.6	B	mg/kg dry	0.054	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Arsenic	5.0		mg/kg dry	2.7	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Barium	14		mg/kg dry	0.12	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Beryllium	0.15		mg/kg dry	0.012	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Cadmium	0.17		mg/kg dry	0.11	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Calcium	77000	B	mg/kg dry	1.3	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Chromium	9.3		mg/kg dry	0.19	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Cobalt	3.8		mg/kg dry	0.60	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Copper	9.8		mg/kg dry	1.7	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Iron	7500		mg/kg dry	1.4	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Lead	6.5		mg/kg dry	1.3	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Magnesium	48000		mg/kg dry	1.3	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Manganese	210		mg/kg dry	0.087	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Mercury	0.017		mg/kg dry	0.011	1	11/08/10 11:24	jej	10K0170	SW 7471A
Nickel	6.9		mg/kg dry	0.38	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Potassium	710		mg/kg dry	1.8	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Selenium	<4.3		mg/kg dry	4.3	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Silver	0.13		mg/kg dry	0.12	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Sodium	300		mg/kg dry	0.95	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Thallium	6.8	B	mg/kg dry	3.5	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Vanadium	16		mg/kg dry	0.14	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B
Zinc	14		mg/kg dry	0.26	1.0	12/02/10 17:28	mmm	10K0243	SW 6010B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-19 (MB-SB-15@5.6-6' - Soil)						Sampled: 10/28/10 14:45			
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Bromochloromethane	<43		ug/kg dry	43	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Bromoform	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Bromomethane	<120		ug/kg dry	120	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Chloroethane	<61		ug/kg dry	61	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Chloroform	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Chloromethane	<61		ug/kg dry	61	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
2-Chlorotoluene	<61		ug/kg dry	61	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<61		ug/kg dry	61	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,3-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<61		ug/kg dry	61	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
2,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<43		ug/kg dry	43	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Methylene Chloride	<61		ug/kg dry	61	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Naphthalene	<61		ug/kg dry	61	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Styrene	<61		ug/kg dry	61	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Tetrachloroethene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-19 (MB-SB-15@5.6-6' - Soil) - cont.						Sampled: 10/28/10 14:45			
VOCs by SW8260B - cont.									
Toluene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<43		ug/kg dry	43	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Trichloroethene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<61		ug/kg dry	61	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<30		ug/kg dry	30	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Vinyl chloride	<43		ug/kg dry	43	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1.1	11/08/10 17:41	LCK	10K0231	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	99 %								
<i>Surr: Toluene-d8 (80-120%)</i>	99 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	101 %								
Sample ID: WTK0162-20 (MB-SB-8@6.5-8' - Soil)						Sampled: 10/28/10 16:00			
General Chemistry Parameters									
% Solids	89		%	NA	1	11/05/10 09:20	kjk	10K0163	SM 2540G
VOCs by SW8260B									
Benzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Bromobenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Bromochloromethane	<43		ug/kg dry	43	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Bromodichloromethane	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Bromoform	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Bromomethane	<120		ug/kg dry	120	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
n-Butylbenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
sec-Butylbenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
tert-Butylbenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Carbon Tetrachloride	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Chlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Chlorodibromomethane	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Chloroethane	<62		ug/kg dry	62	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Chloroform	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Chloromethane	<62		ug/kg dry	62	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
2-Chlorotoluene	<62		ug/kg dry	62	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
4-Chlorotoluene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,2-Dibromo-3-chloropropane	<62		ug/kg dry	62	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,2-Dibromoethane (EDB)	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Dibromomethane	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,2-Dichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,3-Dichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,4-Dichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Dichlorodifluoromethane	<62		ug/kg dry	62	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,1-Dichloroethane	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,2-Dichloroethane	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,1-Dichloroethene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
cis-1,2-Dichloroethene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
trans-1,2-Dichloroethene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,2-Dichloropropane	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,3-Dichloropropane	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-20 (MB-SB-8@6.5-8' - Soil) - cont.						Sampled: 10/28/10 16:00			
VOCs by SW8260B - cont.									
2,2-Dichloropropane	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,1-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
cis-1,3-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
trans-1,3-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
2,3-Dichloropropene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Isopropyl Ether	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Ethylbenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Hexachlorobutadiene	<43		ug/kg dry	43	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Isopropylbenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
p-Isopropyltoluene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Methylene Chloride	<62		ug/kg dry	62	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Methyl tert-Butyl Ether	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Naphthalene	<62		ug/kg dry	62	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
n-Propylbenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Styrene	<62		ug/kg dry	62	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,1,1,2-Tetrachloroethane	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,1,2,2-Tetrachloroethane	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Tetrachloroethene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Toluene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,2,3-Trichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,2,4-Trichlorobenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,1,1-Trichloroethane	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,1,2-Trichloroethane	<43		ug/kg dry	43	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Trichloroethene	47		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Trichlorofluoromethane	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,2,3-Trichloropropane	<62		ug/kg dry	62	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,2,4-Trimethylbenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
1,3,5-Trimethylbenzene	<31		ug/kg dry	31	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Vinyl chloride	<43		ug/kg dry	43	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1.1	11/08/10 18:08	LCK	10K0231	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>109 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>95 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>103 %</i>								

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0162
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-21 (MB-SB-8@6.5-8' DUP - Soil)						Sampled: 10/28/10 16:05			
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 10:55	kjk	10K0163	SM 2540G
PNAs by SW8310									
Acenaphthene	<56		ug/kg dry	56	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Acenaphthylene	<95		ug/kg dry	95	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Anthracene	56		ug/kg dry	5.6	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Benzo (a) anthracene	240		ug/kg dry	5.6	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	170		ug/kg dry	5.6	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	67		ug/kg dry	5.6	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Benzo (a) pyrene	170		ug/kg dry	5.6	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	150		ug/kg dry	5.6	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Chrysene	220		ug/kg dry	5.6	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	100		ug/kg dry	8.4	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Fluoranthene	540		ug/kg dry	11	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Fluorene	23		ug/kg dry	11	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	130		ug/kg dry	5.6	1	11/15/10 11:37	CLJ	10K0272	SW 8310
1-Methylnaphthalene	<34		ug/kg dry	34	1	11/15/10 11:37	CLJ	10K0272	SW 8310
2-Methylnaphthalene	170		ug/kg dry	34	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Naphthalene	84		ug/kg dry	34	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Phenanthrene	230		ug/kg dry	5.6	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Pyrene	690		ug/kg dry	5.6	1	11/15/10 11:37	CLJ	10K0272	SW 8310
Surr: 2-Fluorobiphenyl (61-128%)	103 %								

Sample ID: WTK0162-22 (MB-SB-8@6.5-8' - Soil)						Sampled: 10/28/10 16:05			
General Chemistry Parameters									
% Solids	88		%	NA	1	11/05/10 09:18	kjk	10K0161	SM 2540G
PNAs by SW8310									
Acenaphthene	<57		ug/kg dry	57	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Acenaphthylene	<97		ug/kg dry	97	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Anthracene	41		ug/kg dry	5.7	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Benzo (a) anthracene	160		ug/kg dry	5.7	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	140		ug/kg dry	5.7	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	45		ug/kg dry	5.7	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Benzo (a) pyrene	110		ug/kg dry	5.7	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	110		ug/kg dry	5.7	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Chrysene	150		ug/kg dry	5.7	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	58		ug/kg dry	8.5	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Fluoranthene	640		ug/kg dry	11	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Fluorene	20		ug/kg dry	11	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	95		ug/kg dry	5.7	1	11/15/10 12:03	CLJ	10K0272	SW 8310
1-Methylnaphthalene	<34		ug/kg dry	34	1	11/15/10 12:03	CLJ	10K0272	SW 8310
2-Methylnaphthalene	130		ug/kg dry	34	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Naphthalene	68		ug/kg dry	34	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Phenanthrene	180		ug/kg dry	5.7	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Pyrene	540		ug/kg dry	5.7	1	11/15/10 12:03	CLJ	10K0272	SW 8310
Surr: 2-Fluorobiphenyl (61-128%)	109 %								

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 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-23 (MB-SB-8@9.5-12' - Soil)						Sampled: 10/28/10 16:05			
General Chemistry Parameters									
% Solids	88		%	NA	1	11/05/10 09:18	kjk	10K0161	SM 2540G
VOCs by SW8260B									
Benzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Bromobenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Bromochloromethane	<40		ug/kg dry	40	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Bromodichloromethane	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Bromoform	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Bromomethane	<110		ug/kg dry	110	1	11/09/10 12:06	LCK	10K0256	SW 8260B
n-Butylbenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
sec-Butylbenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
tert-Butylbenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Chlorobenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Chlorodibromomethane	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Chloroethane	<57		ug/kg dry	57	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Chloroform	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Chloromethane	<57		ug/kg dry	57	1	11/09/10 12:06	LCK	10K0256	SW 8260B
2-Chlorotoluene	<57		ug/kg dry	57	1	11/09/10 12:06	LCK	10K0256	SW 8260B
4-Chlorotoluene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<57		ug/kg dry	57	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Dibromomethane	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<57		ug/kg dry	57	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Isopropyl Ether	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Ethylbenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<40		ug/kg dry	40	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Isopropylbenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Methylene Chloride	<57		ug/kg dry	57	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Naphthalene	<57		ug/kg dry	57	1	11/09/10 12:06	LCK	10K0256	SW 8260B
n-Propylbenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Styrene	<57		ug/kg dry	57	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,1,1,2,2-Tetrachloroethane	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Tetrachloroethene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B

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 Project: Former Mirro Plant
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 Reported: 12/03/10 15:35

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0162-23 (MB-SB-8@9.5-12' - Soil) - cont.						Sampled: 10/28/10 16:05			
VOCs by SW8260B - cont.									
Toluene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<40		ug/kg dry	40	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Trichloroethene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<57		ug/kg dry	57	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<28		ug/kg dry	28	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Vinyl chloride	<40		ug/kg dry	40	1	11/09/10 12:06	LCK	10K0256	SW 8260B
Xylenes, total	<97		ug/kg dry	97	1	11/09/10 12:06	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>107 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>97 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>103 %</i>								

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Reported: 12/03/10 15:35

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
BNAs by SW8270C							
n/a		WTK0162-21					
n/a		WTK0162-22					
PNAs by SW8310							
SW 8310	10K0272	WTK0162-21	10	2	11/09/10 10:39	TLH	SW 3546
SW 8310	10K0272	WTK0162-22	10	2	11/09/10 10:39	TLH	SW 3546
Polychlorinated Biphenyls by EPA Method 8082							
n/a		WTK0162-13					
SW 8082	10K0308	WTK0162-13	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Metals														
Mercury	10K0170			mg/kg wet	N/A	0.010	<0.010							
Aluminum	10K0243			mg/kg wet	N/A	2.5	<2.5							
Antimony	10K0243			mg/kg wet	N/A	0.050	0.397							
Arsenic	10K0243			mg/kg wet	N/A	2.5	<2.5							
Barium	10K0243			mg/kg wet	N/A	0.11	<0.11							
Beryllium	10K0243			mg/kg wet	N/A	0.011	<0.011							
Cadmium	10K0243			mg/kg wet	N/A	0.10	<0.10							
Calcium	10K0243			mg/kg wet	N/A	1.2	1.95							
Chromium	10K0243			mg/kg wet	N/A	0.18	<0.18							
Cobalt	10K0243			mg/kg wet	N/A	0.55	<0.55							
Copper	10K0243			mg/kg wet	N/A	1.6	<1.6							
Iron	10K0243			mg/kg wet	N/A	1.3	<1.3							
Lead	10K0243			mg/kg wet	N/A	1.2	<1.2							
Magnesium	10K0243			mg/kg wet	N/A	1.2	<1.2							
Manganese	10K0243			mg/kg wet	N/A	0.080	<0.080							
Nickel	10K0243			mg/kg wet	N/A	0.35	<0.35							
Potassium	10K0243			mg/kg wet	N/A	1.7	<1.7							
Selenium	10K0243			mg/kg wet	N/A	4.0	<4.0							
Silver	10K0243			mg/kg wet	N/A	0.11	<0.11							
Sodium	10K0243			mg/kg wet	N/A	0.88	<0.88							
Thallium	10K0243			mg/kg wet	N/A	3.2	3.53							
Vanadium	10K0243			mg/kg wet	N/A	0.13	<0.13							
Zinc	10K0243			mg/kg wet	N/A	0.24	<0.24							
Polychlorinated Biphenyls by EPA Method 8082														
PCB-1016	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1221	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1232	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1242	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1248	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1254	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1260	10K0308			mg/kg wet	N/A	0.025	<0.025							
Surrogate: Decachlorobiphenyl	10K0308			mg/kg wet						100		10-177		
Surrogate: Tetrachloro-meta-xylene	10K0308			mg/kg wet						116		11-150		
VOCs by SW8260B														
Benzene	10K0231			ug/kg wet	N/A	25	<25							
Bromobenzene	10K0231			ug/kg wet	N/A	25	<25							
Bromochloromethane	10K0231			ug/kg wet	N/A	35	<35							
Bromodichloromethane	10K0231			ug/kg wet	N/A	25	<25							
Bromoform	10K0231			ug/kg wet	N/A	25	<25							
Bromomethane	10K0231			ug/kg wet	N/A	100	<100							
n-Butylbenzene	10K0231			ug/kg wet	N/A	25	<25							
sec-Butylbenzene	10K0231			ug/kg wet	N/A	25	<25							
tert-Butylbenzene	10K0231			ug/kg wet	N/A	25	<25							
Carbon Tetrachloride	10K0231			ug/kg wet	N/A	25	<25							

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
Chlorobenzene	10K0231			ug/kg wet	N/A	25	<25							
Chlorodibromomethane	10K0231			ug/kg wet	N/A	25	<25							
Chloroethane	10K0231			ug/kg wet	N/A	50	<50							
Chloroform	10K0231			ug/kg wet	N/A	25	<25							
Chloromethane	10K0231			ug/kg wet	N/A	50	<50							
2-Chlorotoluene	10K0231			ug/kg wet	N/A	50	<50							
4-Chlorotoluene	10K0231			ug/kg wet	N/A	25	<25							
1,2-Dibromo-3-chloropropane	10K0231			ug/kg wet	N/A	50	<50							
1,2-Dibromoethane (EDB)	10K0231			ug/kg wet	N/A	25	<25							
Dibromomethane	10K0231			ug/kg wet	N/A	25	<25							
1,2-Dichlorobenzene	10K0231			ug/kg wet	N/A	25	<25							
1,3-Dichlorobenzene	10K0231			ug/kg wet	N/A	25	<25							
1,4-Dichlorobenzene	10K0231			ug/kg wet	N/A	25	<25							
Dichlorodifluoromethane	10K0231			ug/kg wet	N/A	50	<50							
1,1-Dichloroethane	10K0231			ug/kg wet	N/A	25	<25							
1,2-Dichloroethane	10K0231			ug/kg wet	N/A	25	<25							
1,1-Dichloroethene	10K0231			ug/kg wet	N/A	25	<25							
cis-1,2-Dichloroethene	10K0231			ug/kg wet	N/A	25	<25							
trans-1,2-Dichloroethene	10K0231			ug/kg wet	N/A	25	<25							
1,2-Dichloropropane	10K0231			ug/kg wet	N/A	25	<25							
1,3-Dichloropropane	10K0231			ug/kg wet	N/A	25	<25							
2,2-Dichloropropane	10K0231			ug/kg wet	N/A	25	<25							
1,1-Dichloropropene	10K0231			ug/kg wet	N/A	25	<25							
cis-1,3-Dichloropropene	10K0231			ug/kg wet	N/A	25	<25							
trans-1,3-Dichloropropene	10K0231			ug/kg wet	N/A	25	<25							
2,3-Dichloropropene	10K0231			ug/kg wet	N/A	25	<25							
Isopropyl Ether	10K0231			ug/kg wet	N/A	25	<25							
Ethylbenzene	10K0231			ug/kg wet	N/A	25	<25							
Hexachlorobutadiene	10K0231			ug/kg wet	N/A	35	<35							
Isopropylbenzene	10K0231			ug/kg wet	N/A	25	<25							
p-Isopropyltoluene	10K0231			ug/kg wet	N/A	25	<25							
Methylene Chloride	10K0231			ug/kg wet	N/A	50	<50							
Methyl tert-Butyl Ether	10K0231			ug/kg wet	N/A	25	<25							
Naphthalene	10K0231			ug/kg wet	N/A	50	<50							
n-Propylbenzene	10K0231			ug/kg wet	N/A	25	<25							
Styrene	10K0231			ug/kg wet	N/A	50	<50							
1,1,1,2-Tetrachloroethane	10K0231			ug/kg wet	N/A	25	<25							
1,1,2,2-Tetrachloroethane	10K0231			ug/kg wet	N/A	25	<25							
Tetrachloroethene	10K0231			ug/kg wet	N/A	25	<25							
Toluene	10K0231			ug/kg wet	N/A	25	<25							
1,2,3-Trichlorobenzene	10K0231			ug/kg wet	N/A	25	<25							
1,2,4-Trichlorobenzene	10K0231			ug/kg wet	N/A	25	<25							
1,1,1-Trichloroethane	10K0231			ug/kg wet	N/A	25	<25							
1,1,2-Trichloroethane	10K0231			ug/kg wet	N/A	35	<35							
Trichloroethene	10K0231			ug/kg wet	N/A	25	<25							

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 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

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 Reported: 12/03/10 15:35

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
Trichlorofluoromethane	10K0231			ug/kg wet	N/A	25	<25							
1,2,3-Trichloropropane	10K0231			ug/kg wet	N/A	50	<50							
1,2,4-Trimethylbenzene	10K0231			ug/kg wet	N/A	25	<25							
1,3,5-Trimethylbenzene	10K0231			ug/kg wet	N/A	25	<25							
Vinyl chloride	10K0231			ug/kg wet	N/A	35	<35							
Xylenes, total	10K0231			ug/kg wet	N/A	85	<85							
Surrogate: Dibromofluoromethane	10K0231			ug/kg wet						106		80-120		
Surrogate: Toluene-d8	10K0231			ug/kg wet						96		80-120		
Surrogate: 4-Bromofluorobenzene	10K0231			ug/kg wet						102		80-120		
Pentafluorobenzene	10K0231		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
1,4-Difluorobenzene	10K0231		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
Chlorobenzene-d5	10K0231		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
1,4-Dichlorobenzene-d4	10K0231		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
Benzene	10K0256			ug/kg wet	N/A	25	<25							
Bromobenzene	10K0256			ug/kg wet	N/A	25	<25							
Bromochloromethane	10K0256			ug/kg wet	N/A	35	<35							
Bromodichloromethane	10K0256			ug/kg wet	N/A	25	<25							
Bromoform	10K0256			ug/kg wet	N/A	25	<25							
Bromomethane	10K0256			ug/kg wet	N/A	100	<100							
n-Butylbenzene	10K0256			ug/kg wet	N/A	25	<25							
sec-Butylbenzene	10K0256			ug/kg wet	N/A	25	<25							
tert-Butylbenzene	10K0256			ug/kg wet	N/A	25	<25							
Carbon Tetrachloride	10K0256			ug/kg wet	N/A	25	<25							
Chlorobenzene	10K0256			ug/kg wet	N/A	25	<25							
Chlorodibromomethane	10K0256			ug/kg wet	N/A	25	<25							
Chloroethane	10K0256			ug/kg wet	N/A	50	<50							
Chloroform	10K0256			ug/kg wet	N/A	25	<25							
Chloromethane	10K0256			ug/kg wet	N/A	50	<50							
2-Chlorotoluene	10K0256			ug/kg wet	N/A	50	<50							
4-Chlorotoluene	10K0256			ug/kg wet	N/A	25	<25							
1,2-Dibromo-3-chloropropane	10K0256			ug/kg wet	N/A	50	<50							
1,2-Dibromoethane (EDB)	10K0256			ug/kg wet	N/A	25	<25							
Dibromomethane	10K0256			ug/kg wet	N/A	25	<25							
1,2-Dichlorobenzene	10K0256			ug/kg wet	N/A	25	<25							
1,3-Dichlorobenzene	10K0256			ug/kg wet	N/A	25	<25							
1,4-Dichlorobenzene	10K0256			ug/kg wet	N/A	25	<25							
Dichlorodifluoromethane	10K0256			ug/kg wet	N/A	50	<50							
1,1-Dichloroethane	10K0256			ug/kg wet	N/A	25	<25							
1,2-Dichloroethane	10K0256			ug/kg wet	N/A	25	<25							
1,1-Dichloroethene	10K0256			ug/kg wet	N/A	25	<25							
cis-1,2-Dichloroethene	10K0256			ug/kg wet	N/A	25	<25							
trans-1,2-Dichloroethene	10K0256			ug/kg wet	N/A	25	<25							
1,2-Dichloropropane	10K0256			ug/kg wet	N/A	25	<25							
1,3-Dichloropropane	10K0256			ug/kg wet	N/A	25	<25							

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
2,2-Dichloropropane	10K0256			ug/kg wet	N/A	25	<25							
1,1-Dichloropropene	10K0256			ug/kg wet	N/A	25	<25							
cis-1,3-Dichloropropene	10K0256			ug/kg wet	N/A	25	<25							
trans-1,3-Dichloropropene	10K0256			ug/kg wet	N/A	25	<25							
2,3-Dichloropropene	10K0256			ug/kg wet	N/A	25	<25							
Isopropyl Ether	10K0256			ug/kg wet	N/A	25	<25							
Ethylbenzene	10K0256			ug/kg wet	N/A	25	<25							
Hexachlorobutadiene	10K0256			ug/kg wet	N/A	35	<35							
Isopropylbenzene	10K0256			ug/kg wet	N/A	25	<25							
p-Isopropyltoluene	10K0256			ug/kg wet	N/A	25	<25							
Methylene Chloride	10K0256			ug/kg wet	N/A	50	<50							
Methyl tert-Butyl Ether	10K0256			ug/kg wet	N/A	25	<25							
Naphthalene	10K0256			ug/kg wet	N/A	50	<50							
n-Propylbenzene	10K0256			ug/kg wet	N/A	25	<25							
Styrene	10K0256			ug/kg wet	N/A	50	<50							
1,1,1,2-Tetrachloroethane	10K0256			ug/kg wet	N/A	25	<25							
1,1,2,2-Tetrachloroethane	10K0256			ug/kg wet	N/A	25	<25							
Tetrachloroethene	10K0256			ug/kg wet	N/A	25	<25							
Toluene	10K0256			ug/kg wet	N/A	25	<25							
1,2,3-Trichlorobenzene	10K0256			ug/kg wet	N/A	25	<25							
1,2,4-Trichlorobenzene	10K0256			ug/kg wet	N/A	25	<25							
1,1,1-Trichloroethane	10K0256			ug/kg wet	N/A	25	<25							
1,1,2-Trichloroethane	10K0256			ug/kg wet	N/A	35	<35							
Trichloroethene	10K0256			ug/kg wet	N/A	25	<25							
Trichlorofluoromethane	10K0256			ug/kg wet	N/A	25	<25							
1,2,3-Trichloropropane	10K0256			ug/kg wet	N/A	50	<50							
1,2,4-Trimethylbenzene	10K0256			ug/kg wet	N/A	25	<25							
1,3,5-Trimethylbenzene	10K0256			ug/kg wet	N/A	25	<25							
Vinyl chloride	10K0256			ug/kg wet	N/A	35	<35							
Xylenes, total	10K0256			ug/kg wet	N/A	85	<85							
Surrogate: Dibromofluoromethane	10K0256			ug/kg wet					102		80-120			
Surrogate: Toluene-d8	10K0256			ug/kg wet					99		80-120			
Surrogate: 4-Bromofluorobenzene	10K0256			ug/kg wet					103		80-120			
Pentafluorobenzene	10K0256		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
1,4-Difluorobenzene	10K0256		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
Chlorobenzene-d5	10K0256		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
1,4-Dichlorobenzene-d4	10K0256		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
PNAs by SW8310														
Acenaphthene	10K0272			ug/kg wet	N/A	50	<50							
Acenaphthylene	10K0272			ug/kg wet	N/A	85	<85							
Anthracene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (a) anthracene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (b) fluoranthene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (k) fluoranthene	10K0272			ug/kg wet	N/A	5.0	<5.0							

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LABORATORY BLANK QC DATA

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PNAs by SW8310														
Benzo (a) pyrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (g,h,i) perylene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Chrysene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Dibenzo (a,h) anthracene	10K0272			ug/kg wet	N/A	7.5	<7.5							
Fluoranthene	10K0272			ug/kg wet	N/A	10	<10							
Fluorene	10K0272			ug/kg wet	N/A	10	<10							
Indeno (1,2,3-cd) pyrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
1-Methylnaphthalene	10K0272			ug/kg wet	N/A	30	<30							
2-Methylnaphthalene	10K0272			ug/kg wet	N/A	30	<30							
Naphthalene	10K0272			ug/kg wet	N/A	30	<30							
Phenanthrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Pyrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Surrogate: 2-Fluorobiphenyl	10K0272			ug/kg wet						83		61-128		

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LABORATORY DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
General Chemistry Parameters													
QC Source Sample: WTK0149-20													
% Solids	10K0161	96.6		%	N/A	N/A	96.9				0	20	
QC Source Sample: WTK0162-01													
% Solids	10K0163	89.5		%	N/A	N/A	89.9				0	20	
QC Source Sample: WTK0162-04													
% Solids	10K0165	86.2		%	N/A	N/A	85.4				1	20	

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LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Metals														
Mercury	10K0170		0.25	mg/kg wet	N/A	0.010	0.241		96		76-133			
Aluminum	10K0243		100	mg/kg wet	N/A	2.5	95.1		95		85-115			
Antimony	10K0243		100	mg/kg wet	N/A	0.050	96.4		96		85-115			B
Arsenic	10K0243		100	mg/kg wet	N/A	2.5	96.4		96		85-115			
Barium	10K0243		50	mg/kg wet	N/A	0.11	47.5		95		85-115			
Beryllium	10K0243		50	mg/kg wet	N/A	0.011	48.9		98		85-115			
Cadmium	10K0243		50	mg/kg wet	N/A	0.10	48.6		97		85-115			
Calcium	10K0243		100	mg/kg wet	N/A	1.2	98.4		98		85-115			B
Chromium	10K0243		50	mg/kg wet	N/A	0.18	49.1		98		85-115			
Cobalt	10K0243		50	mg/kg wet	N/A	0.55	49.7		99		85-115			
Copper	10K0243		100	mg/kg wet	N/A	1.6	98.2		98		85-115			
Iron	10K0243		100	mg/kg wet	N/A	1.3	101		101		85-115			
Lead	10K0243		100	mg/kg wet	N/A	1.2	98.0		98		85-115			
Magnesium	10K0243		100	mg/kg wet	N/A	1.2	99.2		99		85-115			
Manganese	10K0243		50	mg/kg wet	N/A	0.080	49.4		99		85-115			
Nickel	10K0243		100	mg/kg wet	N/A	0.35	97.6		98		85-115			
Potassium	10K0243		200	mg/kg wet	N/A	1.7	189		95		85-115			
Selenium	10K0243		200	mg/kg wet	N/A	4.0	191		96		85-115			
Silver	10K0243		50	mg/kg wet	N/A	0.11	46.9		94		85-115			
Sodium	10K0243		150	mg/kg wet	N/A	0.88	144		96		85-115			
Thallium	10K0243		100	mg/kg wet	N/A	3.2	99.2		99		85-115			B
Vanadium	10K0243		50	mg/kg wet	N/A	0.13	49.5		99		80-120			
Zinc	10K0243		50	mg/kg wet	N/A	0.24	48.4		97		85-115			
Polychlorinated Biphenyls by EPA Method 8082														
PCB-1016	10K0308		0.25	mg/kg wet	N/A	0.025	0.31		122		75-125			
PCB-1221	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1232	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1242	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1248	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1254	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1260	10K0308		0.25	mg/kg wet	N/A	0.025	0.27		107		75-125			
Surrogate: Decachlorobiphenyl	10K0308			mg/kg wet					96		60-150			
Surrogate: Tetrachloro-meta-xylene	10K0308			mg/kg wet					113		60-150			
VOCs by SW8260B														
Benzene	10K0231		2500	ug/kg wet	N/A	N/A	2530		101		80-120		29	
Bromobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2290		92		80-120		20	
Bromochloromethane	10K0231		2500	ug/kg wet	N/A	N/A	2560		102		80-120		20	
Bromodichloromethane	10K0231		2500	ug/kg wet	N/A	N/A	2400		96		80-120		20	
Bromoform	10K0231		2500	ug/kg wet	N/A	N/A	2280		91		80-120		20	
Bromomethane	10K0231		2500	ug/kg wet	N/A	N/A	2470		99		60-140		20	
n-Butylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2450		98		80-120		20	
sec-Butylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2450		98		80-120		20	
tert-Butylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2430		97		80-120		20	
Carbon Tetrachloride	10K0231		2500	ug/kg wet	N/A	N/A	2620		105		60-140		20	
Chlorobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2410		96		80-120		17	
Chlorodibromomethane	10K0231		2500	ug/kg wet	N/A	N/A	2310		92		80-120		20	
Chloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2420		97		60-140		20	

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VOCs by SW8260B													
Chloroform	10K0231		2500	ug/kg wet	N/A	N/A	2580	103		80-120		20	
Chloromethane	10K0231		2500	ug/kg wet	N/A	N/A	2340	94		60-140		20	
2-Chlorotoluene	10K0231		2500	ug/kg wet	N/A	N/A	2380	95		80-120		20	
4-Chlorotoluene	10K0231		2500	ug/kg wet	N/A	N/A	2350	94		80-120		20	
1,2-Dibromo-3-chloropropane	10K0231		2500	ug/kg wet	N/A	N/A	2160	86		60-140		20	
1,2-Dibromoethane (EDB)	10K0231		2500	ug/kg wet	N/A	N/A	2340	94		80-120		20	
Dibromomethane	10K0231		2500	ug/kg wet	N/A	N/A	2480	99		80-120		20	
1,2-Dichlorobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2350	94		80-120		20	
1,3-Dichlorobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2380	95		80-120		20	
1,4-Dichlorobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2360	94		80-120		20	
Dichlorodifluoromethane	10K0231		2500	ug/kg wet	N/A	N/A	2700	108		60-140		20	
1,1-Dichloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2550	102		80-120		20	
1,2-Dichloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2440	97		80-120		20	
1,1-Dichloroethene	10K0231		2500	ug/kg wet	N/A	N/A	2630	105		80-120		44	
cis-1,2-Dichloroethene	10K0231		2500	ug/kg wet	N/A	N/A	2670	107		80-120		20	
trans-1,2-Dichloroethene	10K0231		2500	ug/kg wet	N/A	N/A	2630	105		80-120		20	
1,2-Dichloropropane	10K0231		2500	ug/kg wet	N/A	N/A	2350	94		80-120		20	
1,3-Dichloropropane	10K0231		2500	ug/kg wet	N/A	N/A	2280	91		80-120		20	
2,2-Dichloropropane	10K0231		2500	ug/kg wet	N/A	N/A	2610	104		60-140		20	
1,1-Dichloropropene	10K0231		2500	ug/kg wet	N/A	N/A	2670	107		80-120		20	
cis-1,3-Dichloropropene	10K0231		2500	ug/kg wet	N/A	N/A	2400	96		80-120		20	
trans-1,3-Dichloropropene	10K0231		2500	ug/kg wet	N/A	N/A	2350	94		80-120		20	
Ethylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2420	97		80-120		17	
Hexachlorobutadiene	10K0231		2500	ug/kg wet	N/A	N/A	2460	98		60-140		20	
Isopropylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2450	98		80-120		20	
p-Isopropyltoluene	10K0231		2500	ug/kg wet	N/A	N/A	2460	98		80-120		20	
Methylene Chloride	10K0231		2500	ug/kg wet	N/A	N/A	2580	103		80-120		20	
Methyl tert-Butyl Ether	10K0231		2500	ug/kg wet	N/A	N/A	2530	101		80-120		36	
Naphthalene	10K0231		2500	ug/kg wet	N/A	N/A	2090	84		60-140		20	
n-Propylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2430	97		80-120		20	
Styrene	10K0231		2500	ug/kg wet	N/A	N/A	2390	96		80-120		20	
1,1,1,2-Tetrachloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2350	94		80-120		20	
1,1,2,2-Tetrachloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2190	88		80-120		20	
Tetrachloroethene	10K0231		2500	ug/kg wet	N/A	N/A	2600	104		80-120		20	
Toluene	10K0231		2500	ug/kg wet	N/A	N/A	2440	98		80-120		18	
1,2,3-Trichlorobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2320	93		80-120		20	
1,2,4-Trichlorobenzene	10K0231		2500	ug/kg wet	N/A	N/A	2380	95		80-120		20	
1,1,1-Trichloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2650	106		80-120		20	
1,1,2-Trichloroethane	10K0231		2500	ug/kg wet	N/A	N/A	2330	93		80-120		20	
Trichloroethene	10K0231		2500	ug/kg wet	N/A	N/A	2650	106		80-120		20	
Trichlorofluoromethane	10K0231		2500	ug/kg wet	N/A	N/A	2560	102		80-120		20	
1,2,3-Trichloropropane	10K0231		2500	ug/kg wet	N/A	N/A	2210	88		80-120		20	
1,2,4-Trimethylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2410	96		80-120		20	
1,3,5-Trimethylbenzene	10K0231		2500	ug/kg wet	N/A	N/A	2420	97		80-120		19	
Vinyl chloride	10K0231		2500	ug/kg wet	N/A	N/A	2700	108		80-120		20	

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Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B													
Xylenes, total	10K0231		7500	ug/kg wet	N/A	N/A	7270	97		80-120		17	
Surrogate: Dibromofluoromethane	10K0231			ug/kg wet				104		80-120			
Surrogate: Toluene-d8	10K0231			ug/kg wet				98		80-120			
Surrogate: 4-Bromofluorobenzene	10K0231			ug/kg wet				100		80-120			
Benzene	10K0256		2500	ug/kg wet	N/A	25	2460	99		80-120		29	
Bromobenzene	10K0256		2500	ug/kg wet	N/A	25	2280	91		80-120		20	
Bromochloromethane	10K0256		2500	ug/kg wet	N/A	35	2570	103		80-120		20	
Bromodichloromethane	10K0256		2500	ug/kg wet	N/A	25	2360	94		80-120		20	
Bromoform	10K0256		2500	ug/kg wet	N/A	25	2220	89		80-120		20	
Bromomethane	10K0256		2500	ug/kg wet	N/A	100	2430	97		60-140		20	
n-Butylbenzene	10K0256		2500	ug/kg wet	N/A	25	2390	95		80-120		20	
sec-Butylbenzene	10K0256		2500	ug/kg wet	N/A	25	2370	95		80-120		20	
tert-Butylbenzene	10K0256		2500	ug/kg wet	N/A	25	2360	94		80-120		20	
Carbon Tetrachloride	10K0256		2500	ug/kg wet	N/A	25	2480	99		60-140		20	
Chlorobenzene	10K0256		2500	ug/kg wet	N/A	25	2400	96		80-120		17	
Chlorodibromomethane	10K0256		2500	ug/kg wet	N/A	25	2290	92		80-120		20	
Chloroethane	10K0256		2500	ug/kg wet	N/A	50	2330	93		60-140		20	
Chloroform	10K0256		2500	ug/kg wet	N/A	25	2540	102		80-120		20	
Chloromethane	10K0256		2500	ug/kg wet	N/A	50	2290	92		60-140		20	
2-Chlorotoluene	10K0256		2500	ug/kg wet	N/A	50	2340	94		80-120		20	
4-Chlorotoluene	10K0256		2500	ug/kg wet	N/A	25	2330	93		80-120		20	
1,2-Dibromo-3-chloropropane	10K0256		2500	ug/kg wet	N/A	50	2120	85		60-140		20	
1,2-Dibromoethane (EDB)	10K0256		2500	ug/kg wet	N/A	25	2390	96		80-120		20	
Dibromomethane	10K0256		2500	ug/kg wet	N/A	25	2480	99		80-120		20	
1,2-Dichlorobenzene	10K0256		2500	ug/kg wet	N/A	25	2350	94		80-120		20	
1,3-Dichlorobenzene	10K0256		2500	ug/kg wet	N/A	25	2350	94		80-120		20	
1,4-Dichlorobenzene	10K0256		2500	ug/kg wet	N/A	25	2330	93		80-120		20	
Dichlorodifluoromethane	10K0256		2500	ug/kg wet	N/A	50	2600	104		60-140		20	
1,1-Dichloroethane	10K0256		2500	ug/kg wet	N/A	25	2480	99		80-120		20	
1,2-Dichloroethane	10K0256		2500	ug/kg wet	N/A	25	2410	96		80-120		20	
1,1-Dichloroethene	10K0256		2500	ug/kg wet	N/A	25	2520	101		80-120		44	
cis-1,2-Dichloroethene	10K0256		2500	ug/kg wet	N/A	25	2580	103		80-120		20	
trans-1,2-Dichloroethene	10K0256		2500	ug/kg wet	N/A	25	2520	101		80-120		20	
1,2-Dichloropropane	10K0256		2500	ug/kg wet	N/A	25	2320	93		80-120		20	
1,3-Dichloropropane	10K0256		2500	ug/kg wet	N/A	25	2330	93		80-120		20	
2,2-Dichloropropane	10K0256		2500	ug/kg wet	N/A	25	2510	101		60-140		20	
1,1-Dichloropropene	10K0256		2500	ug/kg wet	N/A	25	2580	103		80-120		20	
cis-1,3-Dichloropropene	10K0256		2500	ug/kg wet	N/A	25	2350	94		80-120		20	
trans-1,3-Dichloropropene	10K0256		2500	ug/kg wet	N/A	25	2340	93		80-120		20	
Ethylbenzene	10K0256		2500	ug/kg wet	N/A	25	2380	95		80-120		17	
Hexachlorobutadiene	10K0256		2500	ug/kg wet	N/A	35	2370	95		60-140		20	
Isopropylbenzene	10K0256		2500	ug/kg wet	N/A	25	2410	97		80-120		20	
p-Isopropyltoluene	10K0256		2500	ug/kg wet	N/A	25	2390	95		80-120		20	
Methylene Chloride	10K0256		2500	ug/kg wet	N/A	50	2550	102		80-120		20	

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LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
Methyl tert-Butyl Ether	10K0256		2500	ug/kg wet	N/A	25	2570		103		80-120		36	
Naphthalene	10K0256		2500	ug/kg wet	N/A	50	2110		84		60-140		20	
n-Propylbenzene	10K0256		2500	ug/kg wet	N/A	25	2380		95		80-120		20	
Styrene	10K0256		2500	ug/kg wet	N/A	50	2390		96		80-120		20	
1,1,1,2-Tetrachloroethane	10K0256		2500	ug/kg wet	N/A	25	2340		93		80-120		20	
1,1,2,2-Tetrachloroethane	10K0256		2500	ug/kg wet	N/A	25	2300		92		80-120		20	
Tetrachloroethene	10K0256		2500	ug/kg wet	N/A	25	2500		100		80-120		20	
Toluene	10K0256		2500	ug/kg wet	N/A	25	2400		96		80-120		18	
1,2,3-Trichlorobenzene	10K0256		2500	ug/kg wet	N/A	25	2320		93		80-120		20	
1,2,4-Trichlorobenzene	10K0256		2500	ug/kg wet	N/A	25	2360		94		80-120		20	
1,1,1-Trichloroethane	10K0256		2500	ug/kg wet	N/A	25	2520		101		80-120		20	
1,1,2-Trichloroethane	10K0256		2500	ug/kg wet	N/A	35	2360		94		80-120		20	
Trichloroethene	10K0256		2500	ug/kg wet	N/A	25	2560		102		80-120		20	
Trichlorofluoromethane	10K0256		2500	ug/kg wet	N/A	25	2460		98		80-120		20	
1,2,3-Trichloropropane	10K0256		2500	ug/kg wet	N/A	50	2270		91		80-120		20	
1,2,4-Trimethylbenzene	10K0256		2500	ug/kg wet	N/A	25	2340		94		80-120		20	
1,3,5-Trimethylbenzene	10K0256		2500	ug/kg wet	N/A	25	2360		95		80-120		19	
Vinyl chloride	10K0256		2500	ug/kg wet	N/A	35	2600		104		80-120		20	
Xylenes, total	10K0256		7500	ug/kg wet	N/A	85	7200		96		80-120		17	
<i>Surrogate: Dibromofluoromethane</i>	<i>10K0256</i>			ug/kg wet					<i>104</i>		<i>80-120</i>			
<i>Surrogate: Toluene-d8</i>	<i>10K0256</i>			ug/kg wet					<i>98</i>		<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>10K0256</i>			ug/kg wet					<i>102</i>		<i>80-120</i>			
PNAs by SW8310														
Acenaphthene	10K0272		1000	ug/kg wet	N/A	50	781		78		72-114			
Acenaphthylene	10K0272		2000	ug/kg wet	N/A	85	1650		83		74-117			
Anthracene	10K0272		100	ug/kg wet	N/A	5.0	81.8		82		67-124			
Benzo (a) anthracene	10K0272		100	ug/kg wet	N/A	5.0	100		100		76-119			
Benzo (b) fluoranthene	10K0272		200	ug/kg wet	N/A	5.0	177		88		87-132			
Benzo (k) fluoranthene	10K0272		100	ug/kg wet	N/A	5.0	95.3		95		86-132			
Benzo (a) pyrene	10K0272		100	ug/kg wet	N/A	5.0	80.5		81		62-125			
Benzo (g,h,i) perylene	10K0272		200	ug/kg wet	N/A	5.0	180		90		80-128			
Chrysene	10K0272		100	ug/kg wet	N/A	5.0	96.9		97		80-121			
Dibenzo (a,h) anthracene	10K0272		200	ug/kg wet	N/A	7.5	233		116		87-128			
Fluoranthene	10K0272		200	ug/kg wet	N/A	10	180		90		78-129			
Fluorene	10K0272		200	ug/kg wet	N/A	10	207		104		64-122			
Indeno (1,2,3-cd) pyrene	10K0272		100	ug/kg wet	N/A	5.0	81.0		81		80-125			
1-Methylnaphthalene	10K0272		1000	ug/kg wet	N/A	30	793		79		72-115			
2-Methylnaphthalene	10K0272		1000	ug/kg wet	N/A	30	755		75		59-114			
Naphthalene	10K0272		1000	ug/kg wet	N/A	30	796		80		72-111			
Phenanthrene	10K0272		100	ug/kg wet	N/A	5.0	87.8		88		78-132			
Pyrene	10K0272		100	ug/kg wet	N/A	5.0	107		107		75-122			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>10K0272</i>			ug/kg wet					<i>90</i>		<i>61-128</i>			

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Metals														
QC Source Sample: WTK0162-04														
Mercury	10K0170	0.0224	0.29	mg/kg dry	N/A	0.012	0.313	0.308	100	98	56-140	2	24	
Polychlorinated Biphenyls by EPA Method 8082														
QC Source Sample: WTK0161-02														
PCB-1016	10K0308	<0.033	0.30	mg/kg dry	N/A	0.030	0.35	0.37	116	122	70-130	5	20	
PCB-1221	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1232	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1242	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1248	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1254	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1260	10K0308	<0.033	0.30	mg/kg dry	N/A	0.030	0.28	0.28	91	93	70-130	1	20	
Surrogate: Decachlorobiphenyl	10K0308			mg/kg dry					83	85	10-177			
Surrogate: Tetrachloro-meta-xylene	10K0308			mg/kg dry					105	111	11-150			
VOCs by SW8260B														
QC Source Sample: WTK0161-01														
Benzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2540	2450	102	98	80-120	4	20	
Bromochloromethane	10K0231	<35	2500	ug/kg dry	N/A	N/A	2690	2590	108	104	80-120	4	20	
Bromodichloromethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2500	2430	100	97	80-120	3	20	
Bromoform	10K0231	<25	2500	ug/kg dry	N/A	N/A	2390	2370	96	95	80-120	1	20	
Bromomethane	10K0231	31.3	2500	ug/kg dry	N/A	N/A	2590	2480	102	98	60-140	5	20	
n-Butylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2420	2350	97	94	80-120	3	20	
sec-Butylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2430	2350	97	94	80-120	3	20	
tert-Butylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2390	2320	96	93	80-120	3	20	
Carbon Tetrachloride	10K0231	<25	2500	ug/kg dry	N/A	N/A	2550	2430	102	97	60-140	5	20	
Chlorobenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2440	2390	98	96	80-120	2	20	
Chlorodibromomethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2420	2400	97	96	80-120	1	20	
Chloroethane	10K0231	<50	2500	ug/kg dry	N/A	N/A	2450	2270	98	91	60-140	7	20	
Chloroform	10K0231	<25	2500	ug/kg dry	N/A	N/A	2620	2530	105	101	80-120	3	20	
Chloromethane	10K0231	<50	2500	ug/kg dry	N/A	N/A	2320	2210	93	88	60-140	5	20	
2-Chlorotoluene	10K0231	<50	2500	ug/kg dry	N/A	N/A	2350	2340	94	94	80-120	1	20	
4-Chlorotoluene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2330	2290	93	92	80-120	1	20	
1,2-Dibromo-3-chloropropane	10K0231	<50	2500	ug/kg dry	N/A	N/A	2310	2180	92	87	60-140	6	20	
1,2-Dibromoethane (EDB)	10K0231	<25	2500	ug/kg dry	N/A	N/A	2450	2390	98	96	80-120	2	20	
Dibromomethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2600	2500	104	100	80-120	4	20	
1,2-Dichlorobenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2370	2360	95	94	80-120	1	20	
1,3-Dichlorobenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2380	2370	95	95	80-120	1	20	
1,4-Dichlorobenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2340	2350	93	94	80-120	1	20	
Dichlorodifluoromethane	10K0231	<50	2500	ug/kg dry	N/A	N/A	2470	2310	99	92	60-140	7	20	
1,1-Dichloroethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2560	2440	102	98	80-120	5	20	
1,2-Dichloroethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2510	2430	100	97	80-120	3	20	
1,1-Dichloroethene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2620	2450	105	98	80-120	6	20	
cis-1,2-Dichloroethene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2680	2610	107	105	80-120	2	20	
trans-1,2-Dichloroethene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2620	2450	105	98	80-120	6	20	
1,2-Dichloropropane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2460	2400	99	96	80-120	3	20	
1,3-Dichloropropane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2380	2330	95	93	80-120	2	20	
2,2-Dichloropropane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2630	2460	105	98	60-140	7	20	
1,1-Dichloropropene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2640	2470	105	99	80-120	6	20	

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Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B													
QC Source Sample: WTK0161-01													
cis-1,3-Dichloropropene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2490	2440	100	98	80-120	2	20
trans-1,3-Dichloropropene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2450	2400	98	96	80-120	2	20
Ethylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2450	2370	98	95	80-120	3	20
Hexachlorobutadiene	10K0231	<35	2500	ug/kg dry	N/A	N/A	2400	2380	96	95	60-140	1	20
Isopropylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2470	2390	99	96	80-120	3	20
p-Isopropyltoluene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2410	2360	96	95	80-120	2	20
Methylene Chloride	10K0231	<50	2500	ug/kg dry	N/A	N/A	2700	2550	108	102	80-120	6	20
Methyl tert-Butyl Ether	10K0231	<25	2500	ug/kg dry	N/A	N/A	2620	2520	105	101	80-120	4	20
Naphthalene	10K0231	<50	2500	ug/kg dry	N/A	N/A	2200	2200	88	88	60-140	0	20
n-Propylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2400	2350	96	94	80-120	2	20
Styrene	10K0231	<50	2500	ug/kg dry	N/A	N/A	2430	2400	97	96	80-120	1	20
1,1,1,2-Tetrachloroethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2380	2420	95	97	80-120	2	20
1,1,2,2-Tetrachloroethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2340	2320	93	93	80-120	1	20
Tetrachloroethene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2540	2450	102	98	80-120	4	20
Toluene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2440	2360	98	94	80-120	3	20
1,2,3-Trichlorobenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2400	2410	96	96	80-120	0	20
1,2,4-Trichlorobenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2400	2410	96	96	80-120	1	20
1,1,1-Trichloroethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2640	2520	106	101	80-120	4	20
1,1,2-Trichloroethane	10K0231	<35	2500	ug/kg dry	N/A	N/A	2430	2360	97	94	80-120	3	20
Trichloroethene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2630	2510	105	100	80-120	5	20
Trichlorofluoromethane	10K0231	<25	2500	ug/kg dry	N/A	N/A	2620	2420	105	97	80-120	8	20
1,2,3-Trichloropropane	10K0231	<50	2500	ug/kg dry	N/A	N/A	2320	2230	93	89	80-120	4	20
1,2,4-Trimethylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2390	2360	96	94	80-120	1	20
1,3,5-Trimethylbenzene	10K0231	<25	2500	ug/kg dry	N/A	N/A	2410	2370	97	95	80-120	2	20
Vinyl chloride	10K0231	<35	2500	ug/kg dry	N/A	N/A	2500	2330	100	93	80-120	7	20
Xylenes, total	10K0231	<85	7500	ug/kg dry	N/A	N/A	7420	7200	99	96	80-120	3	20
Surrogate: Dibromofluoromethane	10K0231			ug/kg dry					107	105	80-120		
Surrogate: Toluene-d8	10K0231			ug/kg dry					98	99	80-120		
Surrogate: 4-Bromofluorobenzene	10K0231			ug/kg dry					102	102	80-120		
QC Source Sample: WTK0162-23													
Benzene	10K0256	<25	2800	ug/kg dry	N/A	28	2830	2870	99	101	80-120	2	20
Bromochloromethane	10K0256	<35	2800	ug/kg dry	N/A	40	2890	3060	102	108	80-120	6	20
Bromodichloromethane	10K0256	<25	2800	ug/kg dry	N/A	28	2680	2780	94	98	80-120	4	20
Bromoform	10K0256	<25	2800	ug/kg dry	N/A	28	2550	2670	90	94	80-120	4	20
Bromomethane	10K0256	<100	2800	ug/kg dry	N/A	110	2870	2900	101	102	60-140	1	20
n-Butylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2780	2670	98	94	80-120	4	20
sec-Butylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2770	2660	97	93	80-120	4	20
tert-Butylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2730	2640	96	93	80-120	3	20
Carbon Tetrachloride	10K0256	<25	2800	ug/kg dry	N/A	28	2830	2770	99	97	60-140	2	20
Chlorobenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2740	2750	96	97	80-120	0	20
Chlorodibromomethane	10K0256	<25	2800	ug/kg dry	N/A	28	2630	2710	92	95	80-120	3	20
Chloroethane	10K0256	<50	2800	ug/kg dry	N/A	57	2670	2670	94	94	60-140	0	20
Chloroform	10K0256	<25	2800	ug/kg dry	N/A	28	2890	2980	102	105	80-120	3	20
Chloromethane	10K0256	<50	2800	ug/kg dry	N/A	57	2550	2580	89	91	60-140	1	20
2-Chlorotoluene	10K0256	<50	2800	ug/kg dry	N/A	57	2730	2610	96	92	80-120	4	20

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
QC Source Sample: WTK0162-23														
4-Chlorotoluene	10K0256	<25	2800	ug/kg dry	N/A	28	2660	2600	94	91	80-120	3	20	
1,2-Dibromo-3-chloropropane	10K0256	<50	2800	ug/kg dry	N/A	57	2460	2540	86	89	60-140	3	20	
1,2-Dibromoethane (EDB)	10K0256	<25	2800	ug/kg dry	N/A	28	2680	2790	94	98	80-120	4	20	
Dibromomethane	10K0256	<25	2800	ug/kg dry	N/A	28	2770	2960	97	104	80-120	7	20	
1,2-Dichlorobenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2700	2680	95	94	80-120	1	20	
1,3-Dichlorobenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2720	2670	96	94	80-120	2	20	
1,4-Dichlorobenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2690	2670	94	94	80-120	1	20	
Dichlorodifluoromethane	10K0256	<50	2800	ug/kg dry	N/A	57	2770	2750	97	97	60-140	1	20	
1,1-Dichloroethane	10K0256	<25	2800	ug/kg dry	N/A	28	2800	2890	98	101	80-120	3	20	
1,2-Dichloroethane	10K0256	<25	2800	ug/kg dry	N/A	28	2680	2890	94	102	80-120	8	20	
1,1-Dichloroethene	10K0256	<25	2800	ug/kg dry	N/A	28	2890	2920	102	103	80-120	1	20	
cis-1,2-Dichloroethene	10K0256	<25	2800	ug/kg dry	N/A	28	2990	3070	105	108	80-120	3	20	
trans-1,2-Dichloroethene	10K0256	<25	2800	ug/kg dry	N/A	28	2890	2920	102	103	80-120	1	20	
1,2-Dichloropropane	10K0256	<25	2800	ug/kg dry	N/A	28	2730	2800	96	98	80-120	2	20	
1,3-Dichloropropane	10K0256	<25	2800	ug/kg dry	N/A	28	2640	2700	93	95	80-120	2	20	
2,2-Dichloropropane	10K0256	<25	2800	ug/kg dry	N/A	28	2840	2910	100	102	60-140	2	20	
1,1-Dichloropropene	10K0256	<25	2800	ug/kg dry	N/A	28	2920	2940	103	103	80-120	1	20	
cis-1,3-Dichloropropene	10K0256	<25	2800	ug/kg dry	N/A	28	2720	2810	96	99	80-120	3	20	
trans-1,3-Dichloropropene	10K0256	<25	2800	ug/kg dry	N/A	28	2630	2750	92	97	80-120	5	20	
Ethylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2740	2720	96	96	80-120	1	20	
Hexachlorobutadiene	10K0256	<35	2800	ug/kg dry	N/A	40	2780	2640	98	93	60-140	5	20	
Isopropylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2770	2730	97	96	80-120	1	20	
p-Isopropyltoluene	10K0256	<25	2800	ug/kg dry	N/A	28	2790	2680	98	94	80-120	4	20	
Methylene Chloride	10K0256	<50	2800	ug/kg dry	N/A	57	2870	3060	101	107	80-120	6	20	
Methyl tert-Butyl Ether	10K0256	<25	2800	ug/kg dry	N/A	28	2790	3040	98	107	80-120	9	20	
Naphthalene	10K0256	<50	2800	ug/kg dry	N/A	57	2450	2510	86	88	60-140	2	20	
n-Propylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2750	2640	97	93	80-120	4	20	
Styrene	10K0256	<50	2800	ug/kg dry	N/A	57	2740	2770	96	97	80-120	1	20	
1,1,1,2-Tetrachloroethane	10K0256	<25	2800	ug/kg dry	N/A	28	2700	2700	95	95	80-120	0	20	
1,1,2,2-Tetrachloroethane	10K0256	<25	2800	ug/kg dry	N/A	28	2600	2580	91	91	80-120	0	20	
Tetrachloroethene	10K0256	<25	2800	ug/kg dry	N/A	28	2890	2840	101	100	80-120	2	20	
Toluene	10K0256	<25	2800	ug/kg dry	N/A	28	2770	2730	97	96	80-120	1	20	
1,2,3-Trichlorobenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2710	2700	95	95	80-120	0	20	
1,2,4-Trichlorobenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2770	2690	97	95	80-120	3	20	
1,1,1-Trichloroethane	10K0256	<25	2800	ug/kg dry	N/A	28	2900	2940	102	103	80-120	1	20	
1,1,2-Trichloroethane	10K0256	<35	2800	ug/kg dry	N/A	40	2680	2760	94	97	80-120	3	20	
Trichloroethene	10K0256	<25	2800	ug/kg dry	N/A	28	2910	2940	102	103	80-120	1	20	
Trichlorofluoromethane	10K0256	<25	2800	ug/kg dry	N/A	28	2880	2880	101	101	80-120	0	20	
1,2,3-Trichloropropane	10K0256	<50	2800	ug/kg dry	N/A	57	2490	2640	88	93	80-120	6	20	
1,2,4-Trimethylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2710	2650	95	93	80-120	2	20	
1,3,5-Trimethylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2750	2690	97	94	80-120	3	20	
Vinyl chloride	10K0256	<35	2800	ug/kg dry	N/A	40	2780	2740	97	96	80-120	1	20	
Xylenes, total	10K0256	<85	8500	ug/kg dry	N/A	97	8300	8260	97	97	80-120	1	20	
Surrogate: Dibromofluoromethane	10K0256			ug/kg dry					104	107	80-120			
Surrogate: Toluene-d8	10K0256			ug/kg dry					99	97	80-120			

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0162
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:35

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
QC Source Sample: WTK0162-23														
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>10K0256</i>			ug/kg dry					<i>101</i>	<i>102</i>	<i>80-120</i>			
PNAs by SW8310														
QC Source Sample: WTK0164-19														
Acenaphthene	10K0272	0.00	1100	ug/kg dry	N/A	55	870		79		62-127			
Acenaphthylene	10K0272	0.00	2200	ug/kg dry	N/A	94	1870		85		68-122			
Anthracene	10K0272	0.00	110	ug/kg dry	N/A	5.5	91.9		83		50-138			
Benzo (a) anthracene	10K0272	0.00	110	ug/kg dry	N/A	5.5	113		102		45-153			
Benzo (b) fluoranthene	10K0272	0.00	220	ug/kg dry	N/A	5.5	197		89		69-149			
Benzo (k) fluoranthene	10K0272	0.00	110	ug/kg dry	N/A	5.5	119		108		66-153			
Benzo (a) pyrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	88.6		80		39-147			
Benzo (g,h,i) perylene	10K0272	0.00	220	ug/kg dry	N/A	5.5	197		89		63-152			
Chrysene	10K0272	0.00	110	ug/kg dry	N/A	5.5	108		97		53-149			
Dibenzo (a,h) anthracene	10K0272	0.00	220	ug/kg dry	N/A	8.3	242		110		81-134			
Fluoranthene	10K0272	0.00	220	ug/kg dry	N/A	11	207		94		62-143			
Fluorene	10K0272	0.00	220	ug/kg dry	N/A	11	226		103		51-133			
Indeno (1,2,3-cd) pyrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	86.7		79		55-151			
1-Methylnaphthalene	10K0272	0.00	1100	ug/kg dry	N/A	33	916		83		64-126			
2-Methylnaphthalene	10K0272	0.00	1100	ug/kg dry	N/A	33	873		79		44-131			
Naphthalene	10K0272	0.00	1100	ug/kg dry	N/A	33	880		80		60-125			
Phenanthrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	99.8		90		57-155			
Pyrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	105		95		47-147			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>10K0272</i>			ug/kg dry					<i>92</i>		<i>55-120</i>			

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0162
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:35

CERTIFICATION SUMMARY

TestAmerica Watertown

Method	Matrix	Nelac	Wisconsin
SM 2540G	Solid/Soil	X	X
SW 6010B	Solid/Soil	X	X
SW 7471A	Solid/Soil	X	X
SW 8082	Solid/Soil	X	X
SW 8260B	Solid/Soil	X	X
SW 8310	Solid/Soil	X	X

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0162
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:35

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- P9** Amount of sample in the container was outside the acceptable range as stated in the method.

ADDITIONAL COMMENTS

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Watertown Division
602 Commerce Drive
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

Client Name: **AECOM**

Client #:

Address: **558 N Main St**
City/State/Zip Code: **Oshkosh, WI 54901**
Project Manager: **Andrew Mott**
Telephone Number: **920 236 6713**
Fax:

Sampler Name: (Print Name) **Heather Cleveland**
Sampler Signature: *Heather Cleveland*
Andrew.Mott@aecom.com
heather.cleveland@aecom.com

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring

Project Name: **Former Miro Plant #9**
Project #: **60163491**
Site/Location ID: **Manitowoc** State: **WI**
Report To: **Andrew Mott / Mike Bingham**
Invoice To: **Mike Bingham/AES**
Quote #: _____ PO#: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix Preservation & # of Containers						Analyze For:	QC Deliverables	REMARKS	
					SL - Sludge DW - Drinking Water	GW - Groundwater S - Soil/Solid	WW - Wastewater Specify Other	HNO ₃	HCl	NaOH				H ₂ SO ₄
01 MB-SB-12025-4 DUP	12/20/10	1105	6	N	5	2	2	2	2	2	2	PAH, VOC, PCB, TBA	Level 2 (Batch QC)	
02 MB-SB-12025-4		1110											Level 2 (Batch QC)	only
03 MB-SB-12025-4		1145											Level 2 (Batch QC)	
04 MB-SB-12025-4		1150											Level 2 (Batch QC)	
05 MB-SB-12025-4 MS/MSD		1150											Level 2 (Batch QC)	
06 MB-SB-MW-19022-4		1300											Level 2 (Batch QC)	
07 MB-SB-MW-19022-4 DUP		1300											Level 2 (Batch QC)	
08 MB-SB-MW-19055-8		1305											Level 2 (Batch QC)	only
09 MB-SB-MW-19055-8 DUP		1310											Level 2 (Batch QC)	only

Special Instructions: **Supply data package in accordance with the Former Miro Plant #9 QARC & RAPP**

Relinquished By: *Heather Cleveland* Date: **12/21** Time: **1400** Received By: *[Signature]* Date: **12/13/10** Time: **1100**

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

LABORATORY COMMENTS:
Init Lab Temp: _____ Rec Lab Temp: _____
Custody Seals: **Y** N N/A
Bottles Supplied by TestAmerica: **N**
Method of Shipment: **FedEx**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Watertown Division
602 Commerce Drive
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

E-mail address: _____

Client Name: _____

Address: _____

City/State/Zip Code: _____

Project Manager: _____

Telephone Number: _____

Sampler Name: (Print Name) Heather Cleveland

Sampler Signature: [Signature]

Project Name: former Hino Plant #9

Project #: _____

Site/Location ID: see prev. page State: _____

Report To: _____

Invoice To: _____

Quote #: _____ PO#: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Preservation & # of Containers							Analyze For:	QC Deliverables	REMARKS		
					Matrix	HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	Other (Specify)					
10 MB-SB-MN-19055-8'	10/24/10	1315	G	N	SL - Sludge DW - Drinking Water						1					
11 MB-SB-13015-2'		1330			GW - Groundwater S - Soil/Solid						2					
12 MB-SB-13015-2'		1335			WW - Wastewater						1					
13 MB-SB-13015-2'		1338			Other (Specify)						1					
14 MB-SB-14025-4'		1400									2					only 1
15 MB-SB-14025-4'		1705									2					only 1
16 MB-SB-14067.5'		1425									2					
17 MB-SB-1502-4'		1425									2					
18 MB-SB-1507-4'		1440									2					
19 MB-SB-15056.6'		1445									2					

Special Instructions: see prev. page

Relinquished By: [Signature] Date: 11/2/10 Time: 1400 Received By: [Signature] Date: 11/3/10 Time: 1724

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

LABORATORY COMMENTS:

Init Lab Temp: _____ Rec Lab Temp: _____

Custody Seals: Y/N N/A

Bottles Supplied by TestAmerica: N

Method of Shipment: FEDEX

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Watertown Division
 602 Commerce Drive
 Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036
 Fax 920-261-8120

To assist us in using the proper analytical methods,
 is this work being conducted for regulatory purposes?
 Compliance Monitoring

E-mail address: _____ Client #: _____
 Address: _____
 City/State/Zip Code: _____
 Project Manager: _____
 Telephone Number: _____
 Sampler Name: (Print Name) Heather Cleveland
 Sampler Signature: [Signature]
 Project Name: Former King Plant #9
 Project #: _____ State: _____
 Site/Location ID: _____
 Report To: see prev. page
 Invoice To: _____
 Quote #: _____ PO#: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix Preservation & # of Containers						Analyze For:	QC Deliverables	REMARKS	
					SL - Sludge DW - Drinking Water	GW - Groundwater S - Soil/Solid	MW - Wastewater Specify Other	HNO ₃	HCl	NaOH				H ₂ SO ₄
20 MB-SB-8-06-5-8'	10/20/10	1600	G	N						2			PAH VOC PCB THM	Level 2 (Batch QC)
21 MB-SB-8-06-5-8' DUP		1605								1				
22 MB-SB-8-06-5-8'		1605								1				
23 MB-SB-8-09-5-12'		1605								2				

Special Instructions: see prev. page

Relinquished By: <u>[Signature]</u>	Date: <u>11/2/10</u>	Time: <u>1900</u>	Received By: <u>[Signature]</u>	Date: <u>11/3/10</u>	Time: <u>1741</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

LABORATORY COMMENTS:
 Init Lab Temp: _____
 Rec Lab Temp: _____
 Custody Seals: Y N N/A
 Bottles Supplied by TestAmerica: N
 Method of Shipment: FedEx

December 03, 2010

Client: Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608

Work Order: WTK0163
Project Name: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc, WI

Attn: Mr. Michael Bingham

Date Received: 11/03/10

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MB-SB-3@2-4'	WTK0163-01	10/26/10 16:48
MB-SB-3@2-4'	WTK0163-02	10/26/10 16:50
MB-SB-3@9-10'	WTK0163-03	10/26/10 17:00
MB-SB-4@3.5-4'	WTK0163-04	10/26/10 17:15
MB-SB-4@3.5-4'	WTK0163-05	10/26/10 17:20
MB-SB-4@6.5-8'	WTK0163-06	10/26/10 17:25
MB-SB-4@11.5-12'	WTK0163-07	10/26/10 17:55
MB-SB-5@2-4'	WTK0163-08	10/27/10 10:05
MB-SB-5@9.5-12'	WTK0163-09	10/27/10 10:30
MB-SB-5@9.5-12' DUP	WTK0163-10	10/27/10 10:35
MB-SB-5@14-15'	WTK0163-11	10/27/10 10:45
MB-SB-7@2-4'	WTK0163-12	10/27/10 14:30
MB-SB-7@2-4' DUP	WTK0163-13	10/27/10 14:35
MB-SB-7@2-4'	WTK0163-14	10/27/10 14:35
MB-SB-7@5.5-8'	WTK0163-15	10/27/10 14:38
MB-SB-7@5.5-8'	WTK0163-16	10/27/10 14:40
Trip Blank	WTK0163-17	10/27/10 14:48
MB-SB-9@5.5-8'	WTK0163-18	10/27/10 14:55
MB-SB-9@5.5-8' DUP	WTK0163-19	10/27/10 15:00
MB-SB-9@5.5-8'	WTK0163-20	10/27/10 15:05
MB-SB-10@3-4'	WTK0163-21	10/27/10 15:45
MB-SB-10@3-4'	WTK0163-22	10/27/10 15:50
MB-SB-10@5.5-7.5'	WTK0163-23	10/27/10 17:10
MB-SB-10@5.5-7.5'	WTK0163-24	10/27/10 17:15
MB-SB-11@3-4'	WTK0163-25	10/28/10 09:00
MB-SB-11@3-4'	WTK0163-26	10/28/10 09:05

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0163
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:37

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MB-SB-11@6.5-8'	WTK0163-27	10/28/10 10:50
MB-SB-11@6.5-8'	WTK0163-28	10/27/10 10:55
MB-SB-12@2.5-4'	WTK0163-29	10/28/10 11:05

Samples were received on ice into laboratory at a temperature of 0 °C.

Wisconsin Certification Number: 128053530

The Chain(s) of Custody, 4 pages, are included and are an integral part of this report.

Unless subcontracted, volatiles analyses (including VOC, PVO, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.

Approved By:



TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-01 (MB-SB-3@2-4' - Soil)						Sampled: 10/26/10 16:48			
General Chemistry Parameters									
% Solids	87		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
VOCs by SW8260B									
Benzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Bromobenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Bromochloromethane	<44		ug/kg dry	44	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Bromodichloromethane	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Bromoform	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Bromomethane	<130		ug/kg dry	130	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
n-Butylbenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
sec-Butylbenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
tert-Butylbenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Chlorobenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Chlorodibromomethane	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Chloroethane	<63		ug/kg dry	63	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Chloroform	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Chloromethane	<63		ug/kg dry	63	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
2-Chlorotoluene	<63		ug/kg dry	63	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
4-Chlorotoluene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<63		ug/kg dry	63	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Dibromomethane	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<63		ug/kg dry	63	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Isopropyl Ether	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Ethylbenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<44		ug/kg dry	44	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Isopropylbenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Methylene Chloride	120		ug/kg dry	63	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Naphthalene	110		ug/kg dry	63	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
n-Propylbenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Styrene	<63		ug/kg dry	63	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-01 (MB-SB-3@2-4' - Soil) - cont.						Sampled: 10/26/10 16:48			
VOCs by SW8260B - cont.									
1,1,2,2-Tetrachloroethane	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Tetrachloroethene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Toluene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<44		ug/kg dry	44	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Trichloroethene	380		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<63		ug/kg dry	63	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	38		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<32		ug/kg dry	32	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Vinyl chloride	<44		ug/kg dry	44	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
Xylenes, total	<110		ug/kg dry	110	1.1	11/09/10 13:27	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>102 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>97 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>102 %</i>								

Sample ID: WTK0163-02 (MB-SB-3@2-4' - Soil)						Sampled: 10/26/10 16:50			
General Chemistry Parameters									
% Solids	88		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
PNAs by SW8310									
Acenaphthene	<280		ug/kg dry	280	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Acenaphthylene	<480		ug/kg dry	480	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Anthracene	150		ug/kg dry	28	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Benzo (a) anthracene	1000		ug/kg dry	28	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	1300		ug/kg dry	28	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	410		ug/kg dry	28	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Benzo (a) pyrene	810		ug/kg dry	28	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	890		ug/kg dry	28	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Chrysene	1300		ug/kg dry	28	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	720		ug/kg dry	42	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Fluoranthene	2000		ug/kg dry	56	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Fluorene	72		ug/kg dry	56	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	780		ug/kg dry	28	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
1-Methylnaphthalene	290		ug/kg dry	170	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
2-Methylnaphthalene	860		ug/kg dry	170	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Naphthalene	260		ug/kg dry	170	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Phenanthrene	820		ug/kg dry	28	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
Pyrene	2100		ug/kg dry	28	5.0	11/15/10 12:24	CLJ	10K0272	SW 8310
<i>Surr: 2-Fluorobiphenyl (61-128%)</i>	<i>0.00 %</i>	<i>Z3</i>							

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-03 (MB-SB-3@9-10' - Soil)						Sampled: 10/26/10 17:00			
General Chemistry Parameters									
% Solids	87		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
VOCs by SW8260B									
Benzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Bromobenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Bromochloromethane	<40		ug/kg dry	40	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Bromodichloromethane	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Bromoform	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Bromomethane	<120		ug/kg dry	120	1	11/09/10 13:54	LCK	10K0256	SW 8260B
n-Butylbenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
sec-Butylbenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
tert-Butylbenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Chlorobenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Chlorodibromomethane	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Chloroethane	<58		ug/kg dry	58	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Chloroform	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Chloromethane	<58		ug/kg dry	58	1	11/09/10 13:54	LCK	10K0256	SW 8260B
2-Chlorotoluene	<58		ug/kg dry	58	1	11/09/10 13:54	LCK	10K0256	SW 8260B
4-Chlorotoluene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<58		ug/kg dry	58	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Dibromomethane	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<58		ug/kg dry	58	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Isopropyl Ether	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Ethylbenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<40		ug/kg dry	40	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Isopropylbenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Methylene Chloride	<58		ug/kg dry	58	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Naphthalene	<58		ug/kg dry	58	1	11/09/10 13:54	LCK	10K0256	SW 8260B
n-Propylbenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Styrene	<58		ug/kg dry	58	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,1,1,2,2-Tetrachloroethane	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Tetrachloroethene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
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 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-03 (MB-SB-3@9-10' - Soil) - cont.						Sampled: 10/26/10 17:00			
VOCs by SW8260B - cont.									
Toluene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<40		ug/kg dry	40	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Trichloroethene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<58		ug/kg dry	58	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<29		ug/kg dry	29	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Vinyl chloride	<40		ug/kg dry	40	1	11/09/10 13:54	LCK	10K0256	SW 8260B
Xylenes, total	<98		ug/kg dry	98	1	11/09/10 13:54	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	103 %								
<i>Surr: Toluene-d8 (80-120%)</i>	98 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	102 %								
Sample ID: WTK0163-04 (MB-SB-4@3.5-4' - Soil)						Sampled: 10/26/10 17:15			
General Chemistry Parameters									
% Solids	89		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
VOCs by SW8260B									
Benzene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Bromobenzene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Bromochloromethane	<47		ug/kg dry	47	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Bromodichloromethane	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Bromoform	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Bromomethane	<140		ug/kg dry	140	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
n-Butylbenzene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
sec-Butylbenzene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
tert-Butylbenzene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Chlorobenzene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Chlorodibromomethane	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Chloroethane	<68		ug/kg dry	68	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Chloroform	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Chloromethane	<68		ug/kg dry	68	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
2-Chlorotoluene	<68		ug/kg dry	68	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
4-Chlorotoluene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<68		ug/kg dry	68	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Dibromomethane	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<68		ug/kg dry	68	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-04 (MB-SB-4@3.5-4' - Soil) - cont.						Sampled: 10/26/10 17:15			
VOCs by SW8260B - cont.									
2,2-Dichloropropane	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Isopropyl Ether	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Ethylbenzene	73		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<47		ug/kg dry	47	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Isopropylbenzene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Methylene Chloride	<68		ug/kg dry	68	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Naphthalene	540		ug/kg dry	68	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
n-Propylbenzene	34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Styrene	<68		ug/kg dry	68	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Tetrachloroethene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Toluene	400		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<47		ug/kg dry	47	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Trichloroethene	170		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<34		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<68		ug/kg dry	68	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	210		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	53		ug/kg dry	34	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Vinyl chloride	<47		ug/kg dry	47	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
Xylenes, total	860		ug/kg dry	110	1.2	11/09/10 14:21	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>101 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>100 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>102 %</i>								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-05 (MB-SB-4@3.5-4' - Soil)					Sampled: 10/26/10 17:20				
General Chemistry Parameters									
% Solids	91		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
PNAs by SW8310									
Acenaphthene	<680		ug/kg dry	680	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Acenaphthylene	<1200		ug/kg dry	1200	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Anthracene	500		ug/kg dry	68	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Benzo (a) anthracene	1500		ug/kg dry	68	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	940		ug/kg dry	68	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	550		ug/kg dry	68	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Benzo (a) pyrene	890		ug/kg dry	68	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	900		ug/kg dry	68	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Chrysene	1300		ug/kg dry	68	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	540		ug/kg dry	100	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Fluoranthene	4500		ug/kg dry	140	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Fluorene	430		ug/kg dry	140	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	990		ug/kg dry	68	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
1-Methylnaphthalene	510		ug/kg dry	410	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
2-Methylnaphthalene	2300		ug/kg dry	410	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Naphthalene	1400		ug/kg dry	410	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Phenanthrene	2600		ug/kg dry	68	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Pyrene	4000		ug/kg dry	68	12.5	11/15/10 12:45	CLJ	10K0272	SW 8310
Surr: 2-Fluorobiphenyl (61-128%)	118 %								

Sample ID: WTK0163-06 (MB-SB-4@6.5-8' - Soil)					Sampled: 10/26/10 17:25				
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
VOCs by SW8260B									
Benzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Bromobenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Bromochloromethane	<47		ug/kg dry	47	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Bromodichloromethane	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Bromoform	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Bromomethane	<130		ug/kg dry	130	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
n-Butylbenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
sec-Butylbenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
tert-Butylbenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Chlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Chlorodibromomethane	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Chloroethane	<67		ug/kg dry	67	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Chloroform	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Chloromethane	<67		ug/kg dry	67	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
2-Chlorotoluene	<67		ug/kg dry	67	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
4-Chlorotoluene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<67		ug/kg dry	67	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Dibromomethane	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<67		ug/kg dry	67	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-06 (MB-SB-4@6.5-8' - Soil) - cont.						Sampled: 10/26/10 17:25			
VOCs by SW8260B - cont.									
1,2-Dichloroethane	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Isopropyl Ether	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Ethylbenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<47		ug/kg dry	47	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Isopropylbenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Methylene Chloride	<67		ug/kg dry	67	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Naphthalene	<67		ug/kg dry	67	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
n-Propylbenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Styrene	<67		ug/kg dry	67	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Tetrachloroethene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Toluene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<47		ug/kg dry	47	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Trichloroethene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<67		ug/kg dry	67	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<33		ug/kg dry	33	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Vinyl chloride	<47		ug/kg dry	47	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Xylenes, total	<110		ug/kg dry	110	1.2	11/09/10 14:47	LCK	10K0256	SW 8260B
Surr: Dibromofluoromethane (80-120%)	105 %								
Surr: Toluene-d8 (80-120%)	97 %								
Surr: 4-Bromofluorobenzene (80-120%)	100 %								

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0163
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-07 (MB-SB-4@11.5-12' - Soil)						Sampled: 10/26/10 17:55			
General Chemistry Parameters									
% Solids	76		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
VOCs by SW8260B									
Benzene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Bromobenzene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Bromochloromethane	<51		ug/kg dry	51	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Bromodichloromethane	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Bromoform	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Bromomethane	<140		ug/kg dry	140	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
n-Butylbenzene	140		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
sec-Butylbenzene	72		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
tert-Butylbenzene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Chlorobenzene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Chlorodibromomethane	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Chloroethane	<72		ug/kg dry	72	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Chloroform	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Chloromethane	<72		ug/kg dry	72	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
2-Chlorotoluene	<72		ug/kg dry	72	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
4-Chlorotoluene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<72		ug/kg dry	72	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Dibromomethane	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<72		ug/kg dry	72	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Isopropyl Ether	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Ethylbenzene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<51		ug/kg dry	51	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Isopropylbenzene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Methylene Chloride	<72		ug/kg dry	72	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Naphthalene	120		ug/kg dry	72	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
n-Propylbenzene	58		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Styrene	<72		ug/kg dry	72	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Tetrachloroethene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0163
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-07 (MB-SB-4@11.5-12' - Soil) - cont.						Sampled: 10/26/10 17:55			
VOCs by SW8260B - cont.									
Toluene	52		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<51		ug/kg dry	51	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Trichloroethene	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<36		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<72		ug/kg dry	72	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	260		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	47		ug/kg dry	36	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Vinyl chloride	<51		ug/kg dry	51	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
Xylenes, total	<120		ug/kg dry	120	1.1	11/09/10 15:14	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>100 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>97 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>101 %</i>								

Sample ID: WTK0163-08 (MB-SB-5@2-4' - Soil)						Sampled: 10/27/10 10:05			
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
VOCs by SW8260B									
Benzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Bromobenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Bromochloromethane	<47		ug/kg dry	47	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Bromodichloromethane	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Bromoform	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Bromomethane	<130		ug/kg dry	130	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
n-Butylbenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
sec-Butylbenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
tert-Butylbenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Chlorobenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Chlorodibromomethane	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Chloroethane	<67		ug/kg dry	67	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Chloroform	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Chloromethane	<67		ug/kg dry	67	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
2-Chlorotoluene	<67		ug/kg dry	67	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
4-Chlorotoluene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<67		ug/kg dry	67	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Dibromomethane	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<67		ug/kg dry	67	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-08 (MB-SB-5@2-4' - Soil) - cont.						Sampled: 10/27/10 10:05			
VOCs by SW8260B - cont.									
2,2-Dichloropropane	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Isopropyl Ether	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Ethylbenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<47		ug/kg dry	47	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Isopropylbenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Methylene Chloride	<67		ug/kg dry	67	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Naphthalene	150		ug/kg dry	67	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
n-Propylbenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Styrene	<67		ug/kg dry	67	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Tetrachloroethene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Toluene	45		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<47		ug/kg dry	47	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Trichloroethene	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<34		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<67		ug/kg dry	67	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	110		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	40		ug/kg dry	34	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Vinyl chloride	<47		ug/kg dry	47	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
Xylenes, total	180		ug/kg dry	110	1.2	11/09/10 15:41	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>101 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>97 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>99 %</i>								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-09 (MB-SB-5@9.5-12' - Soil)						Sampled: 10/27/10 10:30			
General Chemistry Parameters									
% Solids	80		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
VOCs by SW8260B									
Benzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Bromobenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Bromochloromethane	<44		ug/kg dry	44	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Bromodichloromethane	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Bromoform	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Bromomethane	<120		ug/kg dry	120	1	11/09/10 16:08	LCK	10K0256	SW 8260B
n-Butylbenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
sec-Butylbenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
tert-Butylbenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Chlorobenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Chlorodibromomethane	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Chloroethane	<62		ug/kg dry	62	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Chloroform	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Chloromethane	<62		ug/kg dry	62	1	11/09/10 16:08	LCK	10K0256	SW 8260B
2-Chlorotoluene	<62		ug/kg dry	62	1	11/09/10 16:08	LCK	10K0256	SW 8260B
4-Chlorotoluene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<62		ug/kg dry	62	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Dibromomethane	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<62		ug/kg dry	62	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Isopropyl Ether	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Ethylbenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<44		ug/kg dry	44	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Isopropylbenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Methylene Chloride	<62		ug/kg dry	62	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Naphthalene	<62		ug/kg dry	62	1	11/09/10 16:08	LCK	10K0256	SW 8260B
n-Propylbenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Styrene	<62		ug/kg dry	62	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Tetrachloroethene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
90 Madison Street
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Mr. Michael Bingham

Work Order: WTK0163
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-09 (MB-SB-5@9.5-12' - Soil) - cont.						Sampled: 10/27/10 10:30			
VOCs by SW8260B - cont.									
Toluene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<44		ug/kg dry	44	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Trichloroethene	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<31		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<62		ug/kg dry	62	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	120		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	98		ug/kg dry	31	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Vinyl chloride	<44		ug/kg dry	44	1	11/09/10 16:08	LCK	10K0256	SW 8260B
Xylenes, total	<110		ug/kg dry	110	1	11/09/10 16:08	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>101 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>98 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>101 %</i>								
Sample ID: WTK0163-10 (MB-SB-5@9.5-12' DUP - Soil)						Sampled: 10/27/10 10:35			
General Chemistry Parameters									
% Solids	82		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Bromochloromethane	<42		ug/kg dry	42	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Bromoform	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Bromomethane	<120		ug/kg dry	120	1	11/09/10 16:35	LCK	10K0256	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Chloroethane	<61		ug/kg dry	61	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Chloroform	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Chloromethane	<61		ug/kg dry	61	1	11/09/10 16:35	LCK	10K0256	SW 8260B
2-Chlorotoluene	<61		ug/kg dry	61	1	11/09/10 16:35	LCK	10K0256	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<61		ug/kg dry	61	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<61		ug/kg dry	61	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-10 (MB-SB-5@9.5-12' DUP - Soil) - cont.						Sampled: 10/27/10 10:35			
VOCs by SW8260B - cont.									
2,2-Dichloropropane	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<42		ug/kg dry	42	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Methylene Chloride	<61		ug/kg dry	61	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Naphthalene	<61		ug/kg dry	61	1	11/09/10 16:35	LCK	10K0256	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Styrene	<61		ug/kg dry	61	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Tetrachloroethene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Toluene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<42		ug/kg dry	42	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Trichloroethene	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<61		ug/kg dry	61	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	80		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	62		ug/kg dry	30	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Vinyl chloride	<42		ug/kg dry	42	1	11/09/10 16:35	LCK	10K0256	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1	11/09/10 16:35	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>101 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>98 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>102 %</i>								

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0163
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-11 (MB-SB-5@14-15' - Soil)						Sampled: 10/27/10 10:45			
General Chemistry Parameters									
% Solids	77		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
VOCs by SW8260B									
Benzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Bromobenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Bromochloromethane	<45		ug/kg dry	45	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Bromodichloromethane	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Bromoform	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Bromomethane	<130		ug/kg dry	130	1	11/09/10 17:02	LCK	10K0256	SW 8260B
n-Butylbenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
sec-Butylbenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
tert-Butylbenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Chlorobenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Chlorodibromomethane	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Chloroethane	<65		ug/kg dry	65	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Chloroform	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Chloromethane	<65		ug/kg dry	65	1	11/09/10 17:02	LCK	10K0256	SW 8260B
2-Chlorotoluene	<65		ug/kg dry	65	1	11/09/10 17:02	LCK	10K0256	SW 8260B
4-Chlorotoluene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<65		ug/kg dry	65	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Dibromomethane	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<65		ug/kg dry	65	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Isopropyl Ether	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Ethylbenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<45		ug/kg dry	45	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Isopropylbenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Methylene Chloride	<65		ug/kg dry	65	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Naphthalene	<65		ug/kg dry	65	1	11/09/10 17:02	LCK	10K0256	SW 8260B
n-Propylbenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Styrene	<65		ug/kg dry	65	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,1,1,2,2-Tetrachloroethane	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Tetrachloroethene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0163
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-11 (MB-SB-5@14-15' - Soil) - cont.						Sampled: 10/27/10 10:45			
VOCs by SW8260B - cont.									
Toluene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<45		ug/kg dry	45	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Trichloroethene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<65		ug/kg dry	65	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<32		ug/kg dry	32	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Vinyl chloride	<45		ug/kg dry	45	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Xylenes, total	<110		ug/kg dry	110	1	11/09/10 17:02	LCK	10K0256	SW 8260B
Surr: Dibromofluoromethane (80-120%)	102 %								
Surr: Toluene-d8 (80-120%)	98 %								
Surr: 4-Bromofluorobenzene (80-120%)	102 %								
Sample ID: WTK0163-12 (MB-SB-7@2-4' - Soil)						Sampled: 10/27/10 14:30			
General Chemistry Parameters									
% Solids	87		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
VOCs by SW8260B									
Benzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Bromobenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Bromochloromethane	<44		ug/kg dry	44	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Bromodichloromethane	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Bromoform	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Bromomethane	<130		ug/kg dry	130	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
n-Butylbenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
sec-Butylbenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
tert-Butylbenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Chlorobenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Chlorodibromomethane	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Chloroethane	<63		ug/kg dry	63	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Chloroform	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Chloromethane	<63		ug/kg dry	63	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
2-Chlorotoluene	<63		ug/kg dry	63	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
4-Chlorotoluene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<63		ug/kg dry	63	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Dibromomethane	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<63		ug/kg dry	63	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-12 (MB-SB-7@2-4' - Soil) - cont.						Sampled: 10/27/10 14:30			
VOCs by SW8260B - cont.									
2,2-Dichloropropane	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Isopropyl Ether	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Ethylbenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<44		ug/kg dry	44	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Isopropylbenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Methylene Chloride	120		ug/kg dry	63	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Naphthalene	<63		ug/kg dry	63	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
n-Propylbenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Styrene	<63		ug/kg dry	63	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Tetrachloroethene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Toluene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<44		ug/kg dry	44	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Trichloroethene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<63		ug/kg dry	63	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<32		ug/kg dry	32	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Vinyl chloride	<44		ug/kg dry	44	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
Xylenes, total	<110		ug/kg dry	110	1.1	11/09/10 17:29	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>99 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>98 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>102 %</i>								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-13 (MB-SB-7@2-4' DUP - Soil)						Sampled: 10/27/10 14:35			
General Chemistry Parameters									
% Solids	89		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
Metals									
Aluminum	10000		mg/kg dry	2.7	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Antimony	1.0	B	mg/kg dry	0.054	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Arsenic	5.4		mg/kg dry	2.7	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Barium	39		mg/kg dry	0.12	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Beryllium	0.33		mg/kg dry	0.012	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Cadmium	0.77		mg/kg dry	0.11	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Calcium	35000	B	mg/kg dry	1.3	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Chromium	12		mg/kg dry	0.19	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Cobalt	4.7		mg/kg dry	0.60	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Copper	410		mg/kg dry	1.7	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Iron	18000		mg/kg dry	1.4	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Lead	62		mg/kg dry	1.3	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Magnesium	17000		mg/kg dry	1.3	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Manganese	360		mg/kg dry	0.087	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Mercury	0.027		mg/kg dry	0.010	0.9	11/08/10 11:26	jej	10K0170	SW 7471A
Nickel	12		mg/kg dry	0.38	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Potassium	630		mg/kg dry	1.8	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Selenium	6.0		mg/kg dry	4.3	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Silver	0.45		mg/kg dry	0.12	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Sodium	310		mg/kg dry	0.95	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Thallium	<3.5		mg/kg dry	3.5	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Vanadium	23		mg/kg dry	0.14	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Zinc	320		mg/kg dry	0.26	1.0	12/02/10 17:31	mmm	10K0243	SW 6010B
Sample ID: WTK0163-14 (MB-SB-7@2-4' - Soil)						Sampled: 10/27/10 14:35			
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
Metals									
Aluminum	6400		mg/kg dry	2.5	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Antimony	3.3	B	mg/kg dry	0.050	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Arsenic	9.3		mg/kg dry	2.5	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Barium	32		mg/kg dry	0.11	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Beryllium	0.26		mg/kg dry	0.011	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Cadmium	0.61		mg/kg dry	0.10	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Calcium	28000	B	mg/kg dry	1.2	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Chromium	7.9		mg/kg dry	0.18	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Cobalt	3.1		mg/kg dry	0.55	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Copper	270		mg/kg dry	1.6	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Iron	11000		mg/kg dry	1.3	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Lead	63		mg/kg dry	1.2	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Magnesium	15000		mg/kg dry	1.2	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Manganese	200		mg/kg dry	0.080	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Mercury	0.023		mg/kg dry	0.011	1.0	11/08/10 11:28	jej	10K0170	SW 7471A
Nickel	9.2		mg/kg dry	0.35	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Potassium	520		mg/kg dry	1.7	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Selenium	<4.0		mg/kg dry	4.0	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Silver	0.25		mg/kg dry	0.11	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Sodium	240		mg/kg dry	0.88	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Thallium	<3.2		mg/kg dry	3.2	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B

Advanced Environmental Solutions, Inc.
 90 Madison Street
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Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-14 (MB-SB-7@2-4' - Soil) - cont.						Sampled: 10/27/10 14:35			
Metals - cont.									
Vanadium	16		mg/kg dry	0.13	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Zinc	210		mg/kg dry	0.24	0.9	12/02/10 17:35	mmm	10K0243	SW 6010B
Sample ID: WTK0163-15 (MB-SB-7@5.5-8' - Soil)						Sampled: 10/27/10 14:38			
General Chemistry Parameters									
% Solids	92		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
VOCs by SW8260B									
Benzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Bromobenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Bromochloromethane	<46		ug/kg dry	46	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Bromodichloromethane	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Bromoform	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Bromomethane	<130		ug/kg dry	130	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
n-Butylbenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
sec-Butylbenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
tert-Butylbenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Chlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Chlorodibromomethane	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Chloroethane	<65		ug/kg dry	65	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Chloroform	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Chloromethane	<65		ug/kg dry	65	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
2-Chlorotoluene	<65		ug/kg dry	65	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
4-Chlorotoluene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<65		ug/kg dry	65	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Dibromomethane	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<65		ug/kg dry	65	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Isopropyl Ether	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Ethylbenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<46		ug/kg dry	46	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Isopropylbenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Methylene Chloride	160		ug/kg dry	65	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Naphthalene	<65		ug/kg dry	65	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
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Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-15 (MB-SB-7@5.5-8' - Soil) - cont.						Sampled: 10/27/10 14:38			
VOCs by SW8260B - cont.									
n-Propylbenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Styrene	<65		ug/kg dry	65	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Tetrachloroethene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Toluene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<46		ug/kg dry	46	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Trichloroethene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<65		ug/kg dry	65	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<33		ug/kg dry	33	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Vinyl chloride	<46		ug/kg dry	46	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Xylenes, total	<110		ug/kg dry	110	1.2	11/09/10 17:57	LCK	10K0256	SW 8260B
Surr: Dibromofluoromethane (80-120%)	103 %								
Surr: Toluene-d8 (80-120%)	96 %								
Surr: 4-Bromofluorobenzene (80-120%)	101 %								

Sample ID: WTK0163-16 (MB-SB-7@5.5-8' - Soil)									
General Chemistry Parameters									
% Solids	92		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
Metals									
Aluminum	2900		mg/kg dry	2.6	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Antimony	1.0	B	mg/kg dry	0.051	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Arsenic	6.2		mg/kg dry	2.6	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Barium	6.9		mg/kg dry	0.11	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Beryllium	0.080		mg/kg dry	0.011	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Cadmium	<0.10		mg/kg dry	0.10	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Calcium	83000	B	mg/kg dry	1.2	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Chromium	6.8		mg/kg dry	0.18	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Cobalt	3.1		mg/kg dry	0.56	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Copper	8.6		mg/kg dry	1.6	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Iron	6800		mg/kg dry	1.3	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Lead	3.3		mg/kg dry	1.2	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Magnesium	52000		mg/kg dry	1.2	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Manganese	180		mg/kg dry	0.082	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Mercury	<0.010		mg/kg dry	0.010	1.0	11/08/10 11:30	jej	10K0170	SW 7471A
Nickel	6.2		mg/kg dry	0.36	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Potassium	370		mg/kg dry	1.7	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Selenium	<4.1		mg/kg dry	4.1	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Silver	0.12		mg/kg dry	0.11	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Sodium	300		mg/kg dry	0.90	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Thallium	6.4	B	mg/kg dry	3.3	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Vanadium	16		mg/kg dry	0.13	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B
Zinc	11		mg/kg dry	0.25	0.9	12/02/10 17:39	mmm	10K0243	SW 6010B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-17 (Trip Blank - Methanol)						Sampled: 10/27/10 14:48			
VOCs by SW8260B									
Benzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Bromobenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Bromochloromethane	<35		ug/kg wet	35	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Bromodichloromethane	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Bromoform	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Bromomethane	<100		ug/kg wet	100	1	11/09/10 20:39	LCK	10K0256	SW 8260B
n-Butylbenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
sec-Butylbenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
tert-Butylbenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Chlorobenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Chlorodibromomethane	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Chloroethane	<50		ug/kg wet	50	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Chloroform	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Chloromethane	<50		ug/kg wet	50	1	11/09/10 20:39	LCK	10K0256	SW 8260B
2-Chlorotoluene	<50		ug/kg wet	50	1	11/09/10 20:39	LCK	10K0256	SW 8260B
4-Chlorotoluene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<50		ug/kg wet	50	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Dibromomethane	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<50		ug/kg wet	50	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Isopropyl Ether	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Ethylbenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<35		ug/kg wet	35	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Isopropylbenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Methylene Chloride	<50		ug/kg wet	50	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Naphthalene	<50		ug/kg wet	50	1	11/09/10 20:39	LCK	10K0256	SW 8260B
n-Propylbenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Styrene	<50		ug/kg wet	50	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Tetrachloroethene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Toluene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-17 (Trip Blank - Methanol) - cont.					Sampled: 10/27/10 14:48				
VOCs by SW8260B - cont.									
1,2,4-Trichlorobenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<35		ug/kg wet	35	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Trichloroethene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<50		ug/kg wet	50	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<25		ug/kg wet	25	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Vinyl chloride	<35		ug/kg wet	35	1	11/09/10 20:39	LCK	10K0256	SW 8260B
Xylenes, total	<85		ug/kg wet	85	1	11/09/10 20:39	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	107 %								
<i>Surr: Toluene-d8 (80-120%)</i>	97 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	101 %								
Sample ID: WTK0163-18 (MB-SB-9@5.5-8' - Soil)					Sampled: 10/27/10 14:55				
General Chemistry Parameters									
% Solids	91		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
VOCs by SW8260B									
Benzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Bromobenzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Bromochloromethane	<46		ug/kg dry	46	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Bromodichloromethane	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Bromoform	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Bromomethane	<130		ug/kg dry	130	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
n-Butylbenzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
sec-Butylbenzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
tert-Butylbenzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Chlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Chlorodibromomethane	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Chloroethane	<66		ug/kg dry	66	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Chloroform	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Chloromethane	<66		ug/kg dry	66	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
2-Chlorotoluene	<66		ug/kg dry	66	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
4-Chlorotoluene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<66		ug/kg dry	66	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Dibromomethane	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	64		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<66		ug/kg dry	66	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-18 (MB-SB-9@5.5-8' - Soil) - cont.						Sampled: 10/27/10 14:55			
VOCs by SW8260B - cont.									
cis-1,3-Dichloropropene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Isopropyl Ether	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Ethylbenzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<46		ug/kg dry	46	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Isopropylbenzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Methylene Chloride	270		ug/kg dry	66	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Naphthalene	<66		ug/kg dry	66	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
n-Propylbenzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Styrene	<66		ug/kg dry	66	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Tetrachloroethene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Toluene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	180		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	970		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<46		ug/kg dry	46	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Trichloroethene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<66		ug/kg dry	66	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<33		ug/kg dry	33	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Vinyl chloride	<46		ug/kg dry	46	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
Xylenes, total	<110		ug/kg dry	110	1.2	11/09/10 18:24	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>101 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>96 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>102 %</i>								

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0163
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-19 (MB-SB-9@5.5-8' DUP - Soil)					Sampled: 10/27/10 15:00				
General Chemistry Parameters									
% Solids	88		%	NA	1	11/05/10 09:21	kjk	10K0165	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:49	CLJ	10K0308	SW 8082
PCB-1221	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:49	CLJ	10K0308	SW 8082
PCB-1232	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:49	CLJ	10K0308	SW 8082
PCB-1242	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:49	CLJ	10K0308	SW 8082
PCB-1248	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:49	CLJ	10K0308	SW 8082
PCB-1254	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:49	CLJ	10K0308	SW 8082
PCB-1260	<0.028		mg/kg dry	0.028	0.8	11/17/10 18:49	CLJ	10K0308	SW 8082
Surr: Decachlorobiphenyl (10-177%)	94 %								
Surr: Tetrachloro-meta-xylene (11-150%)	110 %								
Sample ID: WTK0163-20 (MB-SB-9@5.5-8' - Soil)					Sampled: 10/27/10 15:05				
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:14	CLJ	10K0308	SW 8082
PCB-1221	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:14	CLJ	10K0308	SW 8082
PCB-1232	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:14	CLJ	10K0308	SW 8082
PCB-1242	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:14	CLJ	10K0308	SW 8082
PCB-1248	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:14	CLJ	10K0308	SW 8082
PCB-1254	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:14	CLJ	10K0308	SW 8082
PCB-1260	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:14	CLJ	10K0308	SW 8082
Surr: Decachlorobiphenyl (10-177%)	89 %								
Surr: Tetrachloro-meta-xylene (11-150%)	100 %								
Sample ID: WTK0163-21 (MB-SB-10@3-4' - Soil)					Sampled: 10/27/10 15:45				
General Chemistry Parameters									
% Solids	91		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Bromochloromethane	<42		ug/kg dry	42	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Bromoform	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Bromomethane	<120		ug/kg dry	120	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Chloroethane	<60		ug/kg dry	60	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Chloroform	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Chloromethane	<60		ug/kg dry	60	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
2-Chlorotoluene	<60		ug/kg dry	60	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<60		ug/kg dry	60	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-21 (MB-SB-10@3-4' - Soil) - cont.						Sampled: 10/27/10 15:45			
VOCs by SW8260B - cont.									
1,3-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<60		ug/kg dry	60	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
2,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<42		ug/kg dry	42	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Methylene Chloride	190		ug/kg dry	60	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Naphthalene	<60		ug/kg dry	60	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Styrene	<60		ug/kg dry	60	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Tetrachloroethene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Toluene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<42		ug/kg dry	42	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Trichloroethene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<60		ug/kg dry	60	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<30		ug/kg dry	30	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Vinyl chloride	<42		ug/kg dry	42	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1.1	11/09/10 18:51	LCK	10K0256	SW 8260B
Surr: Dibromofluoromethane (80-120%)	103 %								
Surr: Toluene-d8 (80-120%)	98 %								
Surr: 4-Bromofluorobenzene (80-120%)	102 %								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-22 (MB-SB-10@3-4' - Soil)					Sampled: 10/27/10 15:50				
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:38	CLJ	10K0308	SW 8082
PCB-1221	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:38	CLJ	10K0308	SW 8082
PCB-1232	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:38	CLJ	10K0308	SW 8082
PCB-1242	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:38	CLJ	10K0308	SW 8082
PCB-1248	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:38	CLJ	10K0308	SW 8082
PCB-1254	<0.027		mg/kg dry	0.027	0.8	11/18/10 15:38	CLJ	10K0308	SW 8082
PCB-1260	0.027		mg/kg dry	0.027	0.8	11/18/10 15:38	CLJ	10K0308	SW 8082
Surr: Decachlorobiphenyl (10-177%)	74 %								
Surr: Tetrachloro-meta-xylene (11-150%)	89 %								
Sample ID: WTK0163-23 (MB-SB-10@5.5-7.5' - Soil)					Sampled: 10/27/10 17:10				
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
VOCs by SW8260B									
Benzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Bromobenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Bromochloromethane	<39		ug/kg dry	39	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Bromodichloromethane	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Bromoform	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Bromomethane	<110		ug/kg dry	110	1	11/09/10 19:18	LCK	10K0256	SW 8260B
n-Butylbenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
sec-Butylbenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
tert-Butylbenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Chlorobenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Chlorodibromomethane	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Chloroethane	<56		ug/kg dry	56	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Chloroform	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Chloromethane	<56		ug/kg dry	56	1	11/09/10 19:18	LCK	10K0256	SW 8260B
2-Chlorotoluene	<56		ug/kg dry	56	1	11/09/10 19:18	LCK	10K0256	SW 8260B
4-Chlorotoluene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<56		ug/kg dry	56	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Dibromomethane	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<56		ug/kg dry	56	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-23 (MB-SB-10@5.5-7.5' - Soil) - cont.						Sampled: 10/27/10 17:10			
VOCs by SW8260B - cont.									
2,3-Dichloropropene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Isopropyl Ether	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Ethylbenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<39		ug/kg dry	39	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Isopropylbenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Methylene Chloride	<56		ug/kg dry	56	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Naphthalene	<56		ug/kg dry	56	1	11/09/10 19:18	LCK	10K0256	SW 8260B
n-Propylbenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Styrene	<56		ug/kg dry	56	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Tetrachloroethene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Toluene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<39		ug/kg dry	39	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Trichloroethene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<56		ug/kg dry	56	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<28		ug/kg dry	28	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Vinyl chloride	<39		ug/kg dry	39	1	11/09/10 19:18	LCK	10K0256	SW 8260B
Xylenes, total	<95		ug/kg dry	95	1	11/09/10 19:18	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>102 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>97 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>103 %</i>								

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0163
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-24 (MB-SB-10@5.5-7.5' - Soil)					Sampled: 10/27/10 17:15				
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<0.027		mg/kg dry	0.027	0.8	11/18/10 16:02	CLJ	10K0308	SW 8082
PCB-1221	<0.027		mg/kg dry	0.027	0.8	11/18/10 16:02	CLJ	10K0308	SW 8082
PCB-1232	<0.027		mg/kg dry	0.027	0.8	11/18/10 16:02	CLJ	10K0308	SW 8082
PCB-1242	<0.027		mg/kg dry	0.027	0.8	11/18/10 16:02	CLJ	10K0308	SW 8082
PCB-1248	<0.027		mg/kg dry	0.027	0.8	11/18/10 16:02	CLJ	10K0308	SW 8082
PCB-1254	<0.027		mg/kg dry	0.027	0.8	11/18/10 16:02	CLJ	10K0308	SW 8082
PCB-1260	<0.027		mg/kg dry	0.027	0.8	11/18/10 16:02	CLJ	10K0308	SW 8082
Surr: Decachlorobiphenyl (10-177%)	93 %								
Surr: Tetrachloro-meta-xylene (11-150%)	115 %								
Sample ID: WTK0163-25 (MB-SB-11@3-4' - Soil)					Sampled: 10/28/10 09:00				
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Bromochloromethane	<43		ug/kg dry	43	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Bromoform	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Bromomethane	<120		ug/kg dry	120	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Chloroethane	<61		ug/kg dry	61	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Chloroform	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Chloromethane	<61		ug/kg dry	61	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
2-Chlorotoluene	<61		ug/kg dry	61	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<61		ug/kg dry	61	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<61		ug/kg dry	61	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-25 (MB-SB-11@3-4' - Soil) - cont.						Sampled: 10/28/10 09:00			
VOCs by SW8260B - cont.									
2,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<43		ug/kg dry	43	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Methylene Chloride	89		ug/kg dry	61	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Naphthalene	62		ug/kg dry	61	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Styrene	<61		ug/kg dry	61	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Tetrachloroethene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Toluene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<43		ug/kg dry	43	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Trichloroethene	47		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<61		ug/kg dry	61	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<30		ug/kg dry	30	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Vinyl chloride	<43		ug/kg dry	43	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1.1	11/09/10 19:45	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>100 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>98 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>102 %</i>								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-26 (MB-SB-11@3-4' - Soil)					Sampled: 10/28/10 09:05				
General Chemistry Parameters									
% Solids	92		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	0.67		mg/kg dry	0.053	1.5	11/18/10 16:26	CLJ	10K0308	SW 8082
PCB-1221	<0.053		mg/kg dry	0.053	1.5	11/18/10 16:26	CLJ	10K0308	SW 8082
PCB-1232	<0.053		mg/kg dry	0.053	1.5	11/18/10 16:26	CLJ	10K0308	SW 8082
PCB-1242	<0.053		mg/kg dry	0.053	1.5	11/18/10 16:26	CLJ	10K0308	SW 8082
PCB-1248	<0.053		mg/kg dry	0.053	1.5	11/18/10 16:26	CLJ	10K0308	SW 8082
PCB-1254	<0.053		mg/kg dry	0.053	1.5	11/18/10 16:26	CLJ	10K0308	SW 8082
PCB-1260	<0.053		mg/kg dry	0.053	1.5	11/18/10 16:26	CLJ	10K0308	SW 8082
Surr: Decachlorobiphenyl (10-177%)	90 %								
Surr: Tetrachloro-meta-xylene (11-150%)	85 %								
Sample ID: WTK0163-27 (MB-SB-11@6.5-8' - Soil)					Sampled: 10/28/10 10:50				
General Chemistry Parameters									
% Solids	85		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
VOCs by SW8260B									
Benzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Bromobenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Bromochloromethane	<41		ug/kg dry	41	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Bromodichloromethane	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Bromoform	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Bromomethane	<120		ug/kg dry	120	1	11/09/10 20:12	LCK	10K0256	SW 8260B
n-Butylbenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
sec-Butylbenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
tert-Butylbenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Carbon Tetrachloride	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Chlorobenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Chlorodibromomethane	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Chloroethane	<59		ug/kg dry	59	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Chloroform	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Chloromethane	<59		ug/kg dry	59	1	11/09/10 20:12	LCK	10K0256	SW 8260B
2-Chlorotoluene	<59		ug/kg dry	59	1	11/09/10 20:12	LCK	10K0256	SW 8260B
4-Chlorotoluene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,2-Dibromo-3-chloropropane	<59		ug/kg dry	59	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,2-Dibromoethane (EDB)	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Dibromomethane	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,2-Dichlorobenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,3-Dichlorobenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,4-Dichlorobenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Dichlorodifluoromethane	<59		ug/kg dry	59	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,1-Dichloroethane	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,2-Dichloroethane	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,1-Dichloroethene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
cis-1,2-Dichloroethene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
trans-1,2-Dichloroethene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,2-Dichloropropane	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,3-Dichloropropane	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
2,2-Dichloropropane	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,1-Dichloropropene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
cis-1,3-Dichloropropene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
trans-1,3-Dichloropropene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-27 (MB-SB-11@6.5-8' - Soil) - cont.						Sampled: 10/28/10 10:50			
VOCs by SW8260B - cont.									
2,3-Dichloropropene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Isopropyl Ether	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Ethylbenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Hexachlorobutadiene	<41		ug/kg dry	41	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Isopropylbenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
p-Isopropyltoluene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Methylene Chloride	<59		ug/kg dry	59	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Methyl tert-Butyl Ether	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Naphthalene	<59		ug/kg dry	59	1	11/09/10 20:12	LCK	10K0256	SW 8260B
n-Propylbenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Styrene	<59		ug/kg dry	59	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,1,1,2-Tetrachloroethane	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,1,2,2-Tetrachloroethane	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Tetrachloroethene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Toluene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,2,3-Trichlorobenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,2,4-Trichlorobenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,1,1-Trichloroethane	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,1,2-Trichloroethane	<41		ug/kg dry	41	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Trichloroethene	30		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Trichlorofluoromethane	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,2,3-Trichloropropane	<59		ug/kg dry	59	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,2,4-Trimethylbenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
1,3,5-Trimethylbenzene	<29		ug/kg dry	29	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Vinyl chloride	<41		ug/kg dry	41	1	11/09/10 20:12	LCK	10K0256	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1	11/09/10 20:12	LCK	10K0256	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>104 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>98 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>104 %</i>								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-28 (MB-SB-11@6.5-8' - Soil)					Sampled: 10/27/10 10:55				
General Chemistry Parameters									
% Solids	87		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<0.029		mg/kg dry	0.029	0.8	11/18/10 16:50	CLJ	10K0308	SW 8082
PCB-1221	<0.029		mg/kg dry	0.029	0.8	11/18/10 16:50	CLJ	10K0308	SW 8082
PCB-1232	<0.029		mg/kg dry	0.029	0.8	11/18/10 16:50	CLJ	10K0308	SW 8082
PCB-1242	<0.029		mg/kg dry	0.029	0.8	11/18/10 16:50	CLJ	10K0308	SW 8082
PCB-1248	<0.029		mg/kg dry	0.029	0.8	11/18/10 16:50	CLJ	10K0308	SW 8082
PCB-1254	<0.029		mg/kg dry	0.029	0.8	11/18/10 16:50	CLJ	10K0308	SW 8082
PCB-1260	<0.029		mg/kg dry	0.029	0.8	11/18/10 16:50	CLJ	10K0308	SW 8082
Surr: Decachlorobiphenyl (10-177%)	91 %								
Surr: Tetrachloro-meta-xylene (11-150%)	110 %								
Sample ID: WTK0163-29 (MB-SB-12@2.5-4' - Soil)					Sampled: 10/28/10 11:05				
General Chemistry Parameters									
% Solids	90		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Bromochloromethane	<43		ug/kg dry	43	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Bromoform	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Bromomethane	<120		ug/kg dry	120	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Chloroethane	<61		ug/kg dry	61	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Chloroform	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Chloromethane	<61		ug/kg dry	61	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
2-Chlorotoluene	<61		ug/kg dry	61	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,2-Dibromo-3-chloropropane	<61		ug/kg dry	61	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,3-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Dichlorodifluoromethane	<61		ug/kg dry	61	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
2,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0163-29 (MB-SB-12@2.5-4' - Soil) - cont.						Sampled: 10/28/10 11:05			
VOCs by SW8260B - cont.									
2,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Hexachlorobutadiene	<43		ug/kg dry	43	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Methylene Chloride	70		ug/kg dry	61	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Naphthalene	<61		ug/kg dry	61	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Styrene	<61		ug/kg dry	61	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Tetrachloroethene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Toluene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,1,2-Trichloroethane	<43		ug/kg dry	43	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Trichloroethene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,2,3-Trichloropropane	<61		ug/kg dry	61	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,2,4-Trimethylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
1,3,5-Trimethylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Vinyl chloride	<43		ug/kg dry	43	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1.1	11/10/10 13:57	LCK	10K0279	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>100 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>98 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>100 %</i>								

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Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
BNAs by SW8270C							
n/a		WTK0163-02					
n/a		WTK0163-05					
PNAs by SW8310							
SW 8310	10K0272	WTK0163-02	10	2	11/09/10 10:39	TLH	SW 3546
SW 8310	10K0272	WTK0163-05	10	3	11/09/10 10:39	TLH	SW 3546
Polychlorinated Biphenyls by EPA Method 8082							
n/a		WTK0163-19					
n/a		WTK0163-20					
n/a		WTK0163-22					
n/a		WTK0163-24					
n/a		WTK0163-26					
n/a		WTK0163-28					
SW 8082	10K0308	WTK0163-19	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen
SW 8082	10K0308	WTK0163-20	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen
SW 8082	10K0308	WTK0163-22	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen
SW 8082	10K0308	WTK0163-24	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen
SW 8082	10K0308	WTK0163-26	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen
SW 8082	10K0308	WTK0163-28	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Metals														
Mercury	10K0170			mg/kg wet	N/A	0.010	<0.010							
Aluminum	10K0243			mg/kg wet	N/A	2.5	<2.5							
Antimony	10K0243			mg/kg wet	N/A	0.050	0.397							
Arsenic	10K0243			mg/kg wet	N/A	2.5	<2.5							
Barium	10K0243			mg/kg wet	N/A	0.11	<0.11							
Beryllium	10K0243			mg/kg wet	N/A	0.011	<0.011							
Cadmium	10K0243			mg/kg wet	N/A	0.10	<0.10							
Calcium	10K0243			mg/kg wet	N/A	1.2	1.95							
Chromium	10K0243			mg/kg wet	N/A	0.18	<0.18							
Cobalt	10K0243			mg/kg wet	N/A	0.55	<0.55							
Copper	10K0243			mg/kg wet	N/A	1.6	<1.6							
Iron	10K0243			mg/kg wet	N/A	1.3	<1.3							
Lead	10K0243			mg/kg wet	N/A	1.2	<1.2							
Magnesium	10K0243			mg/kg wet	N/A	1.2	<1.2							
Manganese	10K0243			mg/kg wet	N/A	0.080	<0.080							
Nickel	10K0243			mg/kg wet	N/A	0.35	<0.35							
Potassium	10K0243			mg/kg wet	N/A	1.7	<1.7							
Selenium	10K0243			mg/kg wet	N/A	4.0	<4.0							
Silver	10K0243			mg/kg wet	N/A	0.11	<0.11							
Sodium	10K0243			mg/kg wet	N/A	0.88	<0.88							
Thallium	10K0243			mg/kg wet	N/A	3.2	3.53							
Vanadium	10K0243			mg/kg wet	N/A	0.13	<0.13							
Zinc	10K0243			mg/kg wet	N/A	0.24	<0.24							
Polychlorinated Biphenyls by EPA Method 8082														
PCB-1016	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1221	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1232	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1242	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1248	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1254	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1260	10K0308			mg/kg wet	N/A	0.025	<0.025							
Surrogate: Decachlorobiphenyl	10K0308			mg/kg wet					100		10-177			
Surrogate: Tetrachloro-meta-xylene	10K0308			mg/kg wet					116		11-150			
VOCs by SW8260B														
Benzene	10K0256			ug/kg wet	N/A	25	<25							
Bromobenzene	10K0256			ug/kg wet	N/A	25	<25							
Bromochloromethane	10K0256			ug/kg wet	N/A	35	<35							
Bromodichloromethane	10K0256			ug/kg wet	N/A	25	<25							
Bromoform	10K0256			ug/kg wet	N/A	25	<25							
Bromomethane	10K0256			ug/kg wet	N/A	100	<100							
n-Butylbenzene	10K0256			ug/kg wet	N/A	25	<25							
sec-Butylbenzene	10K0256			ug/kg wet	N/A	25	<25							
tert-Butylbenzene	10K0256			ug/kg wet	N/A	25	<25							
Carbon Tetrachloride	10K0256			ug/kg wet	N/A	25	<25							

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Work Order: WTK0163
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 Reported: 12/03/10 15:37

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
Chlorobenzene	10K0256			ug/kg wet	N/A	25	<25							
Chlorodibromomethane	10K0256			ug/kg wet	N/A	25	<25							
Chloroethane	10K0256			ug/kg wet	N/A	50	<50							
Chloroform	10K0256			ug/kg wet	N/A	25	<25							
Chloromethane	10K0256			ug/kg wet	N/A	50	<50							
2-Chlorotoluene	10K0256			ug/kg wet	N/A	50	<50							
4-Chlorotoluene	10K0256			ug/kg wet	N/A	25	<25							
1,2-Dibromo-3-chloropropane	10K0256			ug/kg wet	N/A	50	<50							
1,2-Dibromoethane (EDB)	10K0256			ug/kg wet	N/A	25	<25							
Dibromomethane	10K0256			ug/kg wet	N/A	25	<25							
1,2-Dichlorobenzene	10K0256			ug/kg wet	N/A	25	<25							
1,3-Dichlorobenzene	10K0256			ug/kg wet	N/A	25	<25							
1,4-Dichlorobenzene	10K0256			ug/kg wet	N/A	25	<25							
Dichlorodifluoromethane	10K0256			ug/kg wet	N/A	50	<50							
1,1-Dichloroethane	10K0256			ug/kg wet	N/A	25	<25							
1,2-Dichloroethane	10K0256			ug/kg wet	N/A	25	<25							
1,1-Dichloroethene	10K0256			ug/kg wet	N/A	25	<25							
cis-1,2-Dichloroethene	10K0256			ug/kg wet	N/A	25	<25							
trans-1,2-Dichloroethene	10K0256			ug/kg wet	N/A	25	<25							
1,2-Dichloropropane	10K0256			ug/kg wet	N/A	25	<25							
1,3-Dichloropropane	10K0256			ug/kg wet	N/A	25	<25							
2,2-Dichloropropane	10K0256			ug/kg wet	N/A	25	<25							
1,1-Dichloropropene	10K0256			ug/kg wet	N/A	25	<25							
cis-1,3-Dichloropropene	10K0256			ug/kg wet	N/A	25	<25							
trans-1,3-Dichloropropene	10K0256			ug/kg wet	N/A	25	<25							
2,3-Dichloropropene	10K0256			ug/kg wet	N/A	25	<25							
Isopropyl Ether	10K0256			ug/kg wet	N/A	25	<25							
Ethylbenzene	10K0256			ug/kg wet	N/A	25	<25							
Hexachlorobutadiene	10K0256			ug/kg wet	N/A	35	<35							
Isopropylbenzene	10K0256			ug/kg wet	N/A	25	<25							
p-Isopropyltoluene	10K0256			ug/kg wet	N/A	25	<25							
Methylene Chloride	10K0256			ug/kg wet	N/A	50	<50							
Methyl tert-Butyl Ether	10K0256			ug/kg wet	N/A	25	<25							
Naphthalene	10K0256			ug/kg wet	N/A	50	<50							
n-Propylbenzene	10K0256			ug/kg wet	N/A	25	<25							
Styrene	10K0256			ug/kg wet	N/A	50	<50							
1,1,1,2-Tetrachloroethane	10K0256			ug/kg wet	N/A	25	<25							
1,1,2,2-Tetrachloroethane	10K0256			ug/kg wet	N/A	25	<25							
Tetrachloroethene	10K0256			ug/kg wet	N/A	25	<25							
Toluene	10K0256			ug/kg wet	N/A	25	<25							
1,2,3-Trichlorobenzene	10K0256			ug/kg wet	N/A	25	<25							
1,2,4-Trichlorobenzene	10K0256			ug/kg wet	N/A	25	<25							
1,1,1-Trichloroethane	10K0256			ug/kg wet	N/A	25	<25							
1,1,2-Trichloroethane	10K0256			ug/kg wet	N/A	35	<35							
Trichloroethene	10K0256			ug/kg wet	N/A	25	<25							

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 Reported: 12/03/10 15:37

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
Trichlorofluoromethane	10K0256			ug/kg wet	N/A	25	<25							
1,2,3-Trichloropropane	10K0256			ug/kg wet	N/A	50	<50							
1,2,4-Trimethylbenzene	10K0256			ug/kg wet	N/A	25	<25							
1,3,5-Trimethylbenzene	10K0256			ug/kg wet	N/A	25	<25							
Vinyl chloride	10K0256			ug/kg wet	N/A	35	<35							
Xylenes, total	10K0256			ug/kg wet	N/A	85	<85							
Surrogate: Dibromofluoromethane	10K0256			ug/kg wet						102		80-120		
Surrogate: Toluene-d8	10K0256			ug/kg wet						99		80-120		
Surrogate: 4-Bromofluorobenzene	10K0256			ug/kg wet						103		80-120		
Pentafluorobenzene	10K0256		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
1,4-Difluorobenzene	10K0256		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
Chlorobenzene-d5	10K0256		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
1,4-Dichlorobenzene-d4	10K0256		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
Benzene	10K0279			ug/kg wet	N/A	25	<25							
Bromobenzene	10K0279			ug/kg wet	N/A	25	<25							
Bromochloromethane	10K0279			ug/kg wet	N/A	35	<35							
Bromodichloromethane	10K0279			ug/kg wet	N/A	25	<25							
Bromoform	10K0279			ug/kg wet	N/A	25	<25							
Bromomethane	10K0279			ug/kg wet	N/A	100	<100							
n-Butylbenzene	10K0279			ug/kg wet	N/A	25	<25							
sec-Butylbenzene	10K0279			ug/kg wet	N/A	25	<25							
tert-Butylbenzene	10K0279			ug/kg wet	N/A	25	<25							
Carbon Tetrachloride	10K0279			ug/kg wet	N/A	25	<25							
Chlorobenzene	10K0279			ug/kg wet	N/A	25	<25							
Chlorodibromomethane	10K0279			ug/kg wet	N/A	25	<25							
Chloroethane	10K0279			ug/kg wet	N/A	50	<50							
Chloroform	10K0279			ug/kg wet	N/A	25	<25							
Chloromethane	10K0279			ug/kg wet	N/A	50	<50							
2-Chlorotoluene	10K0279			ug/kg wet	N/A	50	<50							
4-Chlorotoluene	10K0279			ug/kg wet	N/A	25	<25							
1,2-Dibromo-3-chloropropane	10K0279			ug/kg wet	N/A	50	<50							
1,2-Dibromoethane (EDB)	10K0279			ug/kg wet	N/A	25	<25							
Dibromomethane	10K0279			ug/kg wet	N/A	25	<25							
1,2-Dichlorobenzene	10K0279			ug/kg wet	N/A	25	<25							
1,3-Dichlorobenzene	10K0279			ug/kg wet	N/A	25	<25							
1,4-Dichlorobenzene	10K0279			ug/kg wet	N/A	25	<25							
Dichlorodifluoromethane	10K0279			ug/kg wet	N/A	50	<50							
1,1-Dichloroethane	10K0279			ug/kg wet	N/A	25	<25							
1,2-Dichloroethane	10K0279			ug/kg wet	N/A	25	<25							
1,1-Dichloroethene	10K0279			ug/kg wet	N/A	25	<25							
cis-1,2-Dichloroethene	10K0279			ug/kg wet	N/A	25	<25							
trans-1,2-Dichloroethene	10K0279			ug/kg wet	N/A	25	<25							
1,2-Dichloropropane	10K0279			ug/kg wet	N/A	25	<25							
1,3-Dichloropropane	10K0279			ug/kg wet	N/A	25	<25							

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
2,2-Dichloropropane	10K0279			ug/kg wet	N/A	25	<25							
1,1-Dichloropropene	10K0279			ug/kg wet	N/A	25	<25							
cis-1,3-Dichloropropene	10K0279			ug/kg wet	N/A	25	<25							
trans-1,3-Dichloropropene	10K0279			ug/kg wet	N/A	25	<25							
2,3-Dichloropropene	10K0279			ug/kg wet	N/A	25	<25							
Isopropyl Ether	10K0279			ug/kg wet	N/A	25	<25							
Ethylbenzene	10K0279			ug/kg wet	N/A	25	<25							
Hexachlorobutadiene	10K0279			ug/kg wet	N/A	35	<35							
Isopropylbenzene	10K0279			ug/kg wet	N/A	25	<25							
p-Isopropyltoluene	10K0279			ug/kg wet	N/A	25	<25							
Methylene Chloride	10K0279			ug/kg wet	N/A	50	<50							
Methyl tert-Butyl Ether	10K0279			ug/kg wet	N/A	25	<25							
Naphthalene	10K0279			ug/kg wet	N/A	50	<50							
n-Propylbenzene	10K0279			ug/kg wet	N/A	25	<25							
Styrene	10K0279			ug/kg wet	N/A	50	<50							
1,1,1,2-Tetrachloroethane	10K0279			ug/kg wet	N/A	25	<25							
1,1,2,2-Tetrachloroethane	10K0279			ug/kg wet	N/A	25	<25							
Tetrachloroethene	10K0279			ug/kg wet	N/A	25	<25							
Toluene	10K0279			ug/kg wet	N/A	25	<25							
1,2,3-Trichlorobenzene	10K0279			ug/kg wet	N/A	25	<25							
1,2,4-Trichlorobenzene	10K0279			ug/kg wet	N/A	25	<25							
1,1,1-Trichloroethane	10K0279			ug/kg wet	N/A	25	<25							
1,1,2-Trichloroethane	10K0279			ug/kg wet	N/A	35	<35							
Trichloroethene	10K0279			ug/kg wet	N/A	25	<25							
Trichlorofluoromethane	10K0279			ug/kg wet	N/A	25	<25							
1,2,3-Trichloropropane	10K0279			ug/kg wet	N/A	50	<50							
1,2,4-Trimethylbenzene	10K0279			ug/kg wet	N/A	25	<25							
1,3,5-Trimethylbenzene	10K0279			ug/kg wet	N/A	25	<25							
Vinyl chloride	10K0279			ug/kg wet	N/A	35	<35							
Xylenes, total	10K0279			ug/kg wet	N/A	85	<85							
<i>Surrogate: Dibromofluoromethane</i>	<i>10K0279</i>			ug/kg wet					<i>100</i>		<i>80-120</i>			
<i>Surrogate: Toluene-d8</i>	<i>10K0279</i>			ug/kg wet					<i>99</i>		<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>10K0279</i>			ug/kg wet					<i>101</i>		<i>80-120</i>			
Pentafluorobenzene	10K0279		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
1,4-Difluorobenzene	10K0279		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
Chlorobenzene-d5	10K0279		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
1,4-Dichlorobenzene-d4	10K0279		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
PNAs by SW8310														
Acenaphthene	10K0272			ug/kg wet	N/A	50	<50							
Acenaphthylene	10K0272			ug/kg wet	N/A	85	<85							
Anthracene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (a) anthracene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (b) fluoranthene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (k) fluoranthene	10K0272			ug/kg wet	N/A	5.0	<5.0							

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 Project Number: 60163491 Plant No. 9 Manitowoc,

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 Reported: 12/03/10 15:37

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
PNAs by SW8310														
Benzo (a) pyrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (g,h,i) perylene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Chrysene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Dibenzo (a,h) anthracene	10K0272			ug/kg wet	N/A	7.5	<7.5							
Fluoranthene	10K0272			ug/kg wet	N/A	10	<10							
Fluorene	10K0272			ug/kg wet	N/A	10	<10							
Indeno (1,2,3-cd) pyrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
1-Methylnaphthalene	10K0272			ug/kg wet	N/A	30	<30							
2-Methylnaphthalene	10K0272			ug/kg wet	N/A	30	<30							
Naphthalene	10K0272			ug/kg wet	N/A	30	<30							
Phenanthrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Pyrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Surrogate: 2-Fluorobiphenyl	10K0272			ug/kg wet					83		61-128			

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LABORATORY DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
General Chemistry Parameters													
QC Source Sample: WTK0162-04													
% Solids	10K0165	86.2		%	N/A	N/A	85.4				1	20	
QC Source Sample: WTK0163-20													
% Solids	10K0166	90.3		%	N/A	N/A	89.5				1	20	

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LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Metals														
Mercury	10K0170		0.25	mg/kg wet	N/A	0.010	0.241		96		76-133			
Aluminum	10K0243		100	mg/kg wet	N/A	2.5	95.1		95		85-115			
Antimony	10K0243		100	mg/kg wet	N/A	0.050	96.4		96		85-115			B
Arsenic	10K0243		100	mg/kg wet	N/A	2.5	96.4		96		85-115			
Barium	10K0243		50	mg/kg wet	N/A	0.11	47.5		95		85-115			
Beryllium	10K0243		50	mg/kg wet	N/A	0.011	48.9		98		85-115			
Cadmium	10K0243		50	mg/kg wet	N/A	0.10	48.6		97		85-115			
Calcium	10K0243		100	mg/kg wet	N/A	1.2	98.4		98		85-115			B
Chromium	10K0243		50	mg/kg wet	N/A	0.18	49.1		98		85-115			
Cobalt	10K0243		50	mg/kg wet	N/A	0.55	49.7		99		85-115			
Copper	10K0243		100	mg/kg wet	N/A	1.6	98.2		98		85-115			
Iron	10K0243		100	mg/kg wet	N/A	1.3	101		101		85-115			
Lead	10K0243		100	mg/kg wet	N/A	1.2	98.0		98		85-115			
Magnesium	10K0243		100	mg/kg wet	N/A	1.2	99.2		99		85-115			
Manganese	10K0243		50	mg/kg wet	N/A	0.080	49.4		99		85-115			
Nickel	10K0243		100	mg/kg wet	N/A	0.35	97.6		98		85-115			
Potassium	10K0243		200	mg/kg wet	N/A	1.7	189		95		85-115			
Selenium	10K0243		200	mg/kg wet	N/A	4.0	191		96		85-115			
Silver	10K0243		50	mg/kg wet	N/A	0.11	46.9		94		85-115			
Sodium	10K0243		150	mg/kg wet	N/A	0.88	144		96		85-115			
Thallium	10K0243		100	mg/kg wet	N/A	3.2	99.2		99		85-115			B
Vanadium	10K0243		50	mg/kg wet	N/A	0.13	49.5		99		80-120			
Zinc	10K0243		50	mg/kg wet	N/A	0.24	48.4		97		85-115			
Polychlorinated Biphenyls by EPA Method 8082														
PCB-1016	10K0308		0.25	mg/kg wet	N/A	0.025	0.31		122		75-125			
PCB-1221	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1232	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1242	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1248	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1254	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1260	10K0308		0.25	mg/kg wet	N/A	0.025	0.27		107		75-125			
Surrogate: Decachlorobiphenyl	10K0308			mg/kg wet					96		60-150			
Surrogate: Tetrachloro-meta-xylene	10K0308			mg/kg wet					113		60-150			
VOCs by SW8260B														
Benzene	10K0256		2500	ug/kg wet	N/A	25	2460		99		80-120		29	
Bromobenzene	10K0256		2500	ug/kg wet	N/A	25	2280		91		80-120		20	
Bromochloromethane	10K0256		2500	ug/kg wet	N/A	35	2570		103		80-120		20	
Bromodichloromethane	10K0256		2500	ug/kg wet	N/A	25	2360		94		80-120		20	
Bromoform	10K0256		2500	ug/kg wet	N/A	25	2220		89		80-120		20	
Bromomethane	10K0256		2500	ug/kg wet	N/A	100	2430		97		60-140		20	
n-Butylbenzene	10K0256		2500	ug/kg wet	N/A	25	2390		95		80-120		20	
sec-Butylbenzene	10K0256		2500	ug/kg wet	N/A	25	2370		95		80-120		20	
tert-Butylbenzene	10K0256		2500	ug/kg wet	N/A	25	2360		94		80-120		20	
Carbon Tetrachloride	10K0256		2500	ug/kg wet	N/A	25	2480		99		60-140		20	
Chlorobenzene	10K0256		2500	ug/kg wet	N/A	25	2400		96		80-120		17	
Chlorodibromomethane	10K0256		2500	ug/kg wet	N/A	25	2290		92		80-120		20	
Chloroethane	10K0256		2500	ug/kg wet	N/A	50	2330		93		60-140		20	

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LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
Chloroform	10K0256		2500	ug/kg wet	N/A	25	2540		102		80-120		20	
Chloromethane	10K0256		2500	ug/kg wet	N/A	50	2290		92		60-140		20	
2-Chlorotoluene	10K0256		2500	ug/kg wet	N/A	50	2340		94		80-120		20	
4-Chlorotoluene	10K0256		2500	ug/kg wet	N/A	25	2330		93		80-120		20	
1,2-Dibromo-3-chloropropane	10K0256		2500	ug/kg wet	N/A	50	2120		85		60-140		20	
1,2-Dibromoethane (EDB)	10K0256		2500	ug/kg wet	N/A	25	2390		96		80-120		20	
Dibromomethane	10K0256		2500	ug/kg wet	N/A	25	2480		99		80-120		20	
1,2-Dichlorobenzene	10K0256		2500	ug/kg wet	N/A	25	2350		94		80-120		20	
1,3-Dichlorobenzene	10K0256		2500	ug/kg wet	N/A	25	2350		94		80-120		20	
1,4-Dichlorobenzene	10K0256		2500	ug/kg wet	N/A	25	2330		93		80-120		20	
Dichlorodifluoromethane	10K0256		2500	ug/kg wet	N/A	50	2600		104		60-140		20	
1,1-Dichloroethane	10K0256		2500	ug/kg wet	N/A	25	2480		99		80-120		20	
1,2-Dichloroethane	10K0256		2500	ug/kg wet	N/A	25	2410		96		80-120		20	
1,1-Dichloroethene	10K0256		2500	ug/kg wet	N/A	25	2520		101		80-120		44	
cis-1,2-Dichloroethene	10K0256		2500	ug/kg wet	N/A	25	2580		103		80-120		20	
trans-1,2-Dichloroethene	10K0256		2500	ug/kg wet	N/A	25	2520		101		80-120		20	
1,2-Dichloropropane	10K0256		2500	ug/kg wet	N/A	25	2320		93		80-120		20	
1,3-Dichloropropane	10K0256		2500	ug/kg wet	N/A	25	2330		93		80-120		20	
2,2-Dichloropropane	10K0256		2500	ug/kg wet	N/A	25	2510		101		60-140		20	
1,1-Dichloropropene	10K0256		2500	ug/kg wet	N/A	25	2580		103		80-120		20	
cis-1,3-Dichloropropene	10K0256		2500	ug/kg wet	N/A	25	2350		94		80-120		20	
trans-1,3-Dichloropropene	10K0256		2500	ug/kg wet	N/A	25	2340		93		80-120		20	
Ethylbenzene	10K0256		2500	ug/kg wet	N/A	25	2380		95		80-120		17	
Hexachlorobutadiene	10K0256		2500	ug/kg wet	N/A	35	2370		95		60-140		20	
Isopropylbenzene	10K0256		2500	ug/kg wet	N/A	25	2410		97		80-120		20	
p-Isopropyltoluene	10K0256		2500	ug/kg wet	N/A	25	2390		95		80-120		20	
Methylene Chloride	10K0256		2500	ug/kg wet	N/A	50	2550		102		80-120		20	
Methyl tert-Butyl Ether	10K0256		2500	ug/kg wet	N/A	25	2570		103		80-120		36	
Naphthalene	10K0256		2500	ug/kg wet	N/A	50	2110		84		60-140		20	
n-Propylbenzene	10K0256		2500	ug/kg wet	N/A	25	2380		95		80-120		20	
Styrene	10K0256		2500	ug/kg wet	N/A	50	2390		96		80-120		20	
1,1,1,2-Tetrachloroethane	10K0256		2500	ug/kg wet	N/A	25	2340		93		80-120		20	
1,1,1,2-Tetrachloroethane	10K0256		2500	ug/kg wet	N/A	25	2300		92		80-120		20	
Tetrachloroethene	10K0256		2500	ug/kg wet	N/A	25	2500		100		80-120		20	
Toluene	10K0256		2500	ug/kg wet	N/A	25	2400		96		80-120		18	
1,2,3-Trichlorobenzene	10K0256		2500	ug/kg wet	N/A	25	2320		93		80-120		20	
1,2,4-Trichlorobenzene	10K0256		2500	ug/kg wet	N/A	25	2360		94		80-120		20	
1,1,1-Trichloroethane	10K0256		2500	ug/kg wet	N/A	25	2520		101		80-120		20	
1,1,2-Trichloroethane	10K0256		2500	ug/kg wet	N/A	35	2360		94		80-120		20	
Trichloroethene	10K0256		2500	ug/kg wet	N/A	25	2560		102		80-120		20	
Trichlorofluoromethane	10K0256		2500	ug/kg wet	N/A	25	2460		98		80-120		20	
1,2,3-Trichloropropane	10K0256		2500	ug/kg wet	N/A	50	2270		91		80-120		20	
1,2,4-Trimethylbenzene	10K0256		2500	ug/kg wet	N/A	25	2340		94		80-120		20	
1,3,5-Trimethylbenzene	10K0256		2500	ug/kg wet	N/A	25	2360		95		80-120		19	
Vinyl chloride	10K0256		2500	ug/kg wet	N/A	35	2600		104		80-120		20	

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LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
Xylenes, total	10K0256		7500	ug/kg wet	N/A	85	7200		96		80-120		17	
Surrogate: Dibromofluoromethane	10K0256			ug/kg wet					104		80-120			
Surrogate: Toluene-d8	10K0256			ug/kg wet					98		80-120			
Surrogate: 4-Bromofluorobenzene	10K0256			ug/kg wet					102		80-120			
Benzene	10K0279		2500	ug/kg wet	N/A	25	2420		97		80-120		29	
Bromobenzene	10K0279		2500	ug/kg wet	N/A	25	2300		92		80-120		20	
Bromochloromethane	10K0279		2500	ug/kg wet	N/A	35	2490		99		80-120		20	
Bromodichloromethane	10K0279		2500	ug/kg wet	N/A	25	2310		92		80-120		20	
Bromoform	10K0279		2500	ug/kg wet	N/A	25	2220		89		80-120		20	
Bromomethane	10K0279		2500	ug/kg wet	N/A	100	2360		94		60-140		20	
n-Butylbenzene	10K0279		2500	ug/kg wet	N/A	25	2410		96		80-120		20	
sec-Butylbenzene	10K0279		2500	ug/kg wet	N/A	25	2400		96		80-120		20	
tert-Butylbenzene	10K0279		2500	ug/kg wet	N/A	25	2370		95		80-120		20	
Carbon Tetrachloride	10K0279		2500	ug/kg wet	N/A	25	2440		98		60-140		20	
Chlorobenzene	10K0279		2500	ug/kg wet	N/A	25	2400		96		80-120		17	
Chlorodibromomethane	10K0279		2500	ug/kg wet	N/A	25	2290		92		80-120		20	
Chloroethane	10K0279		2500	ug/kg wet	N/A	50	2310		92		60-140		20	
Chloroform	10K0279		2500	ug/kg wet	N/A	25	2500		100		80-120		20	
Chloromethane	10K0279		2500	ug/kg wet	N/A	50	2250		90		60-140		20	
2-Chlorotoluene	10K0279		2500	ug/kg wet	N/A	50	2350		94		80-120		20	
4-Chlorotoluene	10K0279		2500	ug/kg wet	N/A	25	2300		92		80-120		20	
1,2-Dibromo-3-chloropropane	10K0279		2500	ug/kg wet	N/A	50	2180		87		60-140		20	
1,2-Dibromoethane (EDB)	10K0279		2500	ug/kg wet	N/A	25	2370		95		80-120		20	
Dibromomethane	10K0279		2500	ug/kg wet	N/A	25	2440		98		80-120		20	
1,2-Dichlorobenzene	10K0279		2500	ug/kg wet	N/A	25	2350		94		80-120		20	
1,3-Dichlorobenzene	10K0279		2500	ug/kg wet	N/A	25	2360		95		80-120		20	
1,4-Dichlorobenzene	10K0279		2500	ug/kg wet	N/A	25	2350		94		80-120		20	
Dichlorodifluoromethane	10K0279		2500	ug/kg wet	N/A	50	2550		102		60-140		20	
1,1-Dichloroethane	10K0279		2500	ug/kg wet	N/A	25	2430		97		80-120		20	
1,2-Dichloroethane	10K0279		2500	ug/kg wet	N/A	25	2370		95		80-120		20	
1,1-Dichloroethene	10K0279		2500	ug/kg wet	N/A	25	2500		100		80-120		44	
cis-1,2-Dichloroethene	10K0279		2500	ug/kg wet	N/A	25	2570		103		80-120		20	
trans-1,2-Dichloroethene	10K0279		2500	ug/kg wet	N/A	25	2500		100		80-120		20	
1,2-Dichloropropane	10K0279		2500	ug/kg wet	N/A	25	2270		91		80-120		20	
1,3-Dichloropropane	10K0279		2500	ug/kg wet	N/A	25	2280		91		80-120		20	
2,2-Dichloropropane	10K0279		2500	ug/kg wet	N/A	25	2460		98		60-140		20	
1,1-Dichloropropene	10K0279		2500	ug/kg wet	N/A	25	2530		101		80-120		20	
cis-1,3-Dichloropropene	10K0279		2500	ug/kg wet	N/A	25	2320		93		80-120		20	
trans-1,3-Dichloropropene	10K0279		2500	ug/kg wet	N/A	25	2280		91		80-120		20	
Ethylbenzene	10K0279		2500	ug/kg wet	N/A	25	2360		94		80-120		17	
Hexachlorobutadiene	10K0279		2500	ug/kg wet	N/A	35	2400		96		60-140		20	
Isopropylbenzene	10K0279		2500	ug/kg wet	N/A	25	2370		95		80-120		20	
p-Isopropyltoluene	10K0279		2500	ug/kg wet	N/A	25	2400		96		80-120		20	
Methylene Chloride	10K0279		2500	ug/kg wet	N/A	50	2510		100		80-120		20	

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VOCs by SW8260B														
Methyl tert-Butyl Ether	10K0279		2500	ug/kg wet	N/A	25	2490		100		80-120		36	
Naphthalene	10K0279		2500	ug/kg wet	N/A	50	2120		85		60-140		20	
n-Propylbenzene	10K0279		2500	ug/kg wet	N/A	25	2390		95		80-120		20	
Styrene	10K0279		2500	ug/kg wet	N/A	50	2350		94		80-120		20	
1,1,1,2-Tetrachloroethane	10K0279		2500	ug/kg wet	N/A	25	2320		93		80-120		20	
1,1,2,2-Tetrachloroethane	10K0279		2500	ug/kg wet	N/A	25	2240		90		80-120		20	
Tetrachloroethene	10K0279		2500	ug/kg wet	N/A	25	2500		100		80-120		20	
Toluene	10K0279		2500	ug/kg wet	N/A	25	2390		96		80-120		18	
1,2,3-Trichlorobenzene	10K0279		2500	ug/kg wet	N/A	25	2330		93		80-120		20	
1,2,4-Trichlorobenzene	10K0279		2500	ug/kg wet	N/A	25	2350		94		80-120		20	
1,1,1-Trichloroethane	10K0279		2500	ug/kg wet	N/A	25	2500		100		80-120		20	
1,1,2-Trichloroethane	10K0279		2500	ug/kg wet	N/A	35	2320		93		80-120		20	
Trichloroethene	10K0279		2500	ug/kg wet	N/A	25	2520		101		80-120		20	
Trichlorofluoromethane	10K0279		2500	ug/kg wet	N/A	25	2430		97		80-120		20	
1,2,3-Trichloropropane	10K0279		2500	ug/kg wet	N/A	50	2230		89		80-120		20	
1,2,4-Trimethylbenzene	10K0279		2500	ug/kg wet	N/A	25	2360		94		80-120		20	
1,3,5-Trimethylbenzene	10K0279		2500	ug/kg wet	N/A	25	2400		96		80-120		19	
Vinyl chloride	10K0279		2500	ug/kg wet	N/A	35	2550		102		80-120		20	
Xylenes, total	10K0279		7500	ug/kg wet	N/A	85	7140		95		80-120		17	
<i>Surrogate: Dibromofluoromethane</i>	<i>10K0279</i>			ug/kg wet					<i>102</i>		<i>80-120</i>			
<i>Surrogate: Toluene-d8</i>	<i>10K0279</i>			ug/kg wet					<i>98</i>		<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>10K0279</i>			ug/kg wet					<i>100</i>		<i>80-120</i>			
PNAs by SW8310														
Acenaphthene	10K0272		1000	ug/kg wet	N/A	50	781		78		72-114			
Acenaphthylene	10K0272		2000	ug/kg wet	N/A	85	1650		83		74-117			
Anthracene	10K0272		100	ug/kg wet	N/A	5.0	81.8		82		67-124			
Benzo (a) anthracene	10K0272		100	ug/kg wet	N/A	5.0	100		100		76-119			
Benzo (b) fluoranthene	10K0272		200	ug/kg wet	N/A	5.0	177		88		87-132			
Benzo (k) fluoranthene	10K0272		100	ug/kg wet	N/A	5.0	95.3		95		86-132			
Benzo (a) pyrene	10K0272		100	ug/kg wet	N/A	5.0	80.5		81		62-125			
Benzo (g,h,i) perylene	10K0272		200	ug/kg wet	N/A	5.0	180		90		80-128			
Chrysene	10K0272		100	ug/kg wet	N/A	5.0	96.9		97		80-121			
Dibenzo (a,h) anthracene	10K0272		200	ug/kg wet	N/A	7.5	233		116		87-128			
Fluoranthene	10K0272		200	ug/kg wet	N/A	10	180		90		78-129			
Fluorene	10K0272		200	ug/kg wet	N/A	10	207		104		64-122			
Indeno (1,2,3-cd) pyrene	10K0272		100	ug/kg wet	N/A	5.0	81.0		81		80-125			
1-Methylnaphthalene	10K0272		1000	ug/kg wet	N/A	30	793		79		72-115			
2-Methylnaphthalene	10K0272		1000	ug/kg wet	N/A	30	755		75		59-114			
Naphthalene	10K0272		1000	ug/kg wet	N/A	30	796		80		72-111			
Phenanthrene	10K0272		100	ug/kg wet	N/A	5.0	87.8		88		78-132			
Pyrene	10K0272		100	ug/kg wet	N/A	5.0	107		107		75-122			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>10K0272</i>			ug/kg wet					<i>90</i>		<i>61-128</i>			

Advanced Environmental Solutions, Inc.
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Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Metals														
QC Source Sample: WTK0162-04														
Mercury	10K0170	0.0224	0.29	mg/kg dry	N/A	0.012	0.313	0.308	100	98	56-140	2	24	
Polychlorinated Biphenyls by EPA Method 8082														
QC Source Sample: WTK0161-02														
PCB-1016	10K0308	<0.033	0.30	mg/kg dry	N/A	0.030	0.35	0.37	116	122	70-130	5	20	
PCB-1221	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1232	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1242	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1248	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1254	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1260	10K0308	<0.033	0.30	mg/kg dry	N/A	0.030	0.28	0.28	91	93	70-130	1	20	
Surrogate: Decachlorobiphenyl	10K0308			mg/kg dry					83	85	10-177			
Surrogate: Tetrachloro-meta-xylene	10K0308			mg/kg dry					105	111	11-150			
VOCs by SW8260B														
QC Source Sample: WTK0162-23														
Benzene	10K0256	<25	2800	ug/kg dry	N/A	28	2830	2870	99	101	80-120	2	20	
Bromochloromethane	10K0256	<35	2800	ug/kg dry	N/A	40	2890	3060	102	108	80-120	6	20	
Bromodichloromethane	10K0256	<25	2800	ug/kg dry	N/A	28	2680	2780	94	98	80-120	4	20	
Bromoform	10K0256	<25	2800	ug/kg dry	N/A	28	2550	2670	90	94	80-120	4	20	
Bromomethane	10K0256	<100	2800	ug/kg dry	N/A	110	2870	2900	101	102	60-140	1	20	
n-Butylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2780	2670	98	94	80-120	4	20	
sec-Butylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2770	2660	97	93	80-120	4	20	
tert-Butylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2730	2640	96	93	80-120	3	20	
Carbon Tetrachloride	10K0256	<25	2800	ug/kg dry	N/A	28	2830	2770	99	97	60-140	2	20	
Chlorobenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2740	2750	96	97	80-120	0	20	
Chlorodibromomethane	10K0256	<25	2800	ug/kg dry	N/A	28	2630	2710	92	95	80-120	3	20	
Chloroethane	10K0256	<50	2800	ug/kg dry	N/A	57	2670	2670	94	94	60-140	0	20	
Chloroform	10K0256	<25	2800	ug/kg dry	N/A	28	2890	2980	102	105	80-120	3	20	
Chloromethane	10K0256	<50	2800	ug/kg dry	N/A	57	2550	2580	89	91	60-140	1	20	
2-Chlorotoluene	10K0256	<50	2800	ug/kg dry	N/A	57	2730	2610	96	92	80-120	4	20	
4-Chlorotoluene	10K0256	<25	2800	ug/kg dry	N/A	28	2660	2600	94	91	80-120	3	20	
1,2-Dibromo-3-chloropropane	10K0256	<50	2800	ug/kg dry	N/A	57	2460	2540	86	89	60-140	3	20	
1,2-Dibromoethane (EDB)	10K0256	<25	2800	ug/kg dry	N/A	28	2680	2790	94	98	80-120	4	20	
Dibromomethane	10K0256	<25	2800	ug/kg dry	N/A	28	2770	2960	97	104	80-120	7	20	
1,2-Dichlorobenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2700	2680	95	94	80-120	1	20	
1,3-Dichlorobenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2720	2670	96	94	80-120	2	20	
1,4-Dichlorobenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2690	2670	94	94	80-120	1	20	
Dichlorodifluoromethane	10K0256	<50	2800	ug/kg dry	N/A	57	2770	2750	97	97	60-140	1	20	
1,1-Dichloroethane	10K0256	<25	2800	ug/kg dry	N/A	28	2800	2890	98	101	80-120	3	20	
1,2-Dichloroethane	10K0256	<25	2800	ug/kg dry	N/A	28	2680	2890	94	102	80-120	8	20	
1,1-Dichloroethene	10K0256	<25	2800	ug/kg dry	N/A	28	2890	2920	102	103	80-120	1	20	
cis-1,2-Dichloroethene	10K0256	<25	2800	ug/kg dry	N/A	28	2990	3070	105	108	80-120	3	20	
trans-1,2-Dichloroethene	10K0256	<25	2800	ug/kg dry	N/A	28	2890	2920	102	103	80-120	1	20	
1,2-Dichloropropane	10K0256	<25	2800	ug/kg dry	N/A	28	2730	2800	96	98	80-120	2	20	
1,3-Dichloropropane	10K0256	<25	2800	ug/kg dry	N/A	28	2640	2700	93	95	80-120	2	20	
2,2-Dichloropropane	10K0256	<25	2800	ug/kg dry	N/A	28	2840	2910	100	102	60-140	2	20	
1,1-Dichloropropene	10K0256	<25	2800	ug/kg dry	N/A	28	2920	2940	103	103	80-120	1	20	

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Reported: 12/03/10 15:37

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
VOCs by SW8260B														
QC Source Sample: WTK0162-23														
cis-1,3-Dichloropropene	10K0256	<25	2800	ug/kg dry	N/A	28	2720	2810	96	99	80-120	3	20	
trans-1,3-Dichloropropene	10K0256	<25	2800	ug/kg dry	N/A	28	2630	2750	92	97	80-120	5	20	
Ethylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2740	2720	96	96	80-120	1	20	
Hexachlorobutadiene	10K0256	<35	2800	ug/kg dry	N/A	40	2780	2640	98	93	60-140	5	20	
Isopropylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2770	2730	97	96	80-120	1	20	
p-Isopropyltoluene	10K0256	<25	2800	ug/kg dry	N/A	28	2790	2680	98	94	80-120	4	20	
Methylene Chloride	10K0256	<50	2800	ug/kg dry	N/A	57	2870	3060	101	107	80-120	6	20	
Methyl tert-Butyl Ether	10K0256	<25	2800	ug/kg dry	N/A	28	2790	3040	98	107	80-120	9	20	
Naphthalene	10K0256	<50	2800	ug/kg dry	N/A	57	2450	2510	86	88	60-140	2	20	
n-Propylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2750	2640	97	93	80-120	4	20	
Styrene	10K0256	<50	2800	ug/kg dry	N/A	57	2740	2770	96	97	80-120	1	20	
1,1,1,2-Tetrachloroethane	10K0256	<25	2800	ug/kg dry	N/A	28	2700	2700	95	95	80-120	0	20	
1,1,2,2-Tetrachloroethane	10K0256	<25	2800	ug/kg dry	N/A	28	2600	2580	91	91	80-120	0	20	
Tetrachloroethene	10K0256	<25	2800	ug/kg dry	N/A	28	2890	2840	101	100	80-120	2	20	
Toluene	10K0256	<25	2800	ug/kg dry	N/A	28	2770	2730	97	96	80-120	1	20	
1,2,3-Trichlorobenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2710	2700	95	95	80-120	0	20	
1,2,4-Trichlorobenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2770	2690	97	95	80-120	3	20	
1,1,1-Trichloroethane	10K0256	<25	2800	ug/kg dry	N/A	28	2900	2940	102	103	80-120	1	20	
1,1,2-Trichloroethane	10K0256	<35	2800	ug/kg dry	N/A	40	2680	2760	94	97	80-120	3	20	
Trichloroethene	10K0256	<25	2800	ug/kg dry	N/A	28	2910	2940	102	103	80-120	1	20	
Trichlorofluoromethane	10K0256	<25	2800	ug/kg dry	N/A	28	2880	2880	101	101	80-120	0	20	
1,2,3-Trichloropropane	10K0256	<50	2800	ug/kg dry	N/A	57	2490	2640	88	93	80-120	6	20	
1,2,4-Trimethylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2710	2650	95	93	80-120	2	20	
1,3,5-Trimethylbenzene	10K0256	<25	2800	ug/kg dry	N/A	28	2750	2690	97	94	80-120	3	20	
Vinyl chloride	10K0256	<35	2800	ug/kg dry	N/A	40	2780	2740	97	96	80-120	1	20	
Xylenes, total	10K0256	<85	8500	ug/kg dry	N/A	97	8300	8260	97	97	80-120	1	20	
Surrogate: Dibromofluoromethane	10K0256			ug/kg dry					104	107	80-120			
Surrogate: Toluene-d8	10K0256			ug/kg dry					99	97	80-120			
Surrogate: 4-Bromofluorobenzene	10K0256			ug/kg dry					101	102	80-120			
QC Source Sample: WTK0164-18														
Benzene	10K0279	<25	2700	ug/kg dry	N/A	30	3080	3010	112	110	80-120	2	20	
Bromochloromethane	10K0279	<35	2700	ug/kg dry	N/A	42	3030	3030	110	110	80-120	0	20	
Bromodichloromethane	10K0279	<25	2700	ug/kg dry	N/A	30	2880	2900	105	106	80-120	1	20	
Bromoform	10K0279	<25	2700	ug/kg dry	N/A	30	2750	2720	100	99	80-120	1	20	
Bromomethane	10K0279	<100	2700	ug/kg dry	N/A	120	3070	2900	112	106	60-140	6	20	
n-Butylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3130	2970	114	108	80-120	5	20	
sec-Butylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3130	2980	114	108	80-120	5	20	
tert-Butylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3070	2950	112	107	80-120	4	20	
Carbon Tetrachloride	10K0279	<25	2700	ug/kg dry	N/A	30	3180	3050	116	111	60-140	4	20	
Chlorobenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3000	2930	109	107	80-120	2	20	
Chlorodibromomethane	10K0279	<25	2700	ug/kg dry	N/A	30	2820	2810	103	102	80-120	0	20	
Chloroethane	10K0279	<50	2700	ug/kg dry	N/A	60	2890	2800	105	102	60-140	3	20	
Chloroform	10K0279	<25	2700	ug/kg dry	N/A	30	3060	3000	111	109	80-120	2	20	
Chloromethane	10K0279	<50	2700	ug/kg dry	N/A	60	2790	2690	102	98	60-140	4	20	
2-Chlorotoluene	10K0279	<50	2700	ug/kg dry	N/A	60	2960	2860	108	104	80-120	4	20	

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Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
QC Source Sample: WTK0164-18														
4-Chlorotoluene	10K0279	<25	2700	ug/kg dry	N/A	30	2900	2840	106	103	80-120	2	20	
1,2-Dibromo-3-chloropropane	10K0279	<50	2700	ug/kg dry	N/A	60	2600	2630	95	96	60-140	1	20	
1,2-Dibromoethane (EDB)	10K0279	<25	2700	ug/kg dry	N/A	30	2840	2840	103	103	80-120	0	20	
Dibromomethane	10K0279	<25	2700	ug/kg dry	N/A	30	2920	2980	106	109	80-120	2	20	
1,2-Dichlorobenzene	10K0279	<25	2700	ug/kg dry	N/A	30	2890	2840	105	103	80-120	2	20	
1,3-Dichlorobenzene	10K0279	<25	2700	ug/kg dry	N/A	30	2930	2900	107	105	80-120	1	20	
1,4-Dichlorobenzene	10K0279	<25	2700	ug/kg dry	N/A	30	2910	2860	106	104	80-120	2	20	
Dichlorodifluoromethane	10K0279	<50	2700	ug/kg dry	N/A	60	3060	2860	112	104	60-140	7	20	
1,1-Dichloroethane	10K0279	<25	2700	ug/kg dry	N/A	30	3030	2940	110	107	80-120	3	20	
1,2-Dichloroethane	10K0279	<25	2700	ug/kg dry	N/A	30	2840	2840	103	103	80-120	0	20	
1,1-Dichloroethene	10K0279	<25	2700	ug/kg dry	N/A	30	3210	3030	117	110	80-120	6	20	
cis-1,2-Dichloroethene	10K0279	<25	2700	ug/kg dry	N/A	30	3170	3120	115	113	80-120	2	20	
trans-1,2-Dichloroethene	10K0279	<25	2700	ug/kg dry	N/A	30	3210	3030	117	110	80-120	6	20	
1,2-Dichloropropane	10K0279	<25	2700	ug/kg dry	N/A	30	2920	2860	106	104	80-120	2	20	
1,3-Dichloropropane	10K0279	<25	2700	ug/kg dry	N/A	30	2790	2750	102	100	80-120	1	20	
2,2-Dichloropropane	10K0279	<25	2700	ug/kg dry	N/A	30	3120	2990	113	109	60-140	4	20	
1,1-Dichloropropene	10K0279	<25	2700	ug/kg dry	N/A	30	3220	3070	117	112	80-120	5	20	
cis-1,3-Dichloropropene	10K0279	<25	2700	ug/kg dry	N/A	30	2900	2860	106	104	80-120	2	20	
trans-1,3-Dichloropropene	10K0279	<25	2700	ug/kg dry	N/A	30	2780	2840	101	103	80-120	2	20	
Ethylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3060	2950	111	107	80-120	4	20	
Hexachlorobutadiene	10K0279	<35	2700	ug/kg dry	N/A	42	3130	3000	114	109	60-140	4	20	
Isopropylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3110	2950	113	107	80-120	5	20	
p-Isopropyltoluene	10K0279	<25	2700	ug/kg dry	N/A	30	3100	2980	113	108	80-120	4	20	
Methylene Chloride	10K0279	<50	2700	ug/kg dry	N/A	60	3070	3050	112	111	80-120	1	20	
Methyl tert-Butyl Ether	10K0279	<25	2700	ug/kg dry	N/A	30	2930	2910	107	106	80-120	1	20	
Naphthalene	10K0279	<50	2700	ug/kg dry	N/A	60	2630	2640	96	96	60-140	1	20	
n-Propylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3080	2970	112	108	80-120	4	20	
Styrene	10K0279	<50	2700	ug/kg dry	N/A	60	2990	2890	109	105	80-120	3	20	
1,1,1,2-Tetrachloroethane	10K0279	<25	2700	ug/kg dry	N/A	30	2900	2840	106	103	80-120	2	20	
1,1,2,2-Tetrachloroethane	10K0279	<25	2700	ug/kg dry	N/A	30	2800	2780	102	101	80-120	1	20	
Tetrachloroethene	10K0279	<25	2700	ug/kg dry	N/A	30	3220	3100	117	113	80-120	4	20	
Toluene	10K0279	<25	2700	ug/kg dry	N/A	30	3080	2930	112	107	80-120	5	20	
1,2,3-Trichlorobenzene	10K0279	<25	2700	ug/kg dry	N/A	30	2900	2880	106	105	80-120	1	20	
1,2,4-Trichlorobenzene	10K0279	<25	2700	ug/kg dry	N/A	30	2930	2900	107	106	80-120	1	20	
1,1,1-Trichloroethane	10K0279	<25	2700	ug/kg dry	N/A	30	3210	3080	117	112	80-120	4	20	
1,1,2-Trichloroethane	10K0279	<35	2700	ug/kg dry	N/A	42	2850	2830	104	103	80-120	1	20	
Trichloroethene	10K0279	<25	2700	ug/kg dry	N/A	30	3190	3100	116	113	80-120	3	20	
Trichlorofluoromethane	10K0279	<25	2700	ug/kg dry	N/A	30	3180	3060	116	111	80-120	4	20	
1,2,3-Trichloropropane	10K0279	<50	2700	ug/kg dry	N/A	60	2710	2690	99	98	80-120	1	20	
1,2,4-Trimethylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	2980	2910	108	106	80-120	2	20	
1,3,5-Trimethylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3030	2950	110	107	80-120	3	20	
Vinyl chloride	10K0279	<35	2700	ug/kg dry	N/A	42	3060	2920	111	106	80-120	5	20	
Xylenes, total	10K0279	<85	8200	ug/kg dry	N/A	100	9200	8830	112	107	80-120	4	20	
Surrogate: Dibromofluoromethane	10K0279			ug/kg dry					102	103	80-120			
Surrogate: Toluene-d8	10K0279			ug/kg dry					100	97	80-120			

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0163
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
 Reported: 12/03/10 15:37

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
QC Source Sample: WTK0164-18														
<i>Surrogate: 4-Bromofluorobenzene</i>														
	10K0279			ug/kg dry					102	100	80-120			
PNAs by SW8310														
QC Source Sample: WTK0164-19														
Acenaphthene	10K0272	0.00	1100	ug/kg dry	N/A	55	870		79		62-127			
Acenaphthylene	10K0272	0.00	2200	ug/kg dry	N/A	94	1870		85		68-122			
Anthracene	10K0272	0.00	110	ug/kg dry	N/A	5.5	91.9		83		50-138			
Benzo (a) anthracene	10K0272	0.00	110	ug/kg dry	N/A	5.5	113		102		45-153			
Benzo (b) fluoranthene	10K0272	0.00	220	ug/kg dry	N/A	5.5	197		89		69-149			
Benzo (k) fluoranthene	10K0272	0.00	110	ug/kg dry	N/A	5.5	119		108		66-153			
Benzo (a) pyrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	88.6		80		39-147			
Benzo (g,h,i) perylene	10K0272	0.00	220	ug/kg dry	N/A	5.5	197		89		63-152			
Chrysene	10K0272	0.00	110	ug/kg dry	N/A	5.5	108		97		53-149			
Dibenzo (a,h) anthracene	10K0272	0.00	220	ug/kg dry	N/A	8.3	242		110		81-134			
Fluoranthene	10K0272	0.00	220	ug/kg dry	N/A	11	207		94		62-143			
Fluorene	10K0272	0.00	220	ug/kg dry	N/A	11	226		103		51-133			
Indeno (1,2,3-cd) pyrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	86.7		79		55-151			
1-Methylnaphthalene	10K0272	0.00	1100	ug/kg dry	N/A	33	916		83		64-126			
2-Methylnaphthalene	10K0272	0.00	1100	ug/kg dry	N/A	33	873		79		44-131			
Naphthalene	10K0272	0.00	1100	ug/kg dry	N/A	33	880		80		60-125			
Phenanthrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	99.8		90		57-155			
Pyrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	105		95		47-147			
<i>Surrogate: 2-Fluorobiphenyl</i>	10K0272			ug/kg dry					92		55-120			

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0163
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/03/10
Reported: 12/03/10 15:37

CERTIFICATION SUMMARY

TestAmerica Watertown

Method	Matrix	Nelac	Wisconsin
SM 2540G	Solid/Soil	X	X
SW 6010B	Solid/Soil	X	X
SW 7471A	Solid/Soil	X	X
SW 8082	Solid/Soil	X	X
SW 8260B	Solid/Soil	X	X
SW 8310	Solid/Soil	X	X

Advanced Environmental Solutions, Inc.
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Work Order: WTK0163
Project: Former Mirro Plant
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Received: 11/03/10
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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- Z3** The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

ADDITIONAL COMMENTS

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

WTK0163

WTK016979

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Watertown Division
602 Commerce Drive
Watertown, WI 53094

Client #: _____

Client Name **AECOM**

Address: **558 N Main St**

City/State/Zip Code: **Oshkosh, WI 54901**

Project Manager: **Mr. Andrew Mott**

Telephone Number: **920 236 6713**

Sampler Name: (Print Name) **Heather Cleveland**

Sampler Signature: *Heather Cleveland*

E-mail address: **andrew.mott@aec.com**
heather.cleveland@aec.com

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Project Name: **Former Micro Plant #9**

Project #: **60163491**

Site/Location ID: **Manitowoc** State: **WI**

Report To: **Andrew Mott / Mike Bingham**

Invoice To: **Mike Bingham / AES**

Quote #: _____ PO#: _____

Analyze For: PAH, VOC, PCB, TAC

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix						Preservation & # of Containers				Other (Specify)	QC Deliverables	REMARKS	
					SL - Sludge	DW - Drinking Water	GW - Groundwater	S - Soil/Solid	WW - Wastewater	Specify Other	HNO ₃	HCl	NaOH	H ₂ SO ₄				Methanol
M13-SB-MN-20P-5-B	10/24/10	1630	G	N	S									2 IMP	1		X	on work order
M13-SB-30-2-A	10/24/10	1648												2 IMP	1		X	
M13-SB-30-2-A		1700												2 IMP	1		X	
M13-SB-30-9-10		1715												2 IMP	1		X	
M13-SB-40-3-4		1720												2 IMP	1		X	
M13-SB-40-5-8		1725												2 IMP	1		X	
M13-SB-40-15-12		1755												2 IMP	1		X	
M13-SB-50-2-4	10/27/10	1005												2	1		X	
M13-SB-50-9-5-12		1030												2	1		X	

Special Instructions: **Supply data package in accordance with the Former Micro Plant #9 QA/QC & QA PR.**

LABORATORY COMMENTS:
 Init Lab Temp: _____
 Rec Lab Temp: _____
 Custody Seals: Y N N/A
 Bottles Supplied by: TestAmerica: Y N
 Method of Shipment: **FedEx**

Relinquished By: <i>April Ed</i>	Date: 11/4	Time: 1400	Received By: <i>Mike</i>	Date: 11/13/10	Time: 1010
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Watertown Division
602 Commerce Drive
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

E-mail address: _____ PO#: _____

TAT
 Standard
 Rush (surcharges may apply)
 Date Needed: _____

Fax Results: Y N
 E-mail: Y N

Client Name: _____ Client #: _____

Address: _____
 City/State/Zip Code: _____

Project Manager: _____
 Telephone Number: _____

Sampler Name: (Print Name) Heather Cleveland
 Sampler Signature: [Signature]

Project Name: Former Miro Plant #9
 Project #: _____ State: _____
 Site/Location ID: _____
 Report To: See prev. page
 Invoice To: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Preservation & # of Containers						Other (Specify)	Analyze For:	QC Deliverables	REMARKS					
					Matrix	HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol					None				
MB-SB-5C 9.5-12 DUP	10/27/10	1035	G	N	SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WV - Wastewater Specify Other						2 IMP								
MB-SB-5E 14-15		1045									2 IMP								
MB-SB-7E 2-4		1430									2 IMP								
MB-SB-8E 2-4 DUP		1435									2 IMP								
MB-SB-7C 2-4		1435									1 IMP								
MB-SB-7C 5.5-8		1438									2 IMP								
MB-SB-7C 5.5-8		1440									1								
Trip Blank		1448																	
MB-SB-9C 5.5-8		1455									2 IMP								
MB-SB-7E 5.5-8 DUP		1500									1 IMP								

Special Instructions: See prev. page

LABORATORY COMMENTS:
 Init Lab Temp: _____
 Rec Lab Temp: _____
 Custody Seals: Y N
 Bottles Supplied by TestAmerica: Y N
 Method of Shipment: FedEx

Relinquished By: <u>[Signature]</u>	Date: <u>11/10</u>	Time: <u>1400</u>	Received By: <u>[Signature]</u>	Date: <u>11/10</u>	Time: <u>1810</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

TAL-0020 (1207)

WTK0163

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Watertown Division
602 Commerce Drive
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: _____ Client #: _____

Address: _____

City/State/Zip Code: _____

Project Manager: _____

Telephone Number: _____

Sampler Name: (Print Name) Weather Cleveland

Sampler Signature: [Signature]

Project Name: Former Mine Plant #9

Project #: _____

Site/Location ID: _____ State: _____

Report To: _____

Invoice To: See prev page

Quote #: _____ PO#: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix						Other (Specify)	Analyze For:	QC Deliverables	REMARKS	
					SL - Sludge DW - Drinking Water	GW - Groundwater S - Soil/Solid	WW - Wastewater	HNO ₃	HCl	NaOH					H ₂ SO ₄
MB-SB-90.5-8'	10/27/10	1505	G	N											
MB-SB-100.3-4'		1545													
MB-SB-100.3-4'		1550													
MB-SB-100.5-7.5'		1710													
MB-SB-100.5-7.5'		1715													
MB-SB-110.3-4'	10/28/10	0700													HOLD
MB-SB-110.3-4'		0905													HOLD
MB-SB-110.6-5-8'		1050													
MB-SB-110.6-5-8'		1055													
MB-SB-120.2-5-4'		1105													

Special Instructions: See prev. page

LABORATORY COMMENTS:

Init Lab Temp: _____

Rec Lab Temp: _____

Custody Seals: Y N

Bottles Supplied by TestAmerica: N/A N

Method of Shipment: FedEx

Relinquished By: <u>[Signature]</u>	Date: <u>11/2/10</u>	Time: _____	Received By: <u>[Signature]</u>	Date: <u>10/3/10</u>	Time: <u>6:10</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

Cooler Receipt Log

Work Order(s): WTK0163 Client Name/Project: AECOM # of Coolers: 1

1. How did samples arrive? Fed-Ex UPS TestAmerica Client Dunham Speedy _____

Date/time cooler was opened: 11/3/10 By: M. Pato TEMP. 0

2. Were custody seals intact, signed and dated correctly?..... Intact Broken NA
3. Were samples on ice?..... Yes No
4. Does this Project require quick turn around analysis?..... No Yes
5. Are there any short hold time tests? (48hrs or less) No Yes
- Past Hold?..... No Yes

48 hours or less	7 days
Coliform Bacteria 8/30 hours	Aqueous Organic Prep
Chlorine/Hex Cr 24 hours	TS
BOD	TDS
Nitrate/Nitrite (DW is 14 days)	TSS
Sulfite	Sulfide
Orthophosphate	Volatile Solids
Surfactants (MBAS)	

6. Ops Mgr, PM or Analyst informed of short hold?.....Who _____ When _____
7. Other than short hold test, were any samples within 2 days of their hold date No Yes
 Or past their expiration of hold time No Yes
8. Is the date and time of collection recorded? Date Yes No
 Time..... Yes No
9. Were all sample containers listed on the COC received and intact?..... Yes No
10. Do sample containers received and COC match?..... Yes No
11. Are dissolved parameters field filtered or being filtered in the lab?..... Field Lab NA
12. Are sample volumes adequate and preservatives correct for test requested? Vol..... Yes No
 Pres.... Yes No
13. Do VOC samples have air bubbles >6mm?..... No Yes NA
14. Is an aqueous Trip Blank included?..... Yes No NA
15. Are any samples on hold? No Yes
16. Are there samples to be subcontracted? No Yes
17. Is a Methanol Trip Blank included?..... Yes No NA
18. How were VOC soils received? Methanol Sodium Bisulfate Packed Jar Encore Other Water (see options*)
 * Within 48hrs of sampling Past 48hrs of sampling Frozen Not Frozen

If any changes are made to this Work Order after Login, or if comments must be made regarding this cooler, explain them below:

Run the "hold" samples per Andrew Met on 11/4/10

November 23, 2010

Client: Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608

Work Order: WTK0164
Project Name: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc, WI

Attn: Mr. Michael Bingham

Date Received: 11/04/10

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MB-SB-TW-4@3-4'	WTK0164-01	10/26/10 12:40
MB-SB-TW-4@3-4'	WTK0164-02	10/26/10 12:45
MB-SB-TW-1@2.5-4'	WTK0164-03	10/26/10 13:03
MB-SB-TW-1@6-8'	WTK0164-04	10/26/10 13:10
MB-SB-TW-2@8.5-9.5'	WTK0164-05	10/26/10 13:40
MB-SB-TW-2@2-3.5'	WTK0164-06	10/26/10 13:50
MB-SB-MW-18@3-4'	WTK0164-07	10/26/10 14:05
MB-SB-MW-18@3-4'	WTK0164-08	10/26/10 14:10
MB-SB-MW-18@3-4'	WTK0164-09	10/26/10 14:12
MB-SB-MW-18@6.5-8'	WTK0164-10	10/26/10 14:18
MB-SB-MW-18@6.5-8'	WTK0164-11	10/26/10 14:20
MB-SB-MW-18@6.5-8' DUP	WTK0164-12	10/26/10 14:23
MB-SB-MW-18@6.5-8'	WTK0164-13	10/26/10 14:23
MB-SB-MW-18@14-16'	WTK0164-14	10/26/10 14:30
MB-SB-MW-18@14-16' DUP	WTK0164-15	10/26/10 14:35
MB-SB-MW-20@2-4'	WTK0164-16	10/26/10 16:15
MB-SB-MW-20@2-4' DUP	WTK0164-17	10/26/10 16:20
MB-SB-MW-20@5-8'	WTK0164-18	10/26/10 16:25
MB-SB-MW-20@6.5-8'	WTK0164-19	10/26/10 16:30

Samples were received on ice into laboratory at a temperature of 0 °C.

Wisconsin Certification Number: 128053530

The Chain(s) of Custody, -1 pages, are included and are an integral part of this report.

Unless subcontracted, volatiles analyses (including VOC, P VOC, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.

Approved By:



TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-01 (MB-SB-TW-4@3-4' - Soil)					Sampled: 10/26/10 12:40				
General Chemistry Parameters									
% Solids	93		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
PNAs by SW8310									
Acenaphthene	<2700		ug/kg dry	2700	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Acenaphthylene	<4600		ug/kg dry	4600	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Anthracene	<270		ug/kg dry	270	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Benzo (a) anthracene	1900		ug/kg dry	270	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	1400		ug/kg dry	270	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	740		ug/kg dry	270	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Benzo (a) pyrene	1300		ug/kg dry	270	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	830		ug/kg dry	270	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Chrysene	1500		ug/kg dry	270	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	760		ug/kg dry	400	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Fluoranthene	3200		ug/kg dry	540	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Fluorene	<540		ug/kg dry	540	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	940		ug/kg dry	270	50	11/15/10 21:46	CLJ	10K0272	SW 8310
1-Methylnaphthalene	<1600		ug/kg dry	1600	50	11/15/10 21:46	CLJ	10K0272	SW 8310
2-Methylnaphthalene	1800		ug/kg dry	1600	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Naphthalene	<1600		ug/kg dry	1600	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Phenanthrene	270		ug/kg dry	270	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Pyrene	2200		ug/kg dry	270	50	11/15/10 21:46	CLJ	10K0272	SW 8310
Surr: 2-Fluorobiphenyl (61-128%)	0.00 %	Z3							
Sample ID: WTK0164-02 (MB-SB-TW-4@3-4' - Soil)					Sampled: 10/26/10 12:45				
General Chemistry Parameters									
% Solids	92		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
VOCs by SW8260B									
Benzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Bromobenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Bromochloromethane	<38		ug/kg dry	38	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Bromodichloromethane	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Bromoform	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Bromomethane	<110		ug/kg dry	110	1	11/10/10 14:24	LCK	10K0279	SW 8260B
n-Butylbenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
sec-Butylbenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
tert-Butylbenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Carbon Tetrachloride	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Chlorobenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Chlorodibromomethane	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Chloroethane	<54		ug/kg dry	54	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Chloroform	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Chloromethane	<54		ug/kg dry	54	1	11/10/10 14:24	LCK	10K0279	SW 8260B
2-Chlorotoluene	<54		ug/kg dry	54	1	11/10/10 14:24	LCK	10K0279	SW 8260B
4-Chlorotoluene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,2-Dibromo-3-chloropropane	<54		ug/kg dry	54	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,2-Dibromoethane (EDB)	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Dibromomethane	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,2-Dichlorobenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,3-Dichlorobenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,4-Dichlorobenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-02 (MB-SB-TW-4@3-4' - Soil) - cont.						Sampled: 10/26/10 12:45			
VOCs by SW8260B - cont.									
Dichlorodifluoromethane	<54		ug/kg dry	54	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,1-Dichloroethane	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,2-Dichloroethane	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,1-Dichloroethene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
cis-1,2-Dichloroethene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
trans-1,2-Dichloroethene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,2-Dichloropropane	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,3-Dichloropropane	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
2,2-Dichloropropane	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,1-Dichloropropene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
cis-1,3-Dichloropropene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
trans-1,3-Dichloropropene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
2,3-Dichloropropene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Isopropyl Ether	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Ethylbenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Hexachlorobutadiene	<38		ug/kg dry	38	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Isopropylbenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
p-Isopropyltoluene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Methylene Chloride	<54		ug/kg dry	54	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Methyl tert-Butyl Ether	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Naphthalene	76		ug/kg dry	54	1	11/10/10 14:24	LCK	10K0279	SW 8260B
n-Propylbenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Styrene	<54		ug/kg dry	54	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,1,1,2-Tetrachloroethane	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,1,2,2-Tetrachloroethane	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Tetrachloroethene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Toluene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,2,3-Trichlorobenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,2,4-Trichlorobenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,1,1-Trichloroethane	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,1,2-Trichloroethane	<38		ug/kg dry	38	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Trichloroethene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Trichlorofluoromethane	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,2,3-Trichloropropane	<54		ug/kg dry	54	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,2,4-Trimethylbenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
1,3,5-Trimethylbenzene	<27		ug/kg dry	27	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Vinyl chloride	<38		ug/kg dry	38	1	11/10/10 14:24	LCK	10K0279	SW 8260B
Xylenes, total	<92		ug/kg dry	92	1	11/10/10 14:24	LCK	10K0279	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>101 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>98 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>101 %</i>								

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0164
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-03 (MB-SB-TW-1@2.5-4' - Soil)					Sampled: 10/26/10 13:03				
General Chemistry Parameters									
% Solids	81		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
PNAs by SW8310									
Acenaphthene	<61		ug/kg dry	61	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Acenaphthylene	<100		ug/kg dry	100	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Anthracene	<6.1		ug/kg dry	6.1	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Benzo (a) anthracene	<6.1		ug/kg dry	6.1	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	<6.1		ug/kg dry	6.1	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	<6.1		ug/kg dry	6.1	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Benzo (a) pyrene	<6.1		ug/kg dry	6.1	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	<6.1		ug/kg dry	6.1	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Chrysene	<6.1		ug/kg dry	6.1	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	<9.2		ug/kg dry	9.2	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Fluoranthene	<12		ug/kg dry	12	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Fluorene	<12		ug/kg dry	12	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	<6.1		ug/kg dry	6.1	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
1-Methylnaphthalene	<37		ug/kg dry	37	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
2-Methylnaphthalene	<37		ug/kg dry	37	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Naphthalene	<37		ug/kg dry	37	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Phenanthrene	<6.1		ug/kg dry	6.1	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
Pyrene	<6.1		ug/kg dry	6.1	1.0	11/12/10 19:55	CLJ	10K0272	SW 8310
<i>Surr: 2-Fluorobiphenyl (61-128%)</i>	86 %								
Sample ID: WTK0164-04 (MB-SB-TW-1@6-8' - Soil)					Sampled: 10/26/10 13:10				
General Chemistry Parameters									
% Solids	86		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
VOCs by SW8260B									
Benzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Bromobenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Bromochloromethane	<41		ug/kg dry	41	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Bromodichloromethane	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Bromoform	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Bromomethane	<120		ug/kg dry	120	1	11/10/10 14:51	LCK	10K0279	SW 8260B
n-Butylbenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
sec-Butylbenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
tert-Butylbenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Carbon Tetrachloride	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Chlorobenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Chlorodibromomethane	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Chloroethane	<58		ug/kg dry	58	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Chloroform	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Chloromethane	<58		ug/kg dry	58	1	11/10/10 14:51	LCK	10K0279	SW 8260B
2-Chlorotoluene	<58		ug/kg dry	58	1	11/10/10 14:51	LCK	10K0279	SW 8260B
4-Chlorotoluene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,2-Dibromo-3-chloropropane	<58		ug/kg dry	58	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,2-Dibromoethane (EDB)	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Dibromomethane	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,2-Dichlorobenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,3-Dichlorobenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,4-Dichlorobenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Dichlorodifluoromethane	<58		ug/kg dry	58	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,1-Dichloroethane	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-04 (MB-SB-TW-1@6-8' - Soil) - cont.						Sampled: 10/26/10 13:10			
VOCs by SW8260B - cont.									
1,2-Dichloroethane	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,1-Dichloroethene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
cis-1,2-Dichloroethene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
trans-1,2-Dichloroethene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,2-Dichloropropane	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,3-Dichloropropane	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
2,2-Dichloropropane	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,1-Dichloropropene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
cis-1,3-Dichloropropene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
trans-1,3-Dichloropropene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
2,3-Dichloropropene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Isopropyl Ether	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Ethylbenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Hexachlorobutadiene	<41		ug/kg dry	41	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Isopropylbenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
p-Isopropyltoluene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Methylene Chloride	<58		ug/kg dry	58	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Methyl tert-Butyl Ether	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Naphthalene	<58		ug/kg dry	58	1	11/10/10 14:51	LCK	10K0279	SW 8260B
n-Propylbenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Styrene	<58		ug/kg dry	58	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,1,1,2-Tetrachloroethane	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,1,2,2-Tetrachloroethane	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Tetrachloroethene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Toluene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,2,3-Trichlorobenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,2,4-Trichlorobenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,1,1-Trichloroethane	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,1,2-Trichloroethane	<41		ug/kg dry	41	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Trichloroethene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Trichlorofluoromethane	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,2,3-Trichloropropane	<58		ug/kg dry	58	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,2,4-Trimethylbenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
1,3,5-Trimethylbenzene	<29		ug/kg dry	29	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Vinyl chloride	<41		ug/kg dry	41	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Xylenes, total	<99		ug/kg dry	99	1	11/10/10 14:51	LCK	10K0279	SW 8260B
Surr: Dibromofluoromethane (80-120%)	103 %								
Surr: Toluene-d8 (80-120%)	96 %								
Surr: 4-Bromofluorobenzene (80-120%)	102 %								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-05 (MB-SB-TW-2@8.5-9.5' - Soil)						Sampled: 10/26/10 13:40			
General Chemistry Parameters									
% Solids	84		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Bromochloromethane	<41		ug/kg dry	41	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Bromoform	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Bromomethane	<120		ug/kg dry	120	1	11/10/10 15:18	LCK	10K0279	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Chloroethane	<59		ug/kg dry	59	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Chloroform	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Chloromethane	<59		ug/kg dry	59	1	11/10/10 15:18	LCK	10K0279	SW 8260B
2-Chlorotoluene	<59		ug/kg dry	59	1	11/10/10 15:18	LCK	10K0279	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,2-Dibromo-3-chloropropane	<59		ug/kg dry	59	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,3-Dichlorobenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Dichlorodifluoromethane	<59		ug/kg dry	59	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
2,2-Dichloropropane	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
2,3-Dichloropropene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Hexachlorobutadiene	<41		ug/kg dry	41	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Methylene Chloride	<59		ug/kg dry	59	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Naphthalene	<59		ug/kg dry	59	1	11/10/10 15:18	LCK	10K0279	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Styrene	<59		ug/kg dry	59	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Tetrachloroethene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-05 (MB-SB-TW-2@8.5-9.5' - Soil) - cont.						Sampled: 10/26/10 13:40			
VOCs by SW8260B - cont.									
Toluene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,1,2-Trichloroethane	<41		ug/kg dry	41	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Trichloroethene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,2,3-Trichloropropane	<59		ug/kg dry	59	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,2,4-Trimethylbenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
1,3,5-Trimethylbenzene	<30		ug/kg dry	30	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Vinyl chloride	<41		ug/kg dry	41	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1	11/10/10 15:18	LCK	10K0279	SW 8260B
Surr: Dibromofluoromethane (80-120%)	104 %								
Surr: Toluene-d8 (80-120%)	97 %								
Surr: 4-Bromofluorobenzene (80-120%)	101 %								

Sample ID: WTK0164-06 (MB-SB-TW-2@2-3.5' - Soil)						Sampled: 10/26/10 13:50			
General Chemistry Parameters									
% Solids	93		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
PNAs by SW8310									
Acenaphthene	<540		ug/kg dry	540	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Acenaphthylene	<910		ug/kg dry	910	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Anthracene	100		ug/kg dry	54	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Benzo (a) anthracene	2400		ug/kg dry	54	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	120		ug/kg dry	54	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	120		ug/kg dry	54	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Benzo (a) pyrene	350		ug/kg dry	54	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	300		ug/kg dry	54	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Chrysene	830		ug/kg dry	54	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	620		ug/kg dry	81	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Fluoranthene	3000		ug/kg dry	110	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Fluorene	660		ug/kg dry	110	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	330		ug/kg dry	54	10	11/15/10 19:20	CLJ	10K0272	SW 8310
1-Methylnaphthalene	400		ug/kg dry	320	10	11/15/10 19:20	CLJ	10K0272	SW 8310
2-Methylnaphthalene	1100		ug/kg dry	320	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Naphthalene	<320		ug/kg dry	320	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Phenanthrene	370		ug/kg dry	54	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Pyrene	3600		ug/kg dry	54	10	11/15/10 19:20	CLJ	10K0272	SW 8310
Surr: 2-Fluorobiphenyl (61-128%)	0.00 %								Z3

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-07 (MB-SB-MW-18@3-4' - Soil)						Sampled: 10/26/10 14:05			
General Chemistry Parameters									
% Solids	94		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
VOCs by SW8260B									
Benzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Bromobenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Bromochloromethane	<37		ug/kg dry	37	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Bromodichloromethane	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Bromoform	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Bromomethane	<110		ug/kg dry	110	1	11/10/10 15:45	LCK	10K0279	SW 8260B
n-Butylbenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
sec-Butylbenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
tert-Butylbenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Carbon Tetrachloride	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Chlorobenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Chlorodibromomethane	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Chloroethane	<53		ug/kg dry	53	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Chloroform	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Chloromethane	<53		ug/kg dry	53	1	11/10/10 15:45	LCK	10K0279	SW 8260B
2-Chlorotoluene	<53		ug/kg dry	53	1	11/10/10 15:45	LCK	10K0279	SW 8260B
4-Chlorotoluene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,2-Dibromo-3-chloropropane	<53		ug/kg dry	53	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,2-Dibromoethane (EDB)	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Dibromomethane	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,2-Dichlorobenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,3-Dichlorobenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,4-Dichlorobenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Dichlorodifluoromethane	<53		ug/kg dry	53	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,1-Dichloroethane	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,2-Dichloroethane	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,1-Dichloroethene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
cis-1,2-Dichloroethene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
trans-1,2-Dichloroethene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,2-Dichloropropane	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,3-Dichloropropane	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
2,2-Dichloropropane	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,1-Dichloropropene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
cis-1,3-Dichloropropene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
trans-1,3-Dichloropropene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
2,3-Dichloropropene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Isopropyl Ether	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Ethylbenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Hexachlorobutadiene	<37		ug/kg dry	37	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Isopropylbenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
p-Isopropyltoluene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Methylene Chloride	<53		ug/kg dry	53	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Methyl tert-Butyl Ether	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Naphthalene	<53		ug/kg dry	53	1	11/10/10 15:45	LCK	10K0279	SW 8260B
n-Propylbenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Styrene	<53		ug/kg dry	53	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,1,1,2-Tetrachloroethane	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,1,1,2,2-Tetrachloroethane	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Tetrachloroethene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0164
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-07 (MB-SB-MW-18@3-4' - Soil) - cont.						Sampled: 10/26/10 14:05			
VOCs by SW8260B - cont.									
Toluene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,2,3-Trichlorobenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,2,4-Trichlorobenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,1,1-Trichloroethane	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,1,2-Trichloroethane	<37		ug/kg dry	37	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Trichloroethene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Trichlorofluoromethane	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,2,3-Trichloropropane	<53		ug/kg dry	53	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,2,4-Trimethylbenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
1,3,5-Trimethylbenzene	<27		ug/kg dry	27	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Vinyl chloride	<37		ug/kg dry	37	1	11/10/10 15:45	LCK	10K0279	SW 8260B
Xylenes, total	<90		ug/kg dry	90	1	11/10/10 15:45	LCK	10K0279	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	102 %								
<i>Surr: Toluene-d8 (80-120%)</i>	98 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	103 %								

Sample ID: WTK0164-08 (MB-SB-MW-18@3-4' - Soil)						Sampled: 10/26/10 14:10			
General Chemistry Parameters									
% Solids	94		%	NA	1	11/05/10 09:22	kjk	10K0166	SM 2540G
PNAs by SW8310									
Acenaphthene	<53		ug/kg dry	53	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Acenaphthylene	<90		ug/kg dry	90	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Anthracene	<5.3		ug/kg dry	5.3	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Benzo (a) anthracene	<5.3		ug/kg dry	5.3	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	<5.3		ug/kg dry	5.3	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	<5.3		ug/kg dry	5.3	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Benzo (a) pyrene	<5.3		ug/kg dry	5.3	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	<5.3		ug/kg dry	5.3	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Chrysene	<5.3		ug/kg dry	5.3	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	<8.0		ug/kg dry	8.0	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Fluoranthene	<11		ug/kg dry	11	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Fluorene	<11		ug/kg dry	11	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	<5.3		ug/kg dry	5.3	1	11/12/10 20:15	CLJ	10K0272	SW 8310
1-Methylnaphthalene	<32		ug/kg dry	32	1	11/12/10 20:15	CLJ	10K0272	SW 8310
2-Methylnaphthalene	<32		ug/kg dry	32	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Naphthalene	<32		ug/kg dry	32	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Phenanthrene	<5.3		ug/kg dry	5.3	1	11/12/10 20:15	CLJ	10K0272	SW 8310
Pyrene	<5.3		ug/kg dry	5.3	1	11/12/10 20:15	CLJ	10K0272	SW 8310
<i>Surr: 2-Fluorobiphenyl (61-128%)</i>	88 %								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-09 (MB-SB-MW-18@3-4' - Soil)					Sampled: 10/26/10 14:12				
General Chemistry Parameters									
% Solids	93		%	NA	1	11/09/10 08:06	kjk	10K0257	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<0.027		mg/kg dry	0.027	0.8	11/18/10 17:15	CLJ	10K0308	SW 8082
PCB-1221	<0.027		mg/kg dry	0.027	0.8	11/18/10 17:15	CLJ	10K0308	SW 8082
PCB-1232	<0.027		mg/kg dry	0.027	0.8	11/18/10 17:15	CLJ	10K0308	SW 8082
PCB-1242	<0.027		mg/kg dry	0.027	0.8	11/18/10 17:15	CLJ	10K0308	SW 8082
PCB-1248	<0.027		mg/kg dry	0.027	0.8	11/18/10 17:15	CLJ	10K0308	SW 8082
PCB-1254	<0.027		mg/kg dry	0.027	0.8	11/18/10 17:15	CLJ	10K0308	SW 8082
PCB-1260	<0.027		mg/kg dry	0.027	0.8	11/18/10 17:15	CLJ	10K0308	SW 8082
Surr: Decachlorobiphenyl (10-177%)	96 %								
Surr: Tetrachloro-meta-xylene (11-150%)	110 %								
Sample ID: WTK0164-10 (MB-SB-MW-18@6.5-8' - Soil)					Sampled: 10/26/10 14:18				
General Chemistry Parameters									
% Solids	94		%	NA	1	11/09/10 08:06	kjk	10K0257	SM 2540G
VOCs by SW8260B									
Benzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Bromobenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Bromochloromethane	<41		ug/kg dry	41	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Bromodichloromethane	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Bromoform	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Bromomethane	<120		ug/kg dry	120	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
n-Butylbenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
sec-Butylbenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
tert-Butylbenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Carbon Tetrachloride	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Chlorobenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Chlorodibromomethane	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Chloroethane	<58		ug/kg dry	58	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Chloroform	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Chloromethane	<58		ug/kg dry	58	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
2-Chlorotoluene	<58		ug/kg dry	58	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
4-Chlorotoluene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,2-Dibromo-3-chloropropane	<58		ug/kg dry	58	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,2-Dibromoethane (EDB)	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Dibromomethane	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,2-Dichlorobenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,3-Dichlorobenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,4-Dichlorobenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Dichlorodifluoromethane	<58		ug/kg dry	58	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,1-Dichloroethane	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,2-Dichloroethane	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,1-Dichloroethene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
cis-1,2-Dichloroethene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
trans-1,2-Dichloroethene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,2-Dichloropropane	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,3-Dichloropropane	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
2,2-Dichloropropane	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,1-Dichloropropene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
cis-1,3-Dichloropropene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
trans-1,3-Dichloropropene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-10 (MB-SB-MW-18@6.5-8' - Soil) - cont.						Sampled: 10/26/10 14:18			
VOCs by SW8260B - cont.									
2,3-Dichloropropene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Isopropyl Ether	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Ethylbenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Hexachlorobutadiene	<41		ug/kg dry	41	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Isopropylbenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
p-Isopropyltoluene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Methylene Chloride	<58		ug/kg dry	58	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Methyl tert-Butyl Ether	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Naphthalene	<58		ug/kg dry	58	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
n-Propylbenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Styrene	<58		ug/kg dry	58	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,1,1,2-Tetrachloroethane	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,1,2,2-Tetrachloroethane	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Tetrachloroethene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Toluene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,2,3-Trichlorobenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,2,4-Trichlorobenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,1,1-Trichloroethane	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,1,2-Trichloroethane	<41		ug/kg dry	41	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Trichloroethene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Trichlorofluoromethane	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,2,3-Trichloropropane	<58		ug/kg dry	58	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,2,4-Trimethylbenzene	37		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
1,3,5-Trimethylbenzene	<29		ug/kg dry	29	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Vinyl chloride	<41		ug/kg dry	41	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
Xylenes, total	<99		ug/kg dry	99	1.1	11/10/10 16:12	LCK	10K0279	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>98 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>100 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>102 %</i>								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-11 (MB-SB-MW-18@6.5-8' - Soil)						Sampled: 10/26/10 14:20			
General Chemistry Parameters									
% Solids	94		%	NA	1	11/09/10 08:06	kjk	10K0257	SM 2540G
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	<0.026		mg/kg dry	0.026	0.8	11/18/10 17:39	CLJ	10K0308	SW 8082
PCB-1221	<0.026		mg/kg dry	0.026	0.8	11/18/10 17:39	CLJ	10K0308	SW 8082
PCB-1232	<0.026		mg/kg dry	0.026	0.8	11/18/10 17:39	CLJ	10K0308	SW 8082
PCB-1242	<0.026		mg/kg dry	0.026	0.8	11/18/10 17:39	CLJ	10K0308	SW 8082
PCB-1248	<0.026		mg/kg dry	0.026	0.8	11/18/10 17:39	CLJ	10K0308	SW 8082
PCB-1254	<0.026		mg/kg dry	0.026	0.8	11/18/10 17:39	CLJ	10K0308	SW 8082
PCB-1260	<0.026		mg/kg dry	0.026	0.8	11/18/10 17:39	CLJ	10K0308	SW 8082
Surr: Decachlorobiphenyl (10-177%)	63 %								
Surr: Tetrachloro-meta-xylene (11-150%)	94 %								
Sample ID: WTK0164-12 (MB-SB-MW-18@6.5-8' DUP - Soil)						Sampled: 10/26/10 14:23			
General Chemistry Parameters									
% Solids	94		%	NA	1	11/09/10 08:09	kjk	10K0258	SM 2540G
PNAs by SW8310									
Acenaphthene	850		ug/kg dry	530	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Acenaphthylene	<900		ug/kg dry	900	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Anthracene	450		ug/kg dry	53	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Benzo (a) anthracene	6000		ug/kg dry	530	99	11/15/10 19:41	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	1700		ug/kg dry	53	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	240		ug/kg dry	53	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Benzo (a) pyrene	450		ug/kg dry	53	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	150		ug/kg dry	53	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Chrysene	540		ug/kg dry	53	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	930		ug/kg dry	79	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Fluoranthene	19000		ug/kg dry	1100	99	11/15/10 19:41	CLJ	10K0272	SW 8310
Fluorene	3200		ug/kg dry	110	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	230		ug/kg dry	53	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
1-Methylnaphthalene	860		ug/kg dry	320	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
2-Methylnaphthalene	1900		ug/kg dry	320	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Naphthalene	<320		ug/kg dry	320	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Phenanthrene	2900		ug/kg dry	530	99	11/15/10 19:41	CLJ	10K0272	SW 8310
Pyrene	4000		ug/kg dry	53	9.9	11/15/10 20:23	CLJ	10K0272	SW 8310
Surr: 2-Fluorobiphenyl (61-128%)	0.00 %		Z3						

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 Project: Former Mirro Plant
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Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-13 (MB-SB-MW-18@6.5-8' - Soil)					Sampled: 10/26/10 14:23				
General Chemistry Parameters									
% Solids	89		%	NA	1	11/09/10 08:09	kjk	10K0258	SM 2540G
PNAs by SW8310									
Acenaphthene	<560		ug/kg dry	560	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Acenaphthylene	<960		ug/kg dry	960	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Anthracene	1000		ug/kg dry	56	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Benzo (a) anthracene	2200		ug/kg dry	56	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	1400		ug/kg dry	56	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	160		ug/kg dry	56	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Benzo (a) pyrene	290		ug/kg dry	56	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	61		ug/kg dry	56	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Chrysene	350		ug/kg dry	56	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	320		ug/kg dry	85	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Fluoranthene	6600		ug/kg dry	110	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Fluorene	1900		ug/kg dry	110	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	120		ug/kg dry	56	10	11/15/10 21:05	CLJ	10K0272	SW 8310
1-Methylnaphthalene	610		ug/kg dry	340	10	11/15/10 21:05	CLJ	10K0272	SW 8310
2-Methylnaphthalene	1100		ug/kg dry	340	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Naphthalene	520		ug/kg dry	340	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Phenanthrene	1200		ug/kg dry	56	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Pyrene	3100		ug/kg dry	56	10	11/15/10 21:05	CLJ	10K0272	SW 8310
Surr: 2-Fluorobiphenyl (61-128%)	0.00 %	Z3							
Sample ID: WTK0164-14 (MB-SB-MW-18@14-16' - Soil)					Sampled: 10/26/10 14:30				
General Chemistry Parameters									
% Solids	78		%	NA	1	11/09/10 08:09	kjk	10K0258	SM 2540G
VOCs by SW8260B									
Benzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Bromobenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Bromochloromethane	<45		ug/kg dry	45	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Bromodichloromethane	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Bromoform	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Bromomethane	<130		ug/kg dry	130	1	11/10/10 16:39	LCK	10K0279	SW 8260B
n-Butylbenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
sec-Butylbenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
tert-Butylbenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Carbon Tetrachloride	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Chlorobenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Chlorodibromomethane	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Chloroethane	<64		ug/kg dry	64	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Chloroform	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Chloromethane	<64		ug/kg dry	64	1	11/10/10 16:39	LCK	10K0279	SW 8260B
2-Chlorotoluene	<64		ug/kg dry	64	1	11/10/10 16:39	LCK	10K0279	SW 8260B
4-Chlorotoluene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,2-Dibromo-3-chloropropane	<64		ug/kg dry	64	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,2-Dibromoethane (EDB)	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Dibromomethane	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,2-Dichlorobenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,3-Dichlorobenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,4-Dichlorobenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Dichlorodifluoromethane	<64		ug/kg dry	64	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,1-Dichloroethane	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B

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Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-14 (MB-SB-MW-18@14-16' - Soil) - cont.						Sampled: 10/26/10 14:30			
VOCs by SW8260B - cont.									
1,2-Dichloroethane	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,1-Dichloroethene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
cis-1,2-Dichloroethene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
trans-1,2-Dichloroethene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,2-Dichloropropane	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,3-Dichloropropane	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
2,2-Dichloropropane	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,1-Dichloropropene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
cis-1,3-Dichloropropene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
trans-1,3-Dichloropropene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
2,3-Dichloropropene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Isopropyl Ether	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Ethylbenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Hexachlorobutadiene	<45		ug/kg dry	45	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Isopropylbenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
p-Isopropyltoluene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Methylene Chloride	<64		ug/kg dry	64	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Methyl tert-Butyl Ether	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Naphthalene	<64		ug/kg dry	64	1	11/10/10 16:39	LCK	10K0279	SW 8260B
n-Propylbenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Styrene	<64		ug/kg dry	64	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,1,1,2-Tetrachloroethane	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,1,2,2-Tetrachloroethane	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Tetrachloroethene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Toluene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,2,3-Trichlorobenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,2,4-Trichlorobenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,1,1-Trichloroethane	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,1,2-Trichloroethane	<45		ug/kg dry	45	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Trichloroethene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Trichlorofluoromethane	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,2,3-Trichloropropane	<64		ug/kg dry	64	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,2,4-Trimethylbenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
1,3,5-Trimethylbenzene	<32		ug/kg dry	32	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Vinyl chloride	<45		ug/kg dry	45	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Xylenes, total	<110		ug/kg dry	110	1	11/10/10 16:39	LCK	10K0279	SW 8260B
Surr: Dibromofluoromethane (80-120%)	105 %								
Surr: Toluene-d8 (80-120%)	96 %								
Surr: 4-Bromofluorobenzene (80-120%)	102 %								

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Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-15 (MB-SB-MW-18@14-16' DUP - Soil)						Sampled: 10/26/10 14:35			
General Chemistry Parameters									
% Solids	79		%	NA	1	11/09/10 08:09	kjk	10K0258	SM 2540G
VOCs by SW8260B									
Benzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Bromobenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Bromochloromethane	<44		ug/kg dry	44	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Bromodichloromethane	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Bromoform	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Bromomethane	<130		ug/kg dry	130	1	11/10/10 17:06	LCK	10K0279	SW 8260B
n-Butylbenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
sec-Butylbenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
tert-Butylbenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Carbon Tetrachloride	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Chlorobenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Chlorodibromomethane	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Chloroethane	<63		ug/kg dry	63	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Chloroform	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Chloromethane	<63		ug/kg dry	63	1	11/10/10 17:06	LCK	10K0279	SW 8260B
2-Chlorotoluene	<63		ug/kg dry	63	1	11/10/10 17:06	LCK	10K0279	SW 8260B
4-Chlorotoluene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,2-Dibromo-3-chloropropane	<63		ug/kg dry	63	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,2-Dibromoethane (EDB)	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Dibromomethane	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,2-Dichlorobenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,3-Dichlorobenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,4-Dichlorobenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Dichlorodifluoromethane	<63		ug/kg dry	63	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,1-Dichloroethane	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,2-Dichloroethane	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,1-Dichloroethene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
cis-1,2-Dichloroethene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
trans-1,2-Dichloroethene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,2-Dichloropropane	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,3-Dichloropropane	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
2,2-Dichloropropane	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,1-Dichloropropene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
cis-1,3-Dichloropropene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
trans-1,3-Dichloropropene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
2,3-Dichloropropene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Isopropyl Ether	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Ethylbenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Hexachlorobutadiene	<44		ug/kg dry	44	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Isopropylbenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
p-Isopropyltoluene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Methylene Chloride	<63		ug/kg dry	63	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Methyl tert-Butyl Ether	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Naphthalene	<63		ug/kg dry	63	1	11/10/10 17:06	LCK	10K0279	SW 8260B
n-Propylbenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Styrene	<63		ug/kg dry	63	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,1,1,2-Tetrachloroethane	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,1,1,2,2-Tetrachloroethane	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Tetrachloroethene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0164
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-15 (MB-SB-MW-18@14-16' DUP - Soil) - cont.						Sampled: 10/26/10 14:35			
VOCs by SW8260B - cont.									
Toluene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,2,3-Trichlorobenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,2,4-Trichlorobenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,1,1-Trichloroethane	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,1,2-Trichloroethane	<44		ug/kg dry	44	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Trichloroethene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Trichlorofluoromethane	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,2,3-Trichloropropane	<63		ug/kg dry	63	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,2,4-Trimethylbenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
1,3,5-Trimethylbenzene	<32		ug/kg dry	32	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Vinyl chloride	<44		ug/kg dry	44	1	11/10/10 17:06	LCK	10K0279	SW 8260B
Xylenes, total	<110		ug/kg dry	110	1	11/10/10 17:06	LCK	10K0279	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	105 %								
<i>Surr: Toluene-d8 (80-120%)</i>	96 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	102 %								
Sample ID: WTK0164-16 (MB-SB-MW-20@2-4' - Soil)						Sampled: 10/26/10 16:15			
General Chemistry Parameters									
% Solids	92		%	NA	1	11/09/10 08:09	kjk	10K0258	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Bromochloromethane	<42		ug/kg dry	42	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Bromoform	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Bromomethane	<120		ug/kg dry	120	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Chloroethane	<60		ug/kg dry	60	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Chloroform	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Chloromethane	<60		ug/kg dry	60	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
2-Chlorotoluene	<60		ug/kg dry	60	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,2-Dibromo-3-chloropropane	<60		ug/kg dry	60	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,3-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Dichlorodifluoromethane	<60		ug/kg dry	60	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0164
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-16 (MB-SB-MW-20@2-4' - Soil) - cont.						Sampled: 10/26/10 16:15			
VOCs by SW8260B - cont.									
2,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
2,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Hexachlorobutadiene	<42		ug/kg dry	42	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Methylene Chloride	<60		ug/kg dry	60	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Naphthalene	160		ug/kg dry	60	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Styrene	<60		ug/kg dry	60	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Tetrachloroethene	110		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Toluene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,1,2-Trichloroethane	<42		ug/kg dry	42	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Trichloroethene	270		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,2,3-Trichloropropane	<60		ug/kg dry	60	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,2,4-Trimethylbenzene	55		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
1,3,5-Trimethylbenzene	<30		ug/kg dry	30	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Vinyl chloride	<42		ug/kg dry	42	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
Xylenes, total	100		ug/kg dry	100	1.1	11/10/10 17:33	LCK	10K0279	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>104 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>97 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>100 %</i>								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-17 (MB-SB-MW-20@2-4' DUP - Soil)						Sampled: 10/26/10 16:20			
General Chemistry Parameters									
% Solids	91		%	NA	1	11/09/10 08:09	kjk	10K0258	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Bromochloromethane	<42		ug/kg dry	42	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Bromoform	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Bromomethane	<120		ug/kg dry	120	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Chloroethane	<60		ug/kg dry	60	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Chloroform	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Chloromethane	<60		ug/kg dry	60	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
2-Chlorotoluene	<60		ug/kg dry	60	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,2-Dibromo-3-chloropropane	<60		ug/kg dry	60	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,3-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Dichlorodifluoromethane	<60		ug/kg dry	60	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
2,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
2,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Hexachlorobutadiene	<42		ug/kg dry	42	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Methylene Chloride	<60		ug/kg dry	60	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Naphthalene	240		ug/kg dry	60	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Styrene	<60		ug/kg dry	60	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Tetrachloroethene	120		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B

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Work Order: WTK0164
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-17 (MB-SB-MW-20@2-4' DUP - Soil) - cont.						Sampled: 10/26/10 16:20			
VOCs by SW8260B - cont.									
Toluene	100		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,1,2-Trichloroethane	<42		ug/kg dry	42	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Trichloroethene	340		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,2,3-Trichloropropane	<60		ug/kg dry	60	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,2,4-Trimethylbenzene	97		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
1,3,5-Trimethylbenzene	<30		ug/kg dry	30	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Vinyl chloride	<42		ug/kg dry	42	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
Xylenes, total	270		ug/kg dry	100	1.1	11/11/10 11:46	LCK	10K0325	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>106 %</i>								
<i>Surr: Toluene-d8 (80-120%)</i>	<i>97 %</i>								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>102 %</i>								
Sample ID: WTK0164-18 (MB-SB-MW-20@5-8' - Soil)						Sampled: 10/26/10 16:25			
General Chemistry Parameters									
% Solids	91		%	NA	1	11/09/10 08:09	kjk	10K0258	SM 2540G
VOCs by SW8260B									
Benzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Bromobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Bromochloromethane	<42		ug/kg dry	42	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Bromodichloromethane	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Bromoform	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Bromomethane	<120		ug/kg dry	120	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
n-Butylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
sec-Butylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
tert-Butylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Carbon Tetrachloride	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Chlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Chlorodibromomethane	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Chloroethane	<60		ug/kg dry	60	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Chloroform	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Chloromethane	<60		ug/kg dry	60	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
2-Chlorotoluene	<60		ug/kg dry	60	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
4-Chlorotoluene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,2-Dibromo-3-chloropropane	<60		ug/kg dry	60	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,2-Dibromoethane (EDB)	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Dibromomethane	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,2-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,3-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,4-Dichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Dichlorodifluoromethane	<60		ug/kg dry	60	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,1-Dichloroethane	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,2-Dichloroethane	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,1-Dichloroethene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
cis-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
trans-1,2-Dichloroethene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,3-Dichloropropane	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-18 (MB-SB-MW-20@5-8' - Soil) - cont.						Sampled: 10/26/10 16:25			
VOCs by SW8260B - cont.									
2,2-Dichloropropane	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,1-Dichloropropene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
cis-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
trans-1,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
2,3-Dichloropropene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Isopropyl Ether	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Ethylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Hexachlorobutadiene	<42		ug/kg dry	42	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Isopropylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
p-Isopropyltoluene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Methylene Chloride	<60		ug/kg dry	60	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Methyl tert-Butyl Ether	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Naphthalene	<60		ug/kg dry	60	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
n-Propylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Styrene	<60		ug/kg dry	60	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,1,1,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,1,2,2-Tetrachloroethane	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Tetrachloroethene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Toluene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,2,3-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,2,4-Trichlorobenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,1,1-Trichloroethane	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,1,2-Trichloroethane	<42		ug/kg dry	42	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Trichloroethene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Trichlorofluoromethane	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,2,3-Trichloropropane	<60		ug/kg dry	60	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,2,4-Trimethylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
1,3,5-Trimethylbenzene	<30		ug/kg dry	30	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Vinyl chloride	<42		ug/kg dry	42	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Xylenes, total	<100		ug/kg dry	100	1.1	11/10/10 13:30	LCK	10K0279	SW 8260B
Surr: Dibromofluoromethane (80-120%)	103 %								
Surr: Toluene-d8 (80-120%)	97 %								
Surr: 4-Bromofluorobenzene (80-120%)	102 %								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
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Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0164-19 (MB-SB-MW-20@6.5-8' - Soil)						Sampled: 10/26/10 16:30			
General Chemistry Parameters									
% Solids	91		%	NA	1	11/09/10 08:09	kjk	10K0258	SM 2540G
PNAs by SW8310									
Acenaphthene	<55		ug/kg dry	55	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Acenaphthylene	<94		ug/kg dry	94	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Anthracene	<5.5		ug/kg dry	5.5	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Benzo (a) anthracene	<5.5		ug/kg dry	5.5	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Benzo (b) fluoranthene	<5.5		ug/kg dry	5.5	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Benzo (k) fluoranthene	<5.5		ug/kg dry	5.5	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Benzo (a) pyrene	<5.5		ug/kg dry	5.5	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Benzo (g,h,i) perylene	<5.5		ug/kg dry	5.5	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Chrysene	<5.5		ug/kg dry	5.5	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Dibenzo (a,h) anthracene	<8.3		ug/kg dry	8.3	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Fluoranthene	<11		ug/kg dry	11	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Fluorene	<11		ug/kg dry	11	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Indeno (1,2,3-cd) pyrene	<5.5		ug/kg dry	5.5	1	11/12/10 19:34	CLJ	10K0272	SW 8310
1-Methylnaphthalene	<33		ug/kg dry	33	1	11/12/10 19:34	CLJ	10K0272	SW 8310
2-Methylnaphthalene	<33		ug/kg dry	33	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Naphthalene	<33		ug/kg dry	33	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Phenanthrene	<5.5		ug/kg dry	5.5	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Pyrene	<5.5		ug/kg dry	5.5	1	11/12/10 19:34	CLJ	10K0272	SW 8310
Surr: 2-Fluorobiphenyl (61-128%)	86 %								

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 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

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 Reported: 11/23/10 17:33

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
BNAs by SW8270C							
n/a		WTK0164-01					
n/a		WTK0164-03					
n/a		WTK0164-06					
n/a		WTK0164-08					
n/a		WTK0164-12					
n/a		WTK0164-13					
n/a		WTK0164-19					
PNAs by SW8310							
SW 8310	10K0272	WTK0164-01	10	2	11/09/10 10:39	TLH	SW 3546
SW 8310	10K0272	WTK0164-03	10	2	11/09/10 10:39	TLH	SW 3546
SW 8310	10K0272	WTK0164-06	10	2	11/09/10 10:39	TLH	SW 3546
SW 8310	10K0272	WTK0164-08	10	2	11/09/10 10:39	TLH	SW 3546
SW 8310	10K0272	WTK0164-12	10	2	11/09/10 10:39	TLH	SW 3546
SW 8310	10K0272	WTK0164-13	10	2	11/09/10 10:39	TLH	SW 3546
SW 8310	10K0272	WTK0164-19	10	2	11/09/10 10:39	TLH	SW 3546
Polychlorinated Biphenyls by EPA Method 8082							
n/a		WTK0164-09					
n/a		WTK0164-11					
SW 8082	10K0308	WTK0164-09	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen
SW 8082	10K0308	WTK0164-11	10	5	11/10/10 14:41	CLJ	Default Prep GC-Sen

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Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

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 Reported: 11/23/10 17:33

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Polychlorinated Biphenyls by EPA Method 8082														
PCB-1016	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1221	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1232	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1242	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1248	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1254	10K0308			mg/kg wet	N/A	0.025	<0.025							
PCB-1260	10K0308			mg/kg wet	N/A	0.025	<0.025							
Surrogate: Decachlorobiphenyl	10K0308			mg/kg wet					100		10-177			
Surrogate: Tetrachloro-meta-xylene	10K0308			mg/kg wet					116		11-150			
VOCs by SW8260B														
Benzene	10K0279			ug/kg wet	N/A	25	<25							
Bromobenzene	10K0279			ug/kg wet	N/A	25	<25							
Bromochloromethane	10K0279			ug/kg wet	N/A	35	<35							
Bromodichloromethane	10K0279			ug/kg wet	N/A	25	<25							
Bromoform	10K0279			ug/kg wet	N/A	25	<25							
Bromomethane	10K0279			ug/kg wet	N/A	100	<100							
n-Butylbenzene	10K0279			ug/kg wet	N/A	25	<25							
sec-Butylbenzene	10K0279			ug/kg wet	N/A	25	<25							
tert-Butylbenzene	10K0279			ug/kg wet	N/A	25	<25							
Carbon Tetrachloride	10K0279			ug/kg wet	N/A	25	<25							
Chlorobenzene	10K0279			ug/kg wet	N/A	25	<25							
Chlorodibromomethane	10K0279			ug/kg wet	N/A	25	<25							
Chloroethane	10K0279			ug/kg wet	N/A	50	<50							
Chloroform	10K0279			ug/kg wet	N/A	25	<25							
Chloromethane	10K0279			ug/kg wet	N/A	50	<50							
2-Chlorotoluene	10K0279			ug/kg wet	N/A	50	<50							
4-Chlorotoluene	10K0279			ug/kg wet	N/A	25	<25							
1,2-Dibromo-3-chloropropane	10K0279			ug/kg wet	N/A	50	<50							
1,2-Dibromoethane (EDB)	10K0279			ug/kg wet	N/A	25	<25							
Dibromomethane	10K0279			ug/kg wet	N/A	25	<25							
1,2-Dichlorobenzene	10K0279			ug/kg wet	N/A	25	<25							
1,3-Dichlorobenzene	10K0279			ug/kg wet	N/A	25	<25							
1,4-Dichlorobenzene	10K0279			ug/kg wet	N/A	25	<25							
Dichlorodifluoromethane	10K0279			ug/kg wet	N/A	50	<50							
1,1-Dichloroethane	10K0279			ug/kg wet	N/A	25	<25							
1,2-Dichloroethane	10K0279			ug/kg wet	N/A	25	<25							
1,1-Dichloroethene	10K0279			ug/kg wet	N/A	25	<25							
cis-1,2-Dichloroethene	10K0279			ug/kg wet	N/A	25	<25							
trans-1,2-Dichloroethene	10K0279			ug/kg wet	N/A	25	<25							
1,2-Dichloropropane	10K0279			ug/kg wet	N/A	25	<25							
1,3-Dichloropropane	10K0279			ug/kg wet	N/A	25	<25							
2,2-Dichloropropane	10K0279			ug/kg wet	N/A	25	<25							
1,1-Dichloropropene	10K0279			ug/kg wet	N/A	25	<25							
cis-1,3-Dichloropropene	10K0279			ug/kg wet	N/A	25	<25							

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Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
trans-1,3-Dichloropropene	10K0279			ug/kg wet	N/A	25	<25							
2,3-Dichloropropene	10K0279			ug/kg wet	N/A	25	<25							
Isopropyl Ether	10K0279			ug/kg wet	N/A	25	<25							
Ethylbenzene	10K0279			ug/kg wet	N/A	25	<25							
Hexachlorobutadiene	10K0279			ug/kg wet	N/A	35	<35							
Isopropylbenzene	10K0279			ug/kg wet	N/A	25	<25							
p-Isopropyltoluene	10K0279			ug/kg wet	N/A	25	<25							
Methylene Chloride	10K0279			ug/kg wet	N/A	50	<50							
Methyl tert-Butyl Ether	10K0279			ug/kg wet	N/A	25	<25							
Naphthalene	10K0279			ug/kg wet	N/A	50	<50							
n-Propylbenzene	10K0279			ug/kg wet	N/A	25	<25							
Styrene	10K0279			ug/kg wet	N/A	50	<50							
1,1,1,2-Tetrachloroethane	10K0279			ug/kg wet	N/A	25	<25							
1,1,2,2-Tetrachloroethane	10K0279			ug/kg wet	N/A	25	<25							
Tetrachloroethene	10K0279			ug/kg wet	N/A	25	<25							
Toluene	10K0279			ug/kg wet	N/A	25	<25							
1,2,3-Trichlorobenzene	10K0279			ug/kg wet	N/A	25	<25							
1,2,4-Trichlorobenzene	10K0279			ug/kg wet	N/A	25	<25							
1,1,1-Trichloroethane	10K0279			ug/kg wet	N/A	25	<25							
1,1,2-Trichloroethane	10K0279			ug/kg wet	N/A	35	<35							
Trichloroethene	10K0279			ug/kg wet	N/A	25	<25							
Trichlorofluoromethane	10K0279			ug/kg wet	N/A	25	<25							
1,2,3-Trichloropropane	10K0279			ug/kg wet	N/A	50	<50							
1,2,4-Trimethylbenzene	10K0279			ug/kg wet	N/A	25	<25							
1,3,5-Trimethylbenzene	10K0279			ug/kg wet	N/A	25	<25							
Vinyl chloride	10K0279			ug/kg wet	N/A	35	<35							
Xylenes, total	10K0279			ug/kg wet	N/A	85	<85							
<i>Surrogate: Dibromofluoromethane</i>	<i>10K0279</i>			ug/kg wet						<i>100</i>		<i>80-120</i>		
<i>Surrogate: Toluene-d8</i>	<i>10K0279</i>			ug/kg wet						<i>99</i>		<i>80-120</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>10K0279</i>			ug/kg wet						<i>101</i>		<i>80-120</i>		
Pentafluorobenzene	10K0279		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
1,4-Difluorobenzene	10K0279		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
Chlorobenzene-d5	10K0279		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
1,4-Dichlorobenzene-d4	10K0279		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
Benzene	10K0325			ug/kg wet	N/A	25	<25							
Bromobenzene	10K0325			ug/kg wet	N/A	25	<25							
Bromochloromethane	10K0325			ug/kg wet	N/A	35	<35							
Bromodichloromethane	10K0325			ug/kg wet	N/A	25	<25							
Bromoform	10K0325			ug/kg wet	N/A	25	<25							
Bromomethane	10K0325			ug/kg wet	N/A	100	<100							
n-Butylbenzene	10K0325			ug/kg wet	N/A	25	<25							
sec-Butylbenzene	10K0325			ug/kg wet	N/A	25	<25							
tert-Butylbenzene	10K0325			ug/kg wet	N/A	25	<25							
Carbon Tetrachloride	10K0325			ug/kg wet	N/A	25	<25							

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Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
Chlorobenzene	10K0325			ug/kg wet	N/A	25	<25							
Chlorodibromomethane	10K0325			ug/kg wet	N/A	25	<25							
Chloroethane	10K0325			ug/kg wet	N/A	50	<50							
Chloroform	10K0325			ug/kg wet	N/A	25	<25							
Chloromethane	10K0325			ug/kg wet	N/A	50	<50							
2-Chlorotoluene	10K0325			ug/kg wet	N/A	50	<50							
4-Chlorotoluene	10K0325			ug/kg wet	N/A	25	<25							
1,2-Dibromo-3-chloropropane	10K0325			ug/kg wet	N/A	50	<50							
1,2-Dibromoethane (EDB)	10K0325			ug/kg wet	N/A	25	<25							
Dibromomethane	10K0325			ug/kg wet	N/A	25	<25							
1,2-Dichlorobenzene	10K0325			ug/kg wet	N/A	25	<25							
1,3-Dichlorobenzene	10K0325			ug/kg wet	N/A	25	<25							
1,4-Dichlorobenzene	10K0325			ug/kg wet	N/A	25	<25							
Dichlorodifluoromethane	10K0325			ug/kg wet	N/A	50	<50							
1,1-Dichloroethane	10K0325			ug/kg wet	N/A	25	<25							
1,2-Dichloroethane	10K0325			ug/kg wet	N/A	25	<25							
1,1-Dichloroethene	10K0325			ug/kg wet	N/A	25	<25							
cis-1,2-Dichloroethene	10K0325			ug/kg wet	N/A	25	<25							
trans-1,2-Dichloroethene	10K0325			ug/kg wet	N/A	25	<25							
1,2-Dichloropropane	10K0325			ug/kg wet	N/A	25	<25							
1,3-Dichloropropane	10K0325			ug/kg wet	N/A	25	<25							
2,2-Dichloropropane	10K0325			ug/kg wet	N/A	25	<25							
1,1-Dichloropropene	10K0325			ug/kg wet	N/A	25	<25							
cis-1,3-Dichloropropene	10K0325			ug/kg wet	N/A	25	<25							
trans-1,3-Dichloropropene	10K0325			ug/kg wet	N/A	25	<25							
2,3-Dichloropropene	10K0325			ug/kg wet	N/A	25	<25							
Isopropyl Ether	10K0325			ug/kg wet	N/A	25	<25							
Ethylbenzene	10K0325			ug/kg wet	N/A	25	<25							
Hexachlorobutadiene	10K0325			ug/kg wet	N/A	35	<35							
Isopropylbenzene	10K0325			ug/kg wet	N/A	25	<25							
p-Isopropyltoluene	10K0325			ug/kg wet	N/A	25	<25							
Methylene Chloride	10K0325			ug/kg wet	N/A	50	<50							
Methyl tert-Butyl Ether	10K0325			ug/kg wet	N/A	25	<25							
Naphthalene	10K0325			ug/kg wet	N/A	50	<50							
n-Propylbenzene	10K0325			ug/kg wet	N/A	25	<25							
Styrene	10K0325			ug/kg wet	N/A	50	<50							
1,1,1,2-Tetrachloroethane	10K0325			ug/kg wet	N/A	25	<25							
1,1,1,2,2-Tetrachloroethane	10K0325			ug/kg wet	N/A	25	<25							
Tetrachloroethene	10K0325			ug/kg wet	N/A	25	<25							
Toluene	10K0325			ug/kg wet	N/A	25	<25							
1,2,3-Trichlorobenzene	10K0325			ug/kg wet	N/A	25	<25							
1,2,4-Trichlorobenzene	10K0325			ug/kg wet	N/A	25	<25							
1,1,1-Trichloroethane	10K0325			ug/kg wet	N/A	25	<25							
1,1,2-Trichloroethane	10K0325			ug/kg wet	N/A	35	<35							
Trichloroethene	10K0325			ug/kg wet	N/A	25	<25							

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
Trichlorofluoromethane	10K0325			ug/kg wet	N/A	25	<25							
1,2,3-Trichloropropane	10K0325			ug/kg wet	N/A	50	<50							
1,2,4-Trimethylbenzene	10K0325			ug/kg wet	N/A	25	<25							
1,3,5-Trimethylbenzene	10K0325			ug/kg wet	N/A	25	<25							
Vinyl chloride	10K0325			ug/kg wet	N/A	35	<35							
Xylenes, total	10K0325			ug/kg wet	N/A	85	<85							
Surrogate: Dibromofluoromethane	10K0325			ug/kg wet						109		80-120		
Surrogate: Toluene-d8	10K0325			ug/kg wet						96		80-120		
Surrogate: 4-Bromofluorobenzene	10K0325			ug/kg wet						101		80-120		
Pentafluorobenzene	10K0325		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
1,4-Difluorobenzene	10K0325		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
Chlorobenzene-d5	10K0325		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
1,4-Dichlorobenzene-d4	10K0325		50	ug/kg wet	N/A	N/A	50.0			100		50-200		
PNAs by SW8310														
Acenaphthene	10K0272			ug/kg wet	N/A	50	<50							
Acenaphthylene	10K0272			ug/kg wet	N/A	85	<85							
Anthracene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (a) anthracene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (b) fluoranthene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (k) fluoranthene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (a) pyrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Benzo (g,h,i) perylene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Chrysene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Dibenzo (a,h) anthracene	10K0272			ug/kg wet	N/A	7.5	<7.5							
Fluoranthene	10K0272			ug/kg wet	N/A	10	<10							
Fluorene	10K0272			ug/kg wet	N/A	10	<10							
Indeno (1,2,3-cd) pyrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
1-Methylnaphthalene	10K0272			ug/kg wet	N/A	30	<30							
2-Methylnaphthalene	10K0272			ug/kg wet	N/A	30	<30							
Naphthalene	10K0272			ug/kg wet	N/A	30	<30							
Phenanthrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Pyrene	10K0272			ug/kg wet	N/A	5.0	<5.0							
Surrogate: 2-Fluorobiphenyl	10K0272			ug/kg wet						83		61-128		

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LABORATORY DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
General Chemistry Parameters													
QC Source Sample: WTK0163-20													
% Solids	10K0166	90.3		%	N/A	N/A	89.5				1	20	
QC Source Sample: WTK0164-09													
% Solids	10K0257	93.2		%	N/A	N/A	93.4				0	20	
QC Source Sample: WTK0164-18													
% Solids	10K0258	91.0		%	N/A	N/A	91.7				1	20	

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LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Polychlorinated Biphenyls by EPA Method 8082														
PCB-1016	10K0308		0.25	mg/kg wet	N/A	0.025	0.31		122		75-125			
PCB-1221	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1232	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1242	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1248	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1254	10K0308			mg/kg wet	N/A	0.025	<0.025				75-125			
PCB-1260	10K0308		0.25	mg/kg wet	N/A	0.025	0.27		107		75-125			
Surrogate: Decachlorobiphenyl	10K0308			mg/kg wet					96		60-150			
Surrogate: Tetrachloro-meta-xylene	10K0308			mg/kg wet					113		60-150			
VOCs by SW8260B														
Benzene	10K0279		2500	ug/kg wet	N/A	25	2420		97		80-120		29	
Bromobenzene	10K0279		2500	ug/kg wet	N/A	25	2300		92		80-120		20	
Bromochloromethane	10K0279		2500	ug/kg wet	N/A	35	2490		99		80-120		20	
Bromodichloromethane	10K0279		2500	ug/kg wet	N/A	25	2310		92		80-120		20	
Bromoform	10K0279		2500	ug/kg wet	N/A	25	2220		89		80-120		20	
Bromomethane	10K0279		2500	ug/kg wet	N/A	100	2360		94		60-140		20	
n-Butylbenzene	10K0279		2500	ug/kg wet	N/A	25	2410		96		80-120		20	
sec-Butylbenzene	10K0279		2500	ug/kg wet	N/A	25	2400		96		80-120		20	
tert-Butylbenzene	10K0279		2500	ug/kg wet	N/A	25	2370		95		80-120		20	
Carbon Tetrachloride	10K0279		2500	ug/kg wet	N/A	25	2440		98		60-140		20	
Chlorobenzene	10K0279		2500	ug/kg wet	N/A	25	2400		96		80-120		17	
Chlorodibromomethane	10K0279		2500	ug/kg wet	N/A	25	2290		92		80-120		20	
Chloroethane	10K0279		2500	ug/kg wet	N/A	50	2310		92		60-140		20	
Chloroform	10K0279		2500	ug/kg wet	N/A	25	2500		100		80-120		20	
Chloromethane	10K0279		2500	ug/kg wet	N/A	50	2250		90		60-140		20	
2-Chlorotoluene	10K0279		2500	ug/kg wet	N/A	50	2350		94		80-120		20	
4-Chlorotoluene	10K0279		2500	ug/kg wet	N/A	25	2300		92		80-120		20	
1,2-Dibromo-3-chloropropane	10K0279		2500	ug/kg wet	N/A	50	2180		87		60-140		20	
1,2-Dibromoethane (EDB)	10K0279		2500	ug/kg wet	N/A	25	2370		95		80-120		20	
Dibromomethane	10K0279		2500	ug/kg wet	N/A	25	2440		98		80-120		20	
1,2-Dichlorobenzene	10K0279		2500	ug/kg wet	N/A	25	2350		94		80-120		20	
1,3-Dichlorobenzene	10K0279		2500	ug/kg wet	N/A	25	2360		95		80-120		20	
1,4-Dichlorobenzene	10K0279		2500	ug/kg wet	N/A	25	2350		94		80-120		20	
Dichlorodifluoromethane	10K0279		2500	ug/kg wet	N/A	50	2550		102		60-140		20	
1,1-Dichloroethane	10K0279		2500	ug/kg wet	N/A	25	2430		97		80-120		20	
1,2-Dichloroethane	10K0279		2500	ug/kg wet	N/A	25	2370		95		80-120		20	
1,1-Dichloroethene	10K0279		2500	ug/kg wet	N/A	25	2500		100		80-120		44	
cis-1,2-Dichloroethene	10K0279		2500	ug/kg wet	N/A	25	2570		103		80-120		20	
trans-1,2-Dichloroethene	10K0279		2500	ug/kg wet	N/A	25	2500		100		80-120		20	
1,2-Dichloropropane	10K0279		2500	ug/kg wet	N/A	25	2270		91		80-120		20	
1,3-Dichloropropane	10K0279		2500	ug/kg wet	N/A	25	2280		91		80-120		20	
2,2-Dichloropropane	10K0279		2500	ug/kg wet	N/A	25	2460		98		60-140		20	
1,1-Dichloropropene	10K0279		2500	ug/kg wet	N/A	25	2530		101		80-120		20	
cis-1,3-Dichloropropene	10K0279		2500	ug/kg wet	N/A	25	2320		93		80-120		20	

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LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
trans-1,3-Dichloropropene	10K0279		2500	ug/kg wet	N/A	25	2280		91		80-120		20	
Ethylbenzene	10K0279		2500	ug/kg wet	N/A	25	2360		94		80-120		17	
Hexachlorobutadiene	10K0279		2500	ug/kg wet	N/A	35	2400		96		60-140		20	
Isopropylbenzene	10K0279		2500	ug/kg wet	N/A	25	2370		95		80-120		20	
p-Isopropyltoluene	10K0279		2500	ug/kg wet	N/A	25	2400		96		80-120		20	
Methylene Chloride	10K0279		2500	ug/kg wet	N/A	50	2510		100		80-120		20	
Methyl tert-Butyl Ether	10K0279		2500	ug/kg wet	N/A	25	2490		100		80-120		36	
Naphthalene	10K0279		2500	ug/kg wet	N/A	50	2120		85		60-140		20	
n-Propylbenzene	10K0279		2500	ug/kg wet	N/A	25	2390		95		80-120		20	
Styrene	10K0279		2500	ug/kg wet	N/A	50	2350		94		80-120		20	
1,1,1,2-Tetrachloroethane	10K0279		2500	ug/kg wet	N/A	25	2320		93		80-120		20	
1,1,2,2-Tetrachloroethane	10K0279		2500	ug/kg wet	N/A	25	2240		90		80-120		20	
Tetrachloroethene	10K0279		2500	ug/kg wet	N/A	25	2500		100		80-120		20	
Toluene	10K0279		2500	ug/kg wet	N/A	25	2390		96		80-120		18	
1,2,3-Trichlorobenzene	10K0279		2500	ug/kg wet	N/A	25	2330		93		80-120		20	
1,2,4-Trichlorobenzene	10K0279		2500	ug/kg wet	N/A	25	2350		94		80-120		20	
1,1,1-Trichloroethane	10K0279		2500	ug/kg wet	N/A	25	2500		100		80-120		20	
1,1,2-Trichloroethane	10K0279		2500	ug/kg wet	N/A	35	2320		93		80-120		20	
Trichloroethene	10K0279		2500	ug/kg wet	N/A	25	2520		101		80-120		20	
Trichlorofluoromethane	10K0279		2500	ug/kg wet	N/A	25	2430		97		80-120		20	
1,2,3-Trichloropropane	10K0279		2500	ug/kg wet	N/A	50	2230		89		80-120		20	
1,2,4-Trimethylbenzene	10K0279		2500	ug/kg wet	N/A	25	2360		94		80-120		20	
1,3,5-Trimethylbenzene	10K0279		2500	ug/kg wet	N/A	25	2400		96		80-120		19	
Vinyl chloride	10K0279		2500	ug/kg wet	N/A	35	2550		102		80-120		20	
Xylenes, total	10K0279		7500	ug/kg wet	N/A	85	7140		95		80-120		17	
<i>Surrogate: Dibromofluoromethane</i>	<i>10K0279</i>			ug/kg wet					<i>102</i>		<i>80-120</i>			
<i>Surrogate: Toluene-d8</i>	<i>10K0279</i>			ug/kg wet					<i>98</i>		<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>10K0279</i>			ug/kg wet					<i>100</i>		<i>80-120</i>			
Benzene	10K0325		2500	ug/kg wet	N/A	25	2550		102		80-120		29	
Bromobenzene	10K0325		2500	ug/kg wet	N/A	25	2320		93		80-120		20	
Bromochloromethane	10K0325		2500	ug/kg wet	N/A	35	2490		100		80-120		20	
Bromodichloromethane	10K0325		2500	ug/kg wet	N/A	25	2400		96		80-120		20	
Bromoform	10K0325		2500	ug/kg wet	N/A	25	2240		90		80-120		20	
Bromomethane	10K0325		2500	ug/kg wet	N/A	100	2350		94		60-140		20	
n-Butylbenzene	10K0325		2500	ug/kg wet	N/A	25	2530		101		80-120		20	
sec-Butylbenzene	10K0325		2500	ug/kg wet	N/A	25	2550		102		80-120		20	
tert-Butylbenzene	10K0325		2500	ug/kg wet	N/A	25	2500		100		80-120		20	
Carbon Tetrachloride	10K0325		2500	ug/kg wet	N/A	25	2660		106		60-140		20	
Chlorobenzene	10K0325		2500	ug/kg wet	N/A	25	2470		99		80-120		17	
Chlorodibromomethane	10K0325		2500	ug/kg wet	N/A	25	2280		91		80-120		20	
Chloroethane	10K0325		2500	ug/kg wet	N/A	50	2490		99		60-140		20	
Chloroform	10K0325		2500	ug/kg wet	N/A	25	2580		103		80-120		20	
Chloromethane	10K0325		2500	ug/kg wet	N/A	50	2400		96		60-140		20	
2-Chlorotoluene	10K0325		2500	ug/kg wet	N/A	50	2430		97		80-120		20	

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VOCs by SW8260B														
4-Chlorotoluene	10K0325		2500	ug/kg wet	N/A	25	2410		96		80-120		20	
1,2-Dibromo-3-chloropropane	10K0325		2500	ug/kg wet	N/A	50	2140		86		60-140		20	
1,2-Dibromoethane (EDB)	10K0325		2500	ug/kg wet	N/A	25	2360		94		80-120		20	
Dibromomethane	10K0325		2500	ug/kg wet	N/A	25	2430		97		80-120		20	
1,2-Dichlorobenzene	10K0325		2500	ug/kg wet	N/A	25	2350		94		80-120		20	
1,3-Dichlorobenzene	10K0325		2500	ug/kg wet	N/A	25	2400		96		80-120		20	
1,4-Dichlorobenzene	10K0325		2500	ug/kg wet	N/A	25	2360		95		80-120		20	
Dichlorodifluoromethane	10K0325		2500	ug/kg wet	N/A	50	2760		110		60-140		20	
1,1-Dichloroethane	10K0325		2500	ug/kg wet	N/A	25	2580		103		80-120		20	
1,2-Dichloroethane	10K0325		2500	ug/kg wet	N/A	25	2410		96		80-120		20	
1,1-Dichloroethene	10K0325		2500	ug/kg wet	N/A	25	2760		110		80-120		44	
cis-1,2-Dichloroethene	10K0325		2500	ug/kg wet	N/A	25	2670		107		80-120		20	
trans-1,2-Dichloroethene	10K0325		2500	ug/kg wet	N/A	25	2760		110		80-120		20	
1,2-Dichloropropane	10K0325		2500	ug/kg wet	N/A	25	2350		94		80-120		20	
1,3-Dichloropropane	10K0325		2500	ug/kg wet	N/A	25	2290		92		80-120		20	
2,2-Dichloropropane	10K0325		2500	ug/kg wet	N/A	25	2670		107		60-140		20	
1,1-Dichloropropene	10K0325		2500	ug/kg wet	N/A	25	2780		111		80-120		20	
cis-1,3-Dichloropropene	10K0325		2500	ug/kg wet	N/A	25	2380		95		80-120		20	
trans-1,3-Dichloropropene	10K0325		2500	ug/kg wet	N/A	25	2330		93		80-120		20	
Ethylbenzene	10K0325		2500	ug/kg wet	N/A	25	2520		101		80-120		17	
Hexachlorobutadiene	10K0325		2500	ug/kg wet	N/A	35	2500		100		60-140		20	
Isopropylbenzene	10K0325		2500	ug/kg wet	N/A	25	2530		101		80-120		20	
p-Isopropyltoluene	10K0325		2500	ug/kg wet	N/A	25	2510		101		80-120		20	
Methylene Chloride	10K0325		2500	ug/kg wet	N/A	50	2550		102		80-120		20	
Methyl tert-Butyl Ether	10K0325		2500	ug/kg wet	N/A	25	2500		100		80-120		36	
Naphthalene	10K0325		2500	ug/kg wet	N/A	50	2090		84		60-140		20	
n-Propylbenzene	10K0325		2500	ug/kg wet	N/A	25	2520		101		80-120		20	
Styrene	10K0325		2500	ug/kg wet	N/A	50	2420		97		80-120		20	
1,1,1,2-Tetrachloroethane	10K0325		2500	ug/kg wet	N/A	25	2360		94		80-120		20	
1,1,2,2-Tetrachloroethane	10K0325		2500	ug/kg wet	N/A	25	2230		89		80-120		20	
Tetrachloroethene	10K0325		2500	ug/kg wet	N/A	25	2670		107		80-120		20	
Toluene	10K0325		2500	ug/kg wet	N/A	25	2510		100		80-120		18	
1,2,3-Trichlorobenzene	10K0325		2500	ug/kg wet	N/A	25	2320		93		80-120		20	
1,2,4-Trichlorobenzene	10K0325		2500	ug/kg wet	N/A	25	2370		95		80-120		20	
1,1,1-Trichloroethane	10K0325		2500	ug/kg wet	N/A	25	2730		109		80-120		20	
1,1,2-Trichloroethane	10K0325		2500	ug/kg wet	N/A	35	2310		93		80-120		20	
Trichloroethene	10K0325		2500	ug/kg wet	N/A	25	2660		106		80-120		20	
Trichlorofluoromethane	10K0325		2500	ug/kg wet	N/A	25	2640		106		80-120		20	
1,2,3-Trichloropropane	10K0325		2500	ug/kg wet	N/A	50	2210		88		80-120		20	
1,2,4-Trimethylbenzene	10K0325		2500	ug/kg wet	N/A	25	2430		97		80-120		20	
1,3,5-Trimethylbenzene	10K0325		2500	ug/kg wet	N/A	25	2490		99		80-120		19	
Vinyl chloride	10K0325		2500	ug/kg wet	N/A	35	2750		110		80-120		20	
Xylenes, total	10K0325		7500	ug/kg wet	N/A	85	7420		99		80-120		17	
Surrogate: Dibromofluoromethane	10K0325			ug/kg wet					103		80-120			
Surrogate: Toluene-d8	10K0325			ug/kg wet					99		80-120			

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Work Order: WTK0164
 Project: Former Mirro Plant
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Received: 11/04/10
 Reported: 11/23/10 17:33

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
<i>Surrogate: 4-Bromofluorobenzene</i>	10K0325			ug/kg wet					100		80-120			
PNAs by SW8310														
Acenaphthene	10K0272		1000	ug/kg wet	N/A	50	781		78		72-114			
Acenaphthylene	10K0272		2000	ug/kg wet	N/A	85	1650		83		74-117			
Anthracene	10K0272		100	ug/kg wet	N/A	5.0	81.8		82		67-124			
Benzo (a) anthracene	10K0272		100	ug/kg wet	N/A	5.0	100		100		76-119			
Benzo (b) fluoranthene	10K0272		200	ug/kg wet	N/A	5.0	177		88		87-132			
Benzo (k) fluoranthene	10K0272		100	ug/kg wet	N/A	5.0	95.3		95		86-132			
Benzo (a) pyrene	10K0272		100	ug/kg wet	N/A	5.0	80.5		81		62-125			
Benzo (g,h,i) perylene	10K0272		200	ug/kg wet	N/A	5.0	180		90		80-128			
Chrysene	10K0272		100	ug/kg wet	N/A	5.0	96.9		97		80-121			
Dibenzo (a,h) anthracene	10K0272		200	ug/kg wet	N/A	7.5	233		116		87-128			
Fluoranthene	10K0272		200	ug/kg wet	N/A	10	180		90		78-129			
Fluorene	10K0272		200	ug/kg wet	N/A	10	207		104		64-122			
Indeno (1,2,3-cd) pyrene	10K0272		100	ug/kg wet	N/A	5.0	81.0		81		80-125			
1-Methylnaphthalene	10K0272		1000	ug/kg wet	N/A	30	793		79		72-115			
2-Methylnaphthalene	10K0272		1000	ug/kg wet	N/A	30	755		75		59-114			
Naphthalene	10K0272		1000	ug/kg wet	N/A	30	796		80		72-111			
Phenanthrene	10K0272		100	ug/kg wet	N/A	5.0	87.8		88		78-132			
Pyrene	10K0272		100	ug/kg wet	N/A	5.0	107		107		75-122			
<i>Surrogate: 2-Fluorobiphenyl</i>	10K0272			ug/kg wet					90		61-128			

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Polychlorinated Biphenyls by EPA Method 8082														
QC Source Sample: WTK0161-02														
PCB-1016	10K0308	<0.033	0.30	mg/kg dry	N/A	0.030	0.35	0.37	116	122	70-130	5	20	
PCB-1221	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1232	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1242	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1248	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1254	10K0308	<0.033		mg/kg dry	N/A	0.030	<0.030	<0.030			70-130		20	
PCB-1260	10K0308	<0.033	0.30	mg/kg dry	N/A	0.030	0.28	0.28	91	93	70-130	1	20	
Surrogate: Decachlorobiphenyl	10K0308			mg/kg dry					83	85	10-177			
Surrogate: Tetrachloro-meta-xylene	10K0308			mg/kg dry					105	111	11-150			
VOCs by SW8260B														
QC Source Sample: WTK0164-18														
Benzene	10K0279	<25	2700	ug/kg dry	N/A	30	3080	3010	112	110	80-120	2	20	
Bromochloromethane	10K0279	<35	2700	ug/kg dry	N/A	42	3030	3030	110	110	80-120	0	20	
Bromodichloromethane	10K0279	<25	2700	ug/kg dry	N/A	30	2880	2900	105	106	80-120	1	20	
Bromoform	10K0279	<25	2700	ug/kg dry	N/A	30	2750	2720	100	99	80-120	1	20	
Bromomethane	10K0279	<100	2700	ug/kg dry	N/A	120	3070	2900	112	106	60-140	6	20	
n-Butylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3130	2970	114	108	80-120	5	20	
sec-Butylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3130	2980	114	108	80-120	5	20	
tert-Butylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3070	2950	112	107	80-120	4	20	
Carbon Tetrachloride	10K0279	<25	2700	ug/kg dry	N/A	30	3180	3050	116	111	60-140	4	20	
Chlorobenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3000	2930	109	107	80-120	2	20	
Chlorodibromomethane	10K0279	<25	2700	ug/kg dry	N/A	30	2820	2810	103	102	80-120	0	20	
Chloroethane	10K0279	<50	2700	ug/kg dry	N/A	60	2890	2800	105	102	60-140	3	20	
Chloroform	10K0279	<25	2700	ug/kg dry	N/A	30	3060	3000	111	109	80-120	2	20	
Chloromethane	10K0279	<50	2700	ug/kg dry	N/A	60	2790	2690	102	98	60-140	4	20	
2-Chlorotoluene	10K0279	<50	2700	ug/kg dry	N/A	60	2960	2860	108	104	80-120	4	20	
4-Chlorotoluene	10K0279	<25	2700	ug/kg dry	N/A	30	2900	2840	106	103	80-120	2	20	
1,2-Dibromo-3-chloropropane	10K0279	<50	2700	ug/kg dry	N/A	60	2600	2630	95	96	60-140	1	20	
1,2-Dibromoethane (EDB)	10K0279	<25	2700	ug/kg dry	N/A	30	2840	2840	103	103	80-120	0	20	
Dibromomethane	10K0279	<25	2700	ug/kg dry	N/A	30	2920	2980	106	109	80-120	2	20	
1,2-Dichlorobenzene	10K0279	<25	2700	ug/kg dry	N/A	30	2890	2840	105	103	80-120	2	20	
1,3-Dichlorobenzene	10K0279	<25	2700	ug/kg dry	N/A	30	2930	2900	107	105	80-120	1	20	
1,4-Dichlorobenzene	10K0279	<25	2700	ug/kg dry	N/A	30	2910	2860	106	104	80-120	2	20	
Dichlorodifluoromethane	10K0279	<50	2700	ug/kg dry	N/A	60	3060	2860	112	104	60-140	7	20	
1,1-Dichloroethane	10K0279	<25	2700	ug/kg dry	N/A	30	3030	2940	110	107	80-120	3	20	
1,2-Dichloroethane	10K0279	<25	2700	ug/kg dry	N/A	30	2840	2840	103	103	80-120	0	20	
1,1-Dichloroethene	10K0279	<25	2700	ug/kg dry	N/A	30	3210	3030	117	110	80-120	6	20	
cis-1,2-Dichloroethene	10K0279	<25	2700	ug/kg dry	N/A	30	3170	3120	115	113	80-120	2	20	
trans-1,2-Dichloroethene	10K0279	<25	2700	ug/kg dry	N/A	30	3210	3030	117	110	80-120	6	20	
1,2-Dichloropropane	10K0279	<25	2700	ug/kg dry	N/A	30	2920	2860	106	104	80-120	2	20	
1,3-Dichloropropane	10K0279	<25	2700	ug/kg dry	N/A	30	2790	2750	102	100	80-120	1	20	
2,2-Dichloropropane	10K0279	<25	2700	ug/kg dry	N/A	30	3120	2990	113	109	60-140	4	20	
1,1-Dichloropropene	10K0279	<25	2700	ug/kg dry	N/A	30	3220	3070	117	112	80-120	5	20	
cis-1,3-Dichloropropene	10K0279	<25	2700	ug/kg dry	N/A	30	2900	2860	106	104	80-120	2	20	
trans-1,3-Dichloropropene	10K0279	<25	2700	ug/kg dry	N/A	30	2780	2840	101	103	80-120	2	20	

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
QC Source Sample: WTK0164-18														
Ethylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3060	2950	111	107	80-120	4	20	
Hexachlorobutadiene	10K0279	<35	2700	ug/kg dry	N/A	42	3130	3000	114	109	60-140	4	20	
Isopropylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3110	2950	113	107	80-120	5	20	
p-Isopropyltoluene	10K0279	<25	2700	ug/kg dry	N/A	30	3100	2980	113	108	80-120	4	20	
Methylene Chloride	10K0279	<50	2700	ug/kg dry	N/A	60	3070	3050	112	111	80-120	1	20	
Methyl tert-Butyl Ether	10K0279	<25	2700	ug/kg dry	N/A	30	2930	2910	107	106	80-120	1	20	
Naphthalene	10K0279	<50	2700	ug/kg dry	N/A	60	2630	2640	96	96	60-140	1	20	
n-Propylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3080	2970	112	108	80-120	4	20	
Styrene	10K0279	<50	2700	ug/kg dry	N/A	60	2990	2890	109	105	80-120	3	20	
1,1,1,2-Tetrachloroethane	10K0279	<25	2700	ug/kg dry	N/A	30	2900	2840	106	103	80-120	2	20	
1,1,2,2-Tetrachloroethane	10K0279	<25	2700	ug/kg dry	N/A	30	2800	2780	102	101	80-120	1	20	
Tetrachloroethene	10K0279	<25	2700	ug/kg dry	N/A	30	3220	3100	117	113	80-120	4	20	
Toluene	10K0279	<25	2700	ug/kg dry	N/A	30	3080	2930	112	107	80-120	5	20	
1,2,3-Trichlorobenzene	10K0279	<25	2700	ug/kg dry	N/A	30	2900	2880	106	105	80-120	1	20	
1,2,4-Trichlorobenzene	10K0279	<25	2700	ug/kg dry	N/A	30	2930	2900	107	106	80-120	1	20	
1,1,1-Trichloroethane	10K0279	<25	2700	ug/kg dry	N/A	30	3210	3080	117	112	80-120	4	20	
1,1,2-Trichloroethane	10K0279	<35	2700	ug/kg dry	N/A	42	2850	2830	104	103	80-120	1	20	
Trichloroethene	10K0279	<25	2700	ug/kg dry	N/A	30	3190	3100	116	113	80-120	3	20	
Trichlorofluoromethane	10K0279	<25	2700	ug/kg dry	N/A	30	3180	3060	116	111	80-120	4	20	
1,2,3-Trichloropropane	10K0279	<50	2700	ug/kg dry	N/A	60	2710	2690	99	98	80-120	1	20	
1,2,4-Trimethylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	2980	2910	108	106	80-120	2	20	
1,3,5-Trimethylbenzene	10K0279	<25	2700	ug/kg dry	N/A	30	3030	2950	110	107	80-120	3	20	
Vinyl chloride	10K0279	<35	2700	ug/kg dry	N/A	42	3060	2920	111	106	80-120	5	20	
Xylenes, total	10K0279	<85	8200	ug/kg dry	N/A	100	9200	8830	112	107	80-120	4	20	
Surrogate: Dibromofluoromethane	10K0279			ug/kg dry					102	103	80-120			
Surrogate: Toluene-d8	10K0279			ug/kg dry					100	97	80-120			
Surrogate: 4-Bromofluorobenzene	10K0279			ug/kg dry					102	100	80-120			
QC Source Sample: WTK0164-17														
Benzene	10K0325	<25	2700	ug/kg dry	N/A	30	3010	2940	110	108	80-120	2	20	
Bromochloromethane	10K0325	<35	2700	ug/kg dry	N/A	42	3090	3110	113	114	80-120	1	20	
Bromodichloromethane	10K0325	<25	2700	ug/kg dry	N/A	30	2920	2870	107	105	80-120	2	20	
Bromoform	10K0325	<25	2700	ug/kg dry	N/A	30	2880	2790	105	102	80-120	3	20	
Bromomethane	10K0325	<100	2700	ug/kg dry	N/A	120	2940	2770	107	101	60-140	6	20	
n-Butylbenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2970	2850	109	104	80-120	4	20	
sec-Butylbenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2960	2850	108	104	80-120	4	20	
tert-Butylbenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2910	2830	106	104	80-120	3	20	
Carbon Tetrachloride	10K0325	<25	2700	ug/kg dry	N/A	30	3000	2900	110	106	60-140	3	20	
Chlorobenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2940	2880	108	105	80-120	2	20	
Chlorodibromomethane	10K0325	<25	2700	ug/kg dry	N/A	30	2830	2840	104	104	80-120	1	20	
Chloroethane	10K0325	<50	2700	ug/kg dry	N/A	60	2810	2660	103	97	60-140	6	20	
Chloroform	10K0325	<25	2700	ug/kg dry	N/A	30	3080	3000	113	110	80-120	3	20	
Chloromethane	10K0325	<50	2700	ug/kg dry	N/A	60	2700	2610	99	96	60-140	3	20	
2-Chlorotoluene	10K0325	<50	2700	ug/kg dry	N/A	60	2890	2810	106	103	80-120	3	20	
4-Chlorotoluene	10K0325	<25	2700	ug/kg dry	N/A	30	2810	2770	103	101	80-120	2	20	
1,2-Dibromo-3-chloropropane	10K0325	<50	2700	ug/kg dry	N/A	60	2830	2800	104	102	60-140	1	20	

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
VOCs by SW8260B														
QC Source Sample: WTK0164-17														
1,2-Dibromoethane (EDB)	10K0325	<25	2700	ug/kg dry	N/A	30	2950	2890	108	106	80-120	2	20	
Dibromomethane	10K0325	<25	2700	ug/kg dry	N/A	30	2980	3010	109	110	80-120	1	20	
1,2-Dichlorobenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2880	2820	105	103	80-120	2	20	
1,3-Dichlorobenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2900	2800	106	102	80-120	3	20	
1,4-Dichlorobenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2870	2800	105	102	80-120	2	20	
Dichlorodifluoromethane	10K0325	<50	2700	ug/kg dry	N/A	60	2890	2720	106	99	60-140	6	20	
1,1-Dichloroethane	10K0325	<25	2700	ug/kg dry	N/A	30	2990	2880	109	105	80-120	4	20	
1,2-Dichloroethane	10K0325	<25	2700	ug/kg dry	N/A	30	2950	2900	108	106	80-120	2	20	
1,1-Dichloroethene	10K0325	<25	2700	ug/kg dry	N/A	30	3020	2890	110	106	80-120	4	20	
cis-1,2-Dichloroethene	10K0325	<25	2700	ug/kg dry	N/A	30	3150	3050	115	112	80-120	3	20	
trans-1,2-Dichloroethene	10K0325	<25	2700	ug/kg dry	N/A	30	3020	2890	110	106	80-120	4	20	
1,2-Dichloropropane	10K0325	<25	2700	ug/kg dry	N/A	30	2890	2850	106	104	80-120	2	20	
1,3-Dichloropropane	10K0325	<25	2700	ug/kg dry	N/A	30	2850	2810	104	103	80-120	1	20	
2,2-Dichloropropane	10K0325	<25	2700	ug/kg dry	N/A	30	3060	2900	112	106	60-140	5	20	
1,1-Dichloropropene	10K0325	<25	2700	ug/kg dry	N/A	30	3090	2970	113	109	80-120	4	20	
cis-1,3-Dichloropropene	10K0325	<25	2700	ug/kg dry	N/A	30	2910	2910	106	106	80-120	0	20	
trans-1,3-Dichloropropene	10K0325	<25	2700	ug/kg dry	N/A	30	2880	2820	105	103	80-120	2	20	
Ethylbenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2980	2860	109	105	80-120	4	20	
Hexachlorobutadiene	10K0325	<35	2700	ug/kg dry	N/A	42	2960	2860	108	105	60-140	4	20	
Isopropylbenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2950	2850	108	104	80-120	4	20	
p-Isopropyltoluene	10K0325	<25	2700	ug/kg dry	N/A	30	2940	2840	108	104	80-120	4	20	
Methylene Chloride	10K0325	<50	2700	ug/kg dry	N/A	60	3090	3070	113	112	80-120	1	20	
Methyl tert-Butyl Ether	10K0325	<25	2700	ug/kg dry	N/A	30	3040	3000	111	110	80-120	1	20	
Naphthalene	10K0325	241	2700	ug/kg dry	N/A	60	3030	2950	102	99	60-140	3	20	
n-Propylbenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2970	2850	109	104	80-120	4	20	
Styrene	10K0325	<50	2700	ug/kg dry	N/A	60	2930	2860	107	104	80-120	3	20	
1,1,1,2-Tetrachloroethane	10K0325	<25	2700	ug/kg dry	N/A	30	2870	2820	105	103	80-120	2	20	
1,1,2,2-Tetrachloroethane	10K0325	<25	2700	ug/kg dry	N/A	30	2840	2790	104	102	80-120	2	20	
Tetrachloroethene	10K0325	120	2700	ug/kg dry	N/A	30	3200	3130	113	110	80-120	2	20	
Toluene	10K0325	104	2700	ug/kg dry	N/A	30	3060	2990	108	105	80-120	3	20	
1,2,3-Trichlorobenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2950	2870	108	105	80-120	3	20	
1,2,4-Trichlorobenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2940	2880	107	105	80-120	2	20	
1,1,1-Trichloroethane	10K0325	<25	2700	ug/kg dry	N/A	30	3100	2970	113	108	80-120	4	20	
1,1,2-Trichloroethane	10K0325	<35	2700	ug/kg dry	N/A	42	2910	2850	106	104	80-120	2	20	
Trichloroethene	10K0325	338	2700	ug/kg dry	N/A	30	3500	3390	116	111	80-120	3	20	
Trichlorofluoromethane	10K0325	<25	2700	ug/kg dry	N/A	30	3030	2860	111	105	80-120	6	20	
1,2,3-Trichloropropane	10K0325	<50	2700	ug/kg dry	N/A	60	2900	2710	106	99	80-120	7	20	
1,2,4-Trimethylbenzene	10K0325	96.6	2700	ug/kg dry	N/A	30	3010	2930	107	103	80-120	3	20	
1,3,5-Trimethylbenzene	10K0325	<25	2700	ug/kg dry	N/A	30	2940	2840	107	104	80-120	3	20	
Vinyl chloride	10K0325	<35	2700	ug/kg dry	N/A	42	2930	2750	107	100	80-120	7	20	
Xylenes, total	10K0325	270	8200	ug/kg dry	N/A	100	9130	8910	108	105	80-120	2	20	
Surrogate: Dibromofluoromethane	10K0325			ug/kg dry					103	103	80-120			
Surrogate: Toluene-d8	10K0325			ug/kg dry					99	99	80-120			
Surrogate: 4-Bromofluorobenzene	10K0325			ug/kg dry					101	100	80-120			

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0164
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
 Reported: 11/23/10 17:33

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
PNAs by SW8310														
QC Source Sample: WTK0164-19														
Acenaphthene	10K0272	0.00	1100	ug/kg dry	N/A	55	870		79		62-127			
Acenaphthylene	10K0272	0.00	2200	ug/kg dry	N/A	94	1870		85		68-122			
Anthracene	10K0272	0.00	110	ug/kg dry	N/A	5.5	91.9		83		50-138			
Benzo (a) anthracene	10K0272	0.00	110	ug/kg dry	N/A	5.5	113		102		45-153			
Benzo (b) fluoranthene	10K0272	0.00	220	ug/kg dry	N/A	5.5	197		89		69-149			
Benzo (k) fluoranthene	10K0272	0.00	110	ug/kg dry	N/A	5.5	119		108		66-153			
Benzo (a) pyrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	88.6		80		39-147			
Benzo (g,h,i) perylene	10K0272	0.00	220	ug/kg dry	N/A	5.5	197		89		63-152			
Chrysene	10K0272	0.00	110	ug/kg dry	N/A	5.5	108		97		53-149			
Dibenzo (a,h) anthracene	10K0272	0.00	220	ug/kg dry	N/A	8.3	242		110		81-134			
Fluoranthene	10K0272	0.00	220	ug/kg dry	N/A	11	207		94		62-143			
Fluorene	10K0272	0.00	220	ug/kg dry	N/A	11	226		103		51-133			
Indeno (1,2,3-cd) pyrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	86.7		79		55-151			
1-Methylnaphthalene	10K0272	0.00	1100	ug/kg dry	N/A	33	916		83		64-126			
2-Methylnaphthalene	10K0272	0.00	1100	ug/kg dry	N/A	33	873		79		44-131			
Naphthalene	10K0272	0.00	1100	ug/kg dry	N/A	33	880		80		60-125			
Phenanthrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	99.8		90		57-155			
Pyrene	10K0272	0.00	110	ug/kg dry	N/A	5.5	105		95		47-147			
Surrogate: 2-Fluorobiphenyl	10K0272			ug/kg dry					92		55-120			

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0164
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
Reported: 11/23/10 17:33

CERTIFICATION SUMMARY

TestAmerica Watertown

Method	Matrix	Nelac	Wisconsin
SM 2540G	Solid/Soil	X	X
SW 8082	Solid/Soil	X	X
SW 8260B	Solid/Soil	X	X
SW 8310	Solid/Soil	X	X

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0164
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/04/10
Reported: 11/23/10 17:33

DATA QUALIFIERS AND DEFINITIONS

Z3 The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

ADDITIONAL COMMENTS

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Watertown Division
602 Commerce Drive
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

WTK0164 Page 1 of 3

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: AE COM
Address: 558 N Main St
City/State/Zip Code: Oshkosh, WI 54901
Project Manager: Andrew Mott
Telephone Number: 920 236 6713
Fax: _____
Sampler Name: Heather Cleveland
Sampler Signature: [Signature]
E-mail address: andrew.mott@ae.com
heather.cleveland@ae.com

Project Name: Former Micro Plant #9
Project #: 60163491
Site/Location ID: Manitowoc State: WI
Report To: Andrew Mott / Mike Bingham
Invoice To: Mike Bingham / AFS
Quote #: _____ PO#: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix					Preservation & # of Containers					Analyze For:	QC Deliverables	REMARKS
					Sl - Sludge	DW - Drinking Water	GW - Groundwater	S - Soil/Solid	WW - Wastewater	Specify	Other	HNO ₃	HCl	NaOH			
19 MB-SB-MW-20p5-8ms10/24/10	10/24/10	1630	G	N	S												
20 MB-SB-30-2A	10/24/10	1648															
21 MB-SB-30-2A		1650															
22 MB-SB-30-9-10		1700															
23 MB-SB-40-35-4		1715															
24 MB-SB-40-35-4		1720															
25 MB-SB-40-65-8		1725															
26 MB-SB-40-115-12		1755															
27 MB-SB-50-2-4	10/21/10	1005															
28 MB-SB-50-9.5-12		1030															

Special Instructions: Supply data package in accordance with the Former Micro Plant #9 QAQC & QA PG.

Relinquished By: [Signature] Date: 11/4/10 Time: 1:40
 Relinquished By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____

Received By: [Signature] Date: 11/2/10 Time: 8:10
 Received By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

LABORATORY COMMENTS:
 Limit Lab Temp: _____ Rec Lab Temp: _____
 Custody Seals: Y N N/A
 Bottles Supplied by TestAmerica: Y N
 Method of Shipment: Feeder

December 10, 2010

Client: Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608

Work Order: WTK0653
Project Name: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc, WI

Attn: Mr. Michael Bingham

Date Received: 11/18/10

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MB-GW-MW-15	WTK0653-01	11/16/10 12:45
MB-GW-MW-15 Dup	WTK0653-02	11/16/10 12:47
MB-GW-MW-16A	WTK0653-03	11/16/10 15:12
MB-GW-MW-16A Dup	WTK0653-04	11/16/10 15:12
MB-GW-MW-16	WTK0653-05	11/16/10 15:52
MB-GW-MW-16 Dup	WTK0653-06	11/16/10 15:58
MB-GW-MW-17	WTK0653-07	11/16/10 17:00
Trip Blank	WTK0653-08	11/16/10 12:20

Samples were received on ice into laboratory at a temperature of 0 °C.

Wisconsin Certification Number: 128053530

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

Unless subcontracted, volatiles analyses (including VOC, PVO, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.

Approved By:



TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0653-01 (MB-GW-MW-15 - Ground Water)							Sampled: 11/16/10 12:45			
Metals										
Aluminum	460		ug/L	150	200	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Antimony	<0.61		ug/L	0.61	2.0	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Arsenic	1.5	J	ug/L	0.61	2.0	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Barium	79		ug/L	0.61	2.0	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Beryllium	<0.12	C	ug/L	0.12	0.40	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Cadmium	<0.12		ug/L	0.12	0.40	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Calcium	140000		ug/L	1500	5000	10	12/10/10 10:52	gsj	10K0746	SW 6020A
Chromium	0.81	J	ug/L	0.61	2.0	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Cobalt	1.0	J	ug/L	0.61	2.0	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Copper	1.8	J	ug/L	0.61	2.0	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Iron	1500		ug/L	150	500	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Lead	<0.61		ug/L	0.61	2.0	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Magnesium	63000		ug/L	1500	5000	10	12/10/10 10:52	gsj	10K0746	SW 6020A
Manganese	150		ug/L	6.1	20	10	12/10/10 10:52	gsj	10K0746	SW 6020A
Mercury	<0.000065		mg/L	0.000065	0.00023	1	11/30/10 12:03	jej	10K0740	SW 7470A
Nickel	<0.61		ug/L	0.61	2.0	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Potassium	7100		ug/L	150	500	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Selenium	<0.61		ug/L	0.61	2.0	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Silver	<0.61		ug/L	0.61	2.0	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Sodium	60000		ug/L	1500	5000	10	12/10/10 10:52	gsj	10K0746	SW 6020A
Thallium	<0.12		ug/L	0.12	0.40	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Vanadium	2.8		ug/L	0.61	2.0	1	12/10/10 10:52	gsj	10K0746	SW 6020A
Zinc	<6.0		ug/L	6.0	20	1	12/10/10 10:52	gsj	10K0746	SW 6020A
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0653-01 (MB-GW-MW-15 - Ground Water) - cont.						Sampled: 11/16/10 12:45				
VOCs by SW8260B - cont.										
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Methylene Chloride	<1.0		ug/L	1.0	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Methyl tert-Butyl Ether	0.58	J	ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	11/30/10 06:27	mae	10K0695	SW 8260B
Surr: Dibromofluoromethane (80-120%)	97 %									
Surr: Toluene-d8 (80-120%)	99 %									
Surr: 4-Bromofluorobenzene (80-120%)	99 %									

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0653-02 (MB-GW-MW-15 Dup - Ground Water)							Sampled: 11/16/10 12:47			
Metals										
Aluminum	2100		ug/L	150	200	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Antimony	<0.61		ug/L	0.61	2.0	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Arsenic	1.9	J	ug/L	0.61	2.0	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Barium	87		ug/L	0.61	2.0	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Beryllium	0.14	C, J	ug/L	0.12	0.40	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Cadmium	<0.12		ug/L	0.12	0.40	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Calcium	200000		ug/L	1500	5000	10	12/10/10 10:55	gsj	10K0746	SW 6020A
Chromium	2.6		ug/L	0.61	2.0	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Cobalt	1.9	J	ug/L	0.61	2.0	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Copper	4.4		ug/L	0.61	2.0	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Iron	3900		ug/L	150	500	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Lead	1.3	J	ug/L	0.61	2.0	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Magnesium	96000		ug/L	1500	5000	10	12/10/10 10:55	gsj	10K0746	SW 6020A
Manganese	260		ug/L	6.1	20	10	12/10/10 10:55	gsj	10K0746	SW 6020A
Mercury	<0.000065		mg/L	0.000065	0.00023	1	11/30/10 12:05	jej	10K0740	SW 7470A
Nickel	<0.61		ug/L	0.61	2.0	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Potassium	6600		ug/L	150	500	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Selenium	<0.61		ug/L	0.61	2.0	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Silver	<0.61		ug/L	0.61	2.0	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Sodium	56000		ug/L	1500	5000	10	12/10/10 10:55	gsj	10K0746	SW 6020A
Thallium	<0.12		ug/L	0.12	0.40	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Vanadium	6.9		ug/L	0.61	2.0	1	12/10/10 10:55	gsj	10K0746	SW 6020A
Zinc	6.4	J	ug/L	6.0	20	1	12/10/10 10:55	gsj	10K0746	SW 6020A

Sample ID: WTK0653-03 (MB-GW-MW-16A - Ground Water)

Sampled: 11/16/10 15:12

VOCs by SW8260B

Benzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0653-03 (MB-GW-MW-16A - Ground Water) - cont.							Sampled: 11/16/10 15:12			
VOCs by SW8260B - cont.										
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Methylene Chloride	<1.0		ug/L	1.0	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	11/30/10 06:54	mae	10K0695	SW 8260B
Surr: Dibromofluoromethane (80-120%)	97 %									
Surr: Toluene-d8 (80-120%)	99 %									
Surr: 4-Bromofluorobenzene (80-120%)	100 %									

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0653-04 (MB-GW-MW-16A Dup - Ground Water)							Sampled: 11/16/10 15:12			
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Methylene Chloride	<1.0		ug/L	1.0	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0653-04 (MB-GW-MW-16A Dup - Ground Water) - cont.						Sampled: 11/16/10 15:12				
VOCs by SW8260B - cont.										
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	11/30/10 07:21	mae	10K0695	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	97 %									
<i>Surr: Toluene-d8 (80-120%)</i>	99 %									
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	99 %									
Sample ID: WTK0653-05 (MB-GW-MW-16 - Ground Water)						Sampled: 11/16/10 15:52				
Metals										
Aluminum	<150		ug/L	150	200	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Antimony	<0.61		ug/L	0.61	2.0	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Arsenic	3.5		ug/L	0.61	2.0	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Barium	30		ug/L	0.61	2.0	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Beryllium	<0.12	C	ug/L	0.12	0.40	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Cadmium	<0.12		ug/L	0.12	0.40	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Calcium	73000		ug/L	750	2500	5	12/10/10 10:57	gsj	10K0746	SW 6020A
Chromium	<0.61		ug/L	0.61	2.0	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Cobalt	<0.61		ug/L	0.61	2.0	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Copper	1.2	J	ug/L	0.61	2.0	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Iron	420	J	ug/L	150	500	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Lead	<0.61		ug/L	0.61	2.0	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Magnesium	37000		ug/L	750	2500	5	12/10/10 10:57	gsj	10K0746	SW 6020A
Manganese	100		ug/L	0.61	2.0	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Mercury	<0.000065		mg/L	0.000065	0.00023	1	11/30/10 12:07	jej	10K0740	SW 7470A
Nickel	<0.61		ug/L	0.61	2.0	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Potassium	560		ug/L	150	500	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Selenium	<0.61		ug/L	0.61	2.0	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Silver	<0.61		ug/L	0.61	2.0	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Sodium	17000		ug/L	150	500	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Thallium	<0.12		ug/L	0.12	0.40	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Vanadium	1.5	J	ug/L	0.61	2.0	1	12/10/10 10:57	gsj	10K0746	SW 6020A
Zinc	<6.0		ug/L	6.0	20	1	12/10/10 10:57	gsj	10K0746	SW 6020A
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
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Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0653-05 (MB-GW-MW-16 - Ground Water) - cont.							Sampled: 11/16/10 15:52			
VOCs by SW8260B - cont.										
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
cis-1,2-Dichloroethene	2.9		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Methylene Chloride	<1.0		ug/L	1.0	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	11/30/10 07:48	mae	10K0695	SW 8260B
Surr: Dibromofluoromethane (80-120%) 97 %										

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Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0653-05 (MB-GW-MW-16 - Ground Water) - cont.						Sampled: 11/16/10 15:52				
VOCs by SW8260B - cont.										
<i>Surr: Toluene-d8 (80-120%)</i>	99 %									
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	99 %									
PNAs by SW8310										
Acenaphthene	<0.34		ug/L	0.34	1.4	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Acenaphthylene	<0.72		ug/L	0.72	2.6	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Anthracene	<0.040		ug/L	0.040	0.14	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Benzo (a) anthracene	<0.046		ug/L	0.046	0.14	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Benzo (b) fluoranthene	<0.10		ug/L	0.10	0.26	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Benzo (k) fluoranthene	<0.051		ug/L	0.051	0.14	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Benzo (a) pyrene	<0.033		ug/L	0.033	0.14	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Benzo (g,h,i) perylene	<0.13		ug/L	0.13	0.26	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Chrysene	<0.043		ug/L	0.043	0.14	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Dibenzo (a,h) anthracene	<0.14		ug/L	0.14	0.26	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Fluoranthene	<0.084		ug/L	0.084	0.26	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Fluorene	<0.065		ug/L	0.065	0.26	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Indeno (1,2,3-cd) pyrene	<0.065		ug/L	0.065	0.14	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
1-Methylnaphthalene	<0.33		ug/L	0.33	1.4	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
2-Methylnaphthalene	<0.32		ug/L	0.32	1.4	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Naphthalene	<0.42		ug/L	0.42	1.4	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Phenanthrene	<0.031		ug/L	0.031	0.14	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
Pyrene	<0.046		ug/L	0.046	0.14	1.0	12/09/10 11:22	CLJ	10K0576	SW 8310
<i>Surr: 2-Fluorobiphenyl (16-138%)</i>	92 %									
Sample ID: WTK0653-06 (MB-GW-MW-16 Dup - Ground Water)						Sampled: 11/16/10 15:58				
PNAs by SW8310										
Acenaphthene	<0.36		ug/L	0.36	1.4	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Acenaphthylene	<0.75		ug/L	0.75	2.7	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Anthracene	<0.041		ug/L	0.041	0.14	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Benzo (a) anthracene	<0.048		ug/L	0.048	0.14	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Benzo (b) fluoranthene	<0.11		ug/L	0.11	0.27	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Benzo (k) fluoranthene	<0.053		ug/L	0.053	0.14	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Benzo (a) pyrene	<0.035		ug/L	0.035	0.14	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Benzo (g,h,i) perylene	<0.13		ug/L	0.13	0.27	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Chrysene	<0.045		ug/L	0.045	0.14	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Dibenzo (a,h) anthracene	<0.14		ug/L	0.14	0.27	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Fluoranthene	<0.088		ug/L	0.088	0.27	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Fluorene	<0.067		ug/L	0.067	0.27	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Indeno (1,2,3-cd) pyrene	<0.067		ug/L	0.067	0.14	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
1-Methylnaphthalene	<0.35		ug/L	0.35	1.4	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
2-Methylnaphthalene	<0.34		ug/L	0.34	1.4	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Naphthalene	<0.43		ug/L	0.43	1.4	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Phenanthrene	<0.033		ug/L	0.033	0.14	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
Pyrene	<0.048		ug/L	0.048	0.14	1.1	12/09/10 11:43	CLJ	10K0576	SW 8310
<i>Surr: 2-Fluorobiphenyl (16-138%)</i>	100 %									

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Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0653-07 (MB-GW-MW-17 - Ground Water)							Sampled: 11/16/10 17:00			
Metals										
Aluminum	3800		ug/L	150	200	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Antimony	1.1	J	ug/L	0.61	2.0	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Arsenic	1.7	J	ug/L	0.61	2.0	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Barium	140		ug/L	12	40	20	12/10/10 10:59	gsj	10K0746	SW 6020A
Beryllium	0.25	C, J	ug/L	0.12	0.40	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Cadmium	<0.12		ug/L	0.12	0.40	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Calcium	310000		ug/L	3000	10000	20	12/10/10 10:59	gsj	10K0746	SW 6020A
Chromium	7.0		ug/L	0.61	2.0	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Cobalt	5.3		ug/L	0.61	2.0	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Copper	17		ug/L	0.61	2.0	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Iron	7800		ug/L	150	500	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Lead	3.9		ug/L	0.61	2.0	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Magnesium	230000		ug/L	3000	10000	20	12/10/10 10:59	gsj	10K0746	SW 6020A
Manganese	320		ug/L	12	40	20	12/10/10 10:59	gsj	10K0746	SW 6020A
Nickel	4.9		ug/L	0.61	2.0	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Potassium	34000		ug/L	3000	10000	20	12/10/10 10:59	gsj	10K0746	SW 6020A
Selenium	0.89	J, B	ug/L	0.61	2.0	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Silver	<0.61		ug/L	0.61	2.0	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Sodium	170000		ug/L	3000	10000	20	12/10/10 10:59	gsj	10K0746	SW 6020A
Thallium	<0.12		ug/L	0.12	0.40	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Vanadium	22		ug/L	0.61	2.0	1	12/10/10 10:59	gsj	10K0746	SW 6020A
Zinc	14	J	ug/L	6.0	20	1	12/10/10 10:59	gsj	10K0746	SW 6020A
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0653-07 (MB-GW-MW-17 - Ground Water) - cont.						Sampled: 11/16/10 17:00				
VOCs by SW8260B - cont.										
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Methylene Chloride	<1.0		ug/L	1.0	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	11/30/10 08:15	mae	10K0695	SW 8260B
Surr: Dibromofluoromethane (80-120%)	95 %									
Surr: Toluene-d8 (80-120%)	99 %									
Surr: 4-Bromofluorobenzene (80-120%)	98 %									

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0653-08 (Trip Blank - Water - NonPotable)							Sampled: 11/16/10 12:20			
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Methylene Chloride	<1.0		ug/L	1.0	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0653-08 (Trip Blank - Water - NonPotable) - cont.							Sampled: 11/16/10 12:20			
VOCs by SW8260B - cont.										
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	11/30/10 08:42	mae	10K0695	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>97 %</i>									
<i>Surr: Toluene-d8 (80-120%)</i>	<i>99 %</i>									
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>99 %</i>									

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Work Order: WTK0653
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
Reported: 12/10/10 14:48

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
BNAs by SW8270C							
n/a		WTK0653-05					
n/a		WTK0653-06					
PNAs by SW8310							
SW 8310	10K0576	WTK0653-05	960	2	11/22/10 09:32	TLH	PNA8310/610
SW 8310	10K0576	WTK0653-06	920	2	11/22/10 09:32	TLH	PNA8310/610

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 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Metals														
Mercury	10K0740			mg/L	0.000065	0.00023	<0.000065							
Aluminum	10K0746			ug/L	150	200	<150							
Antimony	10K0746			ug/L	0.61	2.0	1.08							B,J
Arsenic	10K0746			ug/L	0.61	2.0	<0.61							
Barium	10K0746			ug/L	0.61	2.0	<0.61							
Beryllium	10K0746			ug/L	0.12	0.40	<0.12							
Cadmium	10K0746			ug/L	0.12	0.40	<0.12							
Calcium	10K0746			ug/L	150	500	<150							
Chromium	10K0746			ug/L	0.61	2.0	<0.61							
Cobalt	10K0746			ug/L	0.61	2.0	<0.61							
Copper	10K0746			ug/L	0.61	2.0	<0.61							
Iron	10K0746			ug/L	150	500	<150							
Lead	10K0746			ug/L	0.61	2.0	<0.61							
Magnesium	10K0746			ug/L	150	500	<150							
Manganese	10K0746			ug/L	0.61	2.0	<0.61							
Nickel	10K0746			ug/L	0.61	2.0	<0.61							
Potassium	10K0746			ug/L	150	500	<150							
Selenium	10K0746			ug/L	0.61	2.0	0.840							B,J
Silver	10K0746			ug/L	0.61	2.0	<0.61							
Sodium	10K0746			ug/L	150	500	<150							
Thallium	10K0746			ug/L	0.12	0.40	<0.12							
Vanadium	10K0746			ug/L	0.61	2.0	<0.61							
Zinc	10K0746			ug/L	6.0	20	<6.0							
VOCs by SW8260B														
Benzene	10K0695			ug/L	0.20	2.0	<0.20							
Bromobenzene	10K0695			ug/L	0.20	2.0	<0.20							
Bromochloromethane	10K0695			ug/L	0.50	2.0	<0.50							
Bromodichloromethane	10K0695			ug/L	0.20	2.0	<0.20							
Bromoform	10K0695			ug/L	0.20	5.0	<0.20							
Bromomethane	10K0695			ug/L	0.50	5.0	<0.50							
n-Butylbenzene	10K0695			ug/L	0.20	2.0	<0.20							
sec-Butylbenzene	10K0695			ug/L	0.25	2.0	<0.25							
tert-Butylbenzene	10K0695			ug/L	0.20	2.0	<0.20							
Carbon Tetrachloride	10K0695			ug/L	0.80	2.0	<0.80							
Chlorobenzene	10K0695			ug/L	0.20	2.0	<0.20							
Chlorodibromomethane	10K0695			ug/L	0.20	2.0	<0.20							
Chloroethane	10K0695			ug/L	1.0	5.0	<1.0							
Chloroform	10K0695			ug/L	0.20	2.0	<0.20							
Chloromethane	10K0695			ug/L	0.30	2.0	<0.30							
2-Chlorotoluene	10K0695			ug/L	0.50	2.0	<0.50							
4-Chlorotoluene	10K0695			ug/L	0.20	2.0	<0.20							
1,2-Dibromo-3-chloropropane	10K0695			ug/L	0.50	2.0	<0.50							
1,2-Dibromoethane (EDB)	10K0695			ug/L	0.20	2.0	<0.20							
Dibromomethane	10K0695			ug/L	0.20	2.0	<0.20							

Advanced Environmental Solutions, Inc.
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Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
1,2-Dichlorobenzene	10K0695			ug/L	0.20	2.0	<0.20							
1,3-Dichlorobenzene	10K0695			ug/L	0.20	2.0	<0.20							
1,4-Dichlorobenzene	10K0695			ug/L	0.50	2.0	<0.50							
Dichlorodifluoromethane	10K0695			ug/L	0.50	2.0	<0.50							
1,1-Dichloroethane	10K0695			ug/L	0.50	2.0	<0.50							
1,2-Dichloroethane	10K0695			ug/L	0.50	2.0	<0.50							
1,1-Dichloroethene	10K0695			ug/L	0.50	2.0	<0.50							
cis-1,2-Dichloroethene	10K0695			ug/L	0.50	2.0	<0.50							
trans-1,2-Dichloroethene	10K0695			ug/L	0.50	2.0	<0.50							
1,2-Dichloropropane	10K0695			ug/L	0.50	2.0	<0.50							
1,3-Dichloropropane	10K0695			ug/L	0.25	2.0	<0.25							
2,2-Dichloropropane	10K0695			ug/L	0.50	2.0	<0.50							
1,1-Dichloropropene	10K0695			ug/L	0.50	2.0	<0.50							
cis-1,3-Dichloropropene	10K0695			ug/L	0.20	2.0	<0.20							
trans-1,3-Dichloropropene	10K0695			ug/L	0.20	2.0	<0.20							
2,3-Dichloropropene	10K0695			ug/L	0.25	2.0	<0.25							
Isopropyl Ether	10K0695			ug/L	0.50	2.0	<0.50							
Ethylbenzene	10K0695			ug/L	0.50	2.0	<0.50							
Hexachlorobutadiene	10K0695			ug/L	0.50	2.0	<0.50							
Isopropylbenzene	10K0695			ug/L	0.20	2.0	<0.20							
p-Isopropyltoluene	10K0695			ug/L	0.20	2.0	<0.20							
Methylene Chloride	10K0695			ug/L	1.0	2.0	<1.0							
Methyl tert-Butyl Ether	10K0695			ug/L	0.50	2.0	<0.50							
Naphthalene	10K0695			ug/L	0.25	5.0	<0.25							
n-Propylbenzene	10K0695			ug/L	0.50	2.0	<0.50							
Styrene	10K0695			ug/L	0.50	5.0	<0.50							
1,1,1,2-Tetrachloroethane	10K0695			ug/L	0.25	2.0	<0.25							
1,1,2,2-Tetrachloroethane	10K0695			ug/L	0.20	2.0	<0.20							
Tetrachloroethene	10K0695			ug/L	0.50	2.0	<0.50							
Toluene	10K0695			ug/L	0.50	2.0	<0.50							
1,2,3-Trichlorobenzene	10K0695			ug/L	0.25	2.0	<0.25							
1,2,4-Trichlorobenzene	10K0695			ug/L	0.25	2.0	<0.25							
1,1,1-Trichloroethane	10K0695			ug/L	0.50	2.0	<0.50							
1,1,2-Trichloroethane	10K0695			ug/L	0.25	2.0	<0.25							
Trichloroethene	10K0695			ug/L	0.20	2.0	<0.20							
Trichlorofluoromethane	10K0695			ug/L	0.50	2.0	<0.50							
1,2,3-Trichloropropane	10K0695			ug/L	0.50	2.0	<0.50							
1,2,4-Trimethylbenzene	10K0695			ug/L	0.20	2.0	<0.20							
1,3,5-Trimethylbenzene	10K0695			ug/L	0.20	2.0	<0.20							
Vinyl chloride	10K0695			ug/L	0.20	2.0	<0.20							
Xylenes, Total	10K0695			ug/L	0.50	2.0	<0.50							
Surrogate: Dibromofluoromethane	10K0695			ug/L					101		80-120			
Surrogate: Toluene-d8	10K0695			ug/L					99		80-120			
Surrogate: 4-Bromofluorobenzene	10K0695			ug/L					98		80-120			
Pentafluorobenzene	10K0695		50	ug/L	N/A	N/A	50.0		100		50-200			

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 Reported: 12/10/10 14:48

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B													
1,4-Difluorobenzene	10K0695		50	ug/L	N/A	N/A	50.0	100		50-200			
Chlorobenzene-d5	10K0695		50	ug/L	N/A	N/A	50.0	100		50-200			
1,4-Dichlorobenzene-d4	10K0695		50	ug/L	N/A	N/A	50.0	100		50-200			
PNAs by SW8310													
Acenaphthene	10K0576			ug/L	0.33	1.3	<0.33						
Acenaphthylene	10K0576			ug/L	0.69	2.5	<0.69						
Anthracene	10K0576			ug/L	0.038	0.13	<0.038						
Benzo (a) anthracene	10K0576			ug/L	0.044	0.13	<0.044						
Benzo (b) fluoranthene	10K0576			ug/L	0.098	0.25	<0.098						
Benzo (k) fluoranthene	10K0576			ug/L	0.049	0.13	<0.049						
Benzo (a) pyrene	10K0576			ug/L	0.032	0.13	<0.032						
Benzo (g,h,i) perylene	10K0576			ug/L	0.12	0.25	<0.12						
Chrysene	10K0576			ug/L	0.041	0.13	<0.041						
Dibenzo (a,h) anthracene	10K0576			ug/L	0.13	0.25	<0.13						
Fluoranthene	10K0576			ug/L	0.081	0.25	<0.081						
Fluorene	10K0576			ug/L	0.062	0.25	<0.062						
Indeno (1,2,3-cd) pyrene	10K0576			ug/L	0.062	0.13	<0.062						
1-Methylnaphthalene	10K0576			ug/L	0.32	1.3	<0.32						
2-Methylnaphthalene	10K0576			ug/L	0.31	1.3	<0.31						
Naphthalene	10K0576			ug/L	0.40	1.3	<0.40						
Phenanthrene	10K0576			ug/L	0.030	0.13	<0.030						
Pyrene	10K0576			ug/L	0.044	0.13	<0.044						
Surrogate: 2-Fluorobiphenyl	10K0576			ug/L				101		16-138			

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 Reported: 12/10/10 14:48

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Metals													
Mercury	10K0740		0.0025	mg/L	0.000065	0.00023	0.00244	98		78-131			
Aluminum	10K0746		5100	ug/L	150	200	4750	94		85-115			
Antimony	10K0746		50	ug/L	0.61	2.0	52.1	104		85-115			
Arsenic	10K0746		50	ug/L	0.61	2.0	52.8	106		85-115			
Barium	10K0746		50	ug/L	0.61	2.0	52.6	105		85-115			
Beryllium	10K0746		50	ug/L	0.12	0.40	56.5	113		85-115			
Cadmium	10K0746		50	ug/L	0.12	0.40	51.3	103		85-115			
Calcium	10K0746		5100	ug/L	150	500	5270	104		85-115			
Chromium	10K0746		50	ug/L	0.61	2.0	50.8	102		85-115			
Cobalt	10K0746		50	ug/L	0.61	2.0	49.9	100		85-115			
Copper	10K0746		50	ug/L	0.61	2.0	52.8	106		85-115			
Iron	10K0746		5100	ug/L	150	500	4920	97		85-115			
Lead	10K0746		50	ug/L	0.61	2.0	48.3	97		85-115			
Magnesium	10K0746		5100	ug/L	150	500	5070	100		85-115			
Manganese	10K0746		50	ug/L	0.61	2.0	53.4	107		85-115			
Nickel	10K0746		50	ug/L	0.61	2.0	54.6	109		85-115			
Potassium	10K0746		5100	ug/L	150	500	4740	94		85-115			
Selenium	10K0746		50	ug/L	0.61	2.0	53.5	107		85-115			B
Silver	10K0746		50	ug/L	0.61	2.0	49.3	99		85-115			
Sodium	10K0746		5100	ug/L	150	500	4970	98		85-115			
Thallium	10K0746		50	ug/L	0.12	0.40	48.5	97		85-115			
Vanadium	10K0746		50	ug/L	0.61	2.0	51.7	103		85-115			
Zinc	10K0746		50	ug/L	6.0	20	50.3	101		85-115			
PNAs by SW8310													
Acenaphthene	10K0576		10	ug/L	0.33	1.3	9.40	94		41-126			
Acenaphthylene	10K0576		20	ug/L	0.69	2.5	19.2	96		42-126			
Anthracene	10K0576		1.0	ug/L	0.038	0.13	0.996	100		34-128			
Benzo (a) anthracene	10K0576		1.0	ug/L	0.044	0.13	1.07	107		62-115			
Benzo (b) fluoranthene	10K0576		2.0	ug/L	0.098	0.25	2.10	105		72-127			
Benzo (k) fluoranthene	10K0576		1.0	ug/L	0.049	0.13	1.06	106		73-124			
Benzo (a) pyrene	10K0576		1.0	ug/L	0.032	0.13	0.983	98		41-126			
Benzo (g,h,i) perylene	10K0576		2.0	ug/L	0.12	0.25	2.14	107		69-120			
Chrysene	10K0576		1.0	ug/L	0.041	0.13	1.14	114		66-118			
Dibenzo (a,h) anthracene	10K0576		2.0	ug/L	0.13	0.25	2.19	109		71-123			
Fluoranthene	10K0576		2.0	ug/L	0.081	0.25	2.03	102		60-128			
Fluorene	10K0576		2.0	ug/L	0.062	0.25	2.25	113		43-140			
Indeno (1,2,3-cd) pyrene	10K0576		1.0	ug/L	0.062	0.13	1.15	115		67-118			
1-Methylnaphthalene	10K0576		10	ug/L	0.32	1.3	9.68	97		34-123			
2-Methylnaphthalene	10K0576		10	ug/L	0.31	1.3	9.36	94		28-119			
Naphthalene	10K0576		10	ug/L	0.40	1.3	9.55	95		34-120			
Phenanthrene	10K0576		1.0	ug/L	0.030	0.13	0.962	96		54-133			
Pyrene	10K0576		1.0	ug/L	0.044	0.13	1.15	115		56-121			
Surrogate: 2-Fluorobiphenyl	10K0576			ug/L				101		52-116			

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Work Order: WTK0653
 Project: Former Mirro Plant
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 Reported: 12/10/10 14:48

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q	
Metals														
QC Source Sample: WTK0859-02														
Mercury	10K0740	<0.000065	0.0025	mg/L	0.000065	0.00023	0.00238	0.00235	95	94	67-141	1	13	
QC Source Sample: WTK0859-02														
Aluminum	10K0746	326	5100	ug/L	150	200	5320	5350	99	100	75-125	1	20	
Antimony	10K0746	<0.61	50	ug/L	0.61	2.0	54.3	51.7	109	103	75-125	5	20	
Arsenic	10K0746	0.810	50	ug/L	0.61	2.0	52.3	51.2	103	101	75-125	2	20	
Barium	10K0746	206	50	ug/L	6.1	20	270	259	128	107	75-125	4	20	MHA
Beryllium	10K0746	<0.12	50	ug/L	0.12	0.40	57.9	54.1	116	108	75-125	7	20	
Cadmium	10K0746	<0.12	50	ug/L	0.12	0.40	52.0	49.9	104	100	75-125	4	20	
Calcium	10K0746	203000	5100	ug/L	1500	5000	221000	216000	344	254	75-125	2	20	MHA
Chromium	10K0746	<0.61	50	ug/L	0.61	2.0	43.6	41.5	87	83	75-125	5	20	
Cobalt	10K0746	0.650	50	ug/L	0.61	2.0	41.8	40.1	82	79	75-125	4	20	
Copper	10K0746	1.39	50	ug/L	0.61	2.0	48.5	47.1	94	91	75-125	3	20	
Iron	10K0746	2770	5100	ug/L	150	500	7280	7080	89	85	75-125	3	20	
Lead	10K0746	<0.61	50	ug/L	0.61	2.0	53.3	51.1	107	102	75-125	4	20	
Magnesium	10K0746	80900	5100	ug/L	1500	5000	88800	89200	156	164	75-125	0	20	MHA
Manganese	10K0746	225	50	ug/L	6.1	20	296	289	141	127	75-125	2	20	MHA
Nickel	10K0746	<0.61	50	ug/L	0.61	2.0	43.2	43.0	86	86	75-125	1	20	
Potassium	10K0746	12500	5100	ug/L	150	500	16600	15900	81	67	75-125	4	20	M2
Selenium	10K0746	<0.61	50	ug/L	0.61	2.0	54.3	53.4	109	107	75-125	2	20	B
Silver	10K0746	<0.61	50	ug/L	0.61	2.0	37.2	34.3	74	69	75-125	8	20	M2
Sodium	10K0746	150000	5100	ug/L	1500	5000	162000	162000	233	228	75-125	0	20	MHA
Thallium	10K0746	<0.12	50	ug/L	0.12	0.40	55.4	53.1	111	106	75-125	4	20	
Vanadium	10K0746	1.65	50	ug/L	0.61	2.0	46.5	44.6	90	86	75-125	4	20	
Zinc	10K0746	<6.0	50	ug/L	6.0	20	50.4	48.7	101	97	75-125	4	20	
VOCs by SW8260B														
QC Source Sample: WTK0636-09RE1														
Benzene	10K0695	<0.20	500	ug/L	2.0	20	554	543	111	109	80-120	2	20	
Bromobenzene	10K0695	<0.20	500	ug/L	2.0	20	513	523	103	105	80-120	2	24	
Bromochloromethane	10K0695	<0.50	500	ug/L	5.0	20	532	530	106	106	80-120	0	14	
Bromodichloromethane	10K0695	<0.20	500	ug/L	2.0	20	545	537	109	107	80-120	1	19	
Bromoform	10K0695	<0.20	500	ug/L	2.0	50	495	480	99	96	80-120	3	26	
Bromomethane	10K0695	<0.50	500	ug/L	5.0	50	607	597	121	119	60-140	2	18	
n-Butylbenzene	10K0695	12.9	500	ug/L	2.0	20	538	539	105	105	80-120	0	19	
sec-Butylbenzene	10K0695	4.90	500	ug/L	2.5	20	519	529	103	105	80-120	2	19	
tert-Butylbenzene	10K0695	<0.20	500	ug/L	2.0	20	519	533	104	107	80-120	3	17	
Carbon Tetrachloride	10K0695	<0.80	500	ug/L	8.0	20	518	507	104	101	60-140	2	17	
Chlorobenzene	10K0695	<0.20	500	ug/L	2.0	20	531	521	106	104	80-120	2	16	
Chlorodibromomethane	10K0695	<0.20	500	ug/L	2.0	20	533	526	107	105	80-120	1	23	
Chloroethane	10K0695	<1.0	500	ug/L	10	50	567	527	113	105	60-140	7	17	
Chloroform	10K0695	<0.20	500	ug/L	2.0	20	543	536	109	107	80-120	1	14	
Chloromethane	10K0695	<0.30	500	ug/L	3.0	20	600	557	120	111	60-140	7	16	
2-Chlorotoluene	10K0695	<0.50	500	ug/L	5.0	20	510	506	102	101	80-120	1	26	
4-Chlorotoluene	10K0695	<0.20	500	ug/L	2.0	20	508	503	102	101	80-120	1	26	
1,2-Dibromo-3-chloropropane	10K0695	<0.50	500	ug/L	5.0	20	514	472	103	94	60-140	9	26	
1,2-Dibromoethane (EDB)	10K0695	<0.20	500	ug/L	2.0	20	515	498	103	100	80-120	3	19	
Dibromomethane	10K0695	<0.20	500	ug/L	2.0	20	516	505	103	101	80-120	2	26	
1,2-Dichlorobenzene	10K0695	<0.20	500	ug/L	2.0	20	521	519	104	104	80-120	0	23	

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B													
QC Source Sample: WTK0636-09RE1													
1,3-Dichlorobenzene	10K0695	<0.20	500	ug/L	2.0	20	517	519	103	104	80-120	0	21
1,4-Dichlorobenzene	10K0695	<0.50	500	ug/L	5.0	20	515	515	103	103	80-120	0	21
Dichlorodifluoromethane	10K0695	<0.50	500	ug/L	5.0	20	563	526	113	105	60-140	7	19
1,1-Dichloroethane	10K0695	<0.50	500	ug/L	5.0	20	551	539	110	108	80-120	2	18
1,2-Dichloroethane	10K0695	<0.50	500	ug/L	5.0	20	523	519	105	104	80-120	1	19
1,1-Dichloroethene	10K0695	<0.50	500	ug/L	5.0	20	569	537	114	107	80-120	6	18
cis-1,2-Dichloroethene	10K0695	173	500	ug/L	5.0	20	740	727	113	111	80-120	2	17
trans-1,2-Dichloroethene	10K0695	<0.50	500	ug/L	5.0	20	563	550	113	110	80-120	2	23
1,2-Dichloropropane	10K0695	<0.50	500	ug/L	5.0	20	544	535	109	107	80-120	2	18
1,3-Dichloropropane	10K0695	<0.25	500	ug/L	2.5	20	526	515	105	103	80-120	2	24
2,2-Dichloropropane	10K0695	<0.50	500	ug/L	5.0	20	514	501	103	100	60-140	3	16
1,1-Dichloropropene	10K0695	<0.50	500	ug/L	5.0	20	552	542	110	108	80-120	2	16
cis-1,3-Dichloropropene	10K0695	<0.20	500	ug/L	2.0	20	545	540	109	108	80-120	1	20
trans-1,3-Dichloropropene	10K0695	<0.20	500	ug/L	2.0	20	530	522	106	104	80-120	2	26
Isopropyl Ether	10K0695	<0.50	500	ug/L	5.0	20	546	544	109	109	80-120	0	20
Ethylbenzene	10K0695	68.4	500	ug/L	5.0	20	605	594	107	105	80-120	2	16
Hexachlorobutadiene	10K0695	<0.50	500	ug/L	5.0	20	502	517	100	103	60-140	3	20
Isopropylbenzene	10K0695	13.1	500	ug/L	2.0	20	535	532	104	104	80-120	1	22
p-Isopropyltoluene	10K0695	6.40	500	ug/L	2.0	20	512	518	101	102	80-120	1	20
Methylene Chloride	10K0695	<1.0	500	ug/L	10	20	546	540	109	108	80-120	1	24
Methyl tert-Butyl Ether	10K0695	<0.50	500	ug/L	5.0	20	542	532	108	106	80-120	2	18
Naphthalene	10K0695	540	500	ug/L	2.5	50	1220	980	136	88	60-140	22	24
n-Propylbenzene	10K0695	23.3	500	ug/L	5.0	20	538	532	103	102	80-120	1	23
Styrene	10K0695	<0.50	500	ug/L	5.0	50	545	537	109	107	80-120	1	14
1,1,1,2-Tetrachloroethane	10K0695	<0.25	500	ug/L	2.5	20	534	528	107	106	80-120	1	17
1,1,2,2-Tetrachloroethane	10K0695	<0.20	500	ug/L	2.0	20	502	479	100	96	80-120	5	26
Tetrachloroethene	10K0695	<0.50	500	ug/L	5.0	20	525	513	105	103	80-120	2	18
Toluene	10K0695	<0.50	500	ug/L	5.0	20	538	529	108	106	80-120	2	18
1,2,3-Trichlorobenzene	10K0695	<0.25	500	ug/L	2.5	20	515	490	103	98	80-120	5	24
1,2,4-Trichlorobenzene	10K0695	<0.25	500	ug/L	2.5	20	523	521	105	104	80-120	1	21
1,1,1-Trichloroethane	10K0695	<0.50	500	ug/L	5.0	20	552	537	110	107	80-120	3	19
1,1,2-Trichloroethane	10K0695	<0.25	500	ug/L	2.5	20	521	510	104	102	80-120	2	28
Trichloroethene	10K0695	<0.20	500	ug/L	2.0	20	545	529	109	106	80-120	3	18
Trichlorofluoromethane	10K0695	<0.50	500	ug/L	5.0	20	547	517	109	103	80-120	6	19
1,2,3-Trichloropropane	10K0695	<0.50	500	ug/L	5.0	20	490	458	98	92	80-120	7	26
1,2,4-Trimethylbenzene	10K0695	282	500	ug/L	2.0	20	893	805	122	105	80-120	10	24
1,3,5-Trimethylbenzene	10K0695	29.8	500	ug/L	2.0	20	556	551	105	104	80-120	1	24
Vinyl chloride	10K0695	<0.20	500	ug/L	2.0	20	596	548	119	110	80-120	8	17
Xylenes, Total	10K0695	61.3	1500	ug/L	5.0	20	1670	1640	107	105	80-120	2	13
Surrogate: Dibromofluoromethane	10K0695			ug/L					99	100	80-120		
Surrogate: Toluene-d8	10K0695			ug/L					100	99	80-120		
Surrogate: 4-Bromofluorobenzene	10K0695			ug/L					98	99	80-120		
Pentafluorobenzene	10K0695	ND	50	ug/L	N/A	N/A	50.0	50.0	100	100	50-200		
1,4-Difluorobenzene	10K0695	ND	50	ug/L	N/A	N/A	50.0	50.0	100	100	50-200		
Chlorobenzene-d5	10K0695	ND	50	ug/L	N/A	N/A	50.0	50.0	100	100	50-200		

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0653
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
 Reported: 12/10/10 14:48

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B													
QC Source Sample: WTK0636-09RE1													
1,4-Dichlorobenzene-d4	10K0695	ND	50	ug/L	N/A	N/A	50.0	50.0	100	100	50-200		
PNAs by SW8310													
QC Source Sample: WTK0616-01													
Acenaphthene	10K0576	91.0	10	ug/L	0.33	1.3	7.51	9.19	-835	-819	34-125	20	40
Acenaphthylene	10K0576	69.8	20	ug/L	0.69	2.5	16.7	20.0	-265	-249	36-129	18	41
Anthracene	10K0576	7.76	1.0	ug/L	0.038	0.13	0.851	0.978	-691	-678	37-130	14	48
Benzo (a) anthracene	10K0576	5.58	1.0	ug/L	0.044	0.13	1.01	1.09	-457	-448	36-133	8	38
Benzo (b) fluoranthene	10K0576	3.77	2.0	ug/L	0.098	0.25	1.99	2.04	-89	-86	54-133	3	30
Benzo (k) fluoranthene	10K0576	1.91	1.0	ug/L	0.049	0.13	0.980	1.01	-93	-89	39-143	3	31
Benzo (a) pyrene	10K0576	6.16	1.0	ug/L	0.032	0.13	0.889	0.937	-527	-522	25-139	5	36
Benzo (g,h,i) perylene	10K0576	4.75	2.0	ug/L	0.12	0.25	1.98	2.05	-139	-135	51-133	3	39
Chrysene	10K0576	4.21	1.0	ug/L	0.041	0.13	1.06	1.11	-315	-310	40-130	5	33
Dibenzo (a,h) anthracene	10K0576	5.69	2.0	ug/L	0.13	0.25	1.99	2.08	-185	-180	39-143	4	31
Fluoranthene	10K0576	18.4	2.0	ug/L	0.081	0.25	2.00	2.30	-821	-805	42-134	14	34
Fluorene	10K0576	57.1	2.0	ug/L	0.062	0.25	1.97	2.31	-2760	-2740	38-135	16	40
Indeno (1,2,3-cd) pyrene	10K0576	3.97	1.0	ug/L	0.062	0.13	1.06	1.07	-291	-291	47-129	1	32
1-Methylnaphthalene	10K0576	151	10	ug/L	0.32	1.3	7.42	9.08	-1440	-1420	24-124	20	42
2-Methylnaphthalene	10K0576	167	10	ug/L	0.31	1.3	7.01	8.78	-1600	-1580	22-121	22	42
Naphthalene	10K0576	4460	10	ug/L	0.40	1.3	7.37	8.68	-44500	-44500	25-122	16	44
Phenanthrene	10K0576	56.6	1.0	ug/L	0.030	0.13	0.831	1.01	-5580	-5560	40-138	19	37
Pyrene	10K0576	25.0	1.0	ug/L	0.044	0.13	1.12	1.40	-2390	-2360	33-128	22	46
Surrogate: 2-Fluorobiphenyl	10K0576			ug/L					68	75	50-107		

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0653
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
Reported: 12/10/10 14:48

CERTIFICATION SUMMARY

TestAmerica Watertown

Method	Matrix	Nelac	Wisconsin
SW 6020A	Water - NonPotable	X	X
SW 7470A	Water - NonPotable	X	X
SW 8260B	Water - NonPotable	X	X
SW 8310	Water - NonPotable	X	X

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0653
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/18/10
Reported: 12/10/10 14:48

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MHA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Watertown Division
602 Commerce Drive
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: AECOM Client #: _____
Address: 558 N Main Street
City/State/Zip Code: Oshkosh, WI
Project Manager: Andrew Mott
Telephone Number: 920 235 0270 Fax: 920 235 0231
Sampler Name: (Print Name) Heather Cleveland
Sampler Signature: [Signature]

Project Name: Former Micro Plant # 9
Project #: 60163491 State: WI
Site/Location ID: Mamitawoc
Report To: Andrew Mott / Mike Bingham
Invoice To: Mike Bingham/AES
Quote #: _____ PO#: _____

TAJ Standard	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	Preservation & # of Containers	Other (Specify)	Analyze For:	QC Deliverables	REMARKS
<input checked="" type="checkbox"/> Standard										
<input type="checkbox"/> Rush (surcharges may apply)										
Date Needed:										
Fax Results: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N										
E-mail: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N										
SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	Preservation & # of Containers	Other (Specify)	Analyze For:	QC Deliverables	REMARKS
MB-GW-MW-15	11/16/10	1245	G	N	GW	HNO ₃ 500 HCl 1000 NaOH	None amber	VOC		
MB-GW-MW-15		1247	G	N	GW			TAL		
MB-GW-MW-15DUP		1247						PAH		
MB-GW-MW-16A		1512								
MB-GW-MW-16A DUP		1512								
MB-GW-MW-16		1532								
MB-GW-MW-16		1535								
MB-GW-MW-16		1538								
MB-GW-MW-16A DUP		1538								
MB-GW-MW-17		1700								

LABORATORY COMMENTS:

Init Lab Temp: _____

Rec Lab Temp: _____

Custody Seals: Y N

Bottles Supplied by TestAmerica: Y N

Method of Shipment: FEDEX

Special Instructions: Supply data package in accordance with the Former Micro Plant #9 QAQC & QAPP

Relinquished By: [Signature] Date: 11/16/10 Time: 11:30

Received By: [Signature] Date: 11/18 Time: 16:33

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: _____ Client #: _____
Address: _____
City/State/Zip Code: _____
Project Manager: _____
Telephone Number: _____
Sampler Name: (Print Name) Heather Cleveland
Sampler Signature: [Signature]
E-mail address: _____
Project Name: Previous
Project #: _____
Site/Location ID: See page State: _____
Report To: _____
Invoice To: _____
Quote #: _____ PO#: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix Preservation & # of Containers						Analyze For:	QC Deliverables	REMARKS				
					SL - Sludge DW - Drinking Water	GW - Groundwater S - Soil/Solid	MW - Wastewater	Specify Other	HNO ₃ BO	HCl Wash				NaOH	H ₂ SO ₄	Methanol	None
MB-GW-MW-17	11/16/10	1702	G	N													
Tap Blank		1220	G	N													

Special Instructions: See previous page

Relinquished By: [Signature] Date: 11/17/10 Time: 1130 Received By: [Signature] Date: 11/18 Time: 1118

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

LABORATORY COMMENTS:
Init Lab Temp: _____
Rec Lab Temp: 118
Custody Seals: Y N/A
Bottles Supplied by TestAmerica: Y N
Method of Shipment: Fed Ex

Cooler Receipt Log

Work Order(s): WTK0653 Client Name/Project: AECOM # of Coolers: 1

1. How did samples arrive? Fed-Ex UPS TestAmerica Client Dunham Speedy _____

Date/time cooler was opened: 11-18-10 16:33 By: D. Herrick TEMP. 0°

2. Were custody seals intact, signed and dated correctly?..... Intact Broken NA
3. Were samples on ice?..... Yes No
4. Does this Project require quick turn around analysis?..... No Yes
5. Are there any short hold time tests? (48hrs or less) No Yes
- Past Hold?..... No Yes

48 hours or less	7 days
Coliform Bacteria 8/30 hours	Aqueous Organic Prep
Chlorine/Hex Cr 24 hours	TS
BOD	TDS
Nitrate/Nitrite (DW is 14 days)	TSS
Sulfite	Sulfide
Orthophosphate	Volatile Solids
Surfactants (MBAS)	

6. Ops Mgr, PM or Analyst informed of short hold?.....Who _____ When _____
7. Other than short hold test, were any samples within 2 days of their hold date No Yes
 Or past their expiration of hold time No Yes
8. Is the date and time of collection recorded? Date Yes No
 Time..... Yes No
9. Were all sample containers listed on the COC received and intact? Yes No
10. Do sample containers received and COC match?..... Yes No
11. Are dissolved parameters field filtered or being filtered in the lab?..... Field Lab NA
12. Are sample volumes adequate and preservatives correct for test requested? Vol..... Yes No
 Pres.... Yes No
13. Do VOC samples have air bubbles >6mm?..... No Yes NA
14. Is an aqueous Trip Blank included?..... Yes No NA
15. Are any samples on hold? No Yes
16. Are there samples to be subcontracted? No Yes
17. Is a Methanol Trip Blank included?..... Yes No NA
18. How were VOC soils received? Methanol Sodium Bisulfate Packed Jar Encore Other Water (see options*)
 * Within 48hrs of sampling Past 48hrs of sampling Frozen Not Frozen

If any changes are made to this Work Order after Login, or if comments must be made regarding this cooler, explain them below:

trip blank has headspace

December 03, 2010

Client: Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608

Work Order: WTJ0823
Project Name: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc, WI

Attn: Mr. Michael Bingham
Date Received: 10/22/10

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MB-SB-MW-14@6-8'	WTJ0823-01	10/18/10 14:10
MB-SB-MW-15@2.2-4'	WTJ0823-02	10/18/10 14:40
MB-SB-MW-15@5.5-6.5'	WTJ0823-03	10/18/10 14:50
MB-SB-MW-17@2.5-4'	WTJ0823-04	10/18/10 15:05
MB-SB-MW-17@5-7'	WTJ0823-05	10/18/10 15:15
MB-SB-MW-16A@2-4'	WTJ0823-06	10/19/10 09:10
MB-SB-MW-16A@2-4' DUP	WTJ0823-07	10/19/10 09:10
MB-SB-MW-16A@6-8'	WTJ0823-08	10/19/10 09:20
MB-SB-MW-16A@29-30'	WTJ0823-09	10/19/10 09:30

Case Narrative: Dry weight containers were not received for the VOC samples. These are reported wet weight at the direction of the client. Sample MB-SB-MW-16A@2-4' was impacted by melted ice during shipment, and was cancelled at the direction of the client.

Samples were received on ice into laboratory at a temperature of 0 °C.

Wisconsin Certification Number: 128053530

The Chain(s) of Custody, -1 pages, are included and are an integral part of this report.

Unless subcontracted, volatiles analyses (including VOC, PVOC, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.

Approved By:



TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTJ0823-01 (MB-SB-MW-14@6-8' - Soil)						Sampled: 10/18/10 14:10			
VOCs by SW8260B									
Benzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Bromobenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Bromochloromethane	<35		ug/kg wet	35	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Bromodichloromethane	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Bromoform	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Bromomethane	<100		ug/kg wet	100	1	10/25/10 15:45	ABA	10J0706	SW 8260B
n-Butylbenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
sec-Butylbenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
tert-Butylbenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Carbon Tetrachloride	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Chlorobenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Chlorodibromomethane	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Chloroethane	<50		ug/kg wet	50	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Chloroform	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Chloromethane	<50		ug/kg wet	50	1	10/25/10 15:45	ABA	10J0706	SW 8260B
2-Chlorotoluene	<50		ug/kg wet	50	1	10/25/10 15:45	ABA	10J0706	SW 8260B
4-Chlorotoluene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,2-Dibromo-3-chloropropane	<50		ug/kg wet	50	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,2-Dibromoethane (EDB)	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Dibromomethane	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,2-Dichlorobenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,3-Dichlorobenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,4-Dichlorobenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Dichlorodifluoromethane	<50		ug/kg wet	50	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,1-Dichloroethane	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,2-Dichloroethane	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,1-Dichloroethene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
cis-1,2-Dichloroethene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
trans-1,2-Dichloroethene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,2-Dichloropropane	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,3-Dichloropropane	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
2,2-Dichloropropane	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,1-Dichloropropene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
cis-1,3-Dichloropropene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
trans-1,3-Dichloropropene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
2,3-Dichloropropene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Isopropyl Ether	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Ethylbenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Hexachlorobutadiene	<35		ug/kg wet	35	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Isopropylbenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
p-Isopropyltoluene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Methylene Chloride	<50		ug/kg wet	50	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Methyl tert-Butyl Ether	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Naphthalene	<50		ug/kg wet	50	1	10/25/10 15:45	ABA	10J0706	SW 8260B
n-Propylbenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Styrene	<50		ug/kg wet	50	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,1,1,2-Tetrachloroethane	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,1,2,2-Tetrachloroethane	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Tetrachloroethene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTJ0823-01 (MB-SB-MW-14@6-8' - Soil) - cont.						Sampled: 10/18/10 14:10			
VOCs by SW8260B - cont.									
Toluene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,2,3-Trichlorobenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,2,4-Trichlorobenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,1,1-Trichloroethane	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,1,2-Trichloroethane	<35		ug/kg wet	35	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Trichloroethene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Trichlorofluoromethane	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,2,3-Trichloropropane	<50		ug/kg wet	50	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,2,4-Trimethylbenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
1,3,5-Trimethylbenzene	<25		ug/kg wet	25	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Vinyl chloride	<35		ug/kg wet	35	1	10/25/10 15:45	ABA	10J0706	SW 8260B
Xylenes, total	<85		ug/kg wet	85	1	10/25/10 15:45	ABA	10J0706	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	108 %								
<i>Surr: Toluene-d8 (80-120%)</i>	103 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	99 %								

Sample ID: WTJ0823-02 (MB-SB-MW-15@2.2-4' - Soil)						Sampled: 10/18/10 14:40			
General Chemistry Parameters									
% Solids	81		%	NA	1	10/27/10 08:19	kjk	10J0808	SM 2540G
PNAs by SW8310									
Acenaphthene	2000		ug/kg dry	290	4.8	11/02/10 22:05	CLJ	10J0940	SW 8310
Acenaphthylene	<500		ug/kg dry	500	4.8	11/02/10 22:05	CLJ	10J0940	SW 8310
Anthracene	2300		ug/kg dry	290	47.6	11/02/10 20:03	CLJ	10J0940	SW 8310
Benzo (a) anthracene	2900		ug/kg dry	290	47.6	11/02/10 20:03	CLJ	10J0940	SW 8310
Benzo (b) fluoranthene	2000		ug/kg dry	29	4.8	11/02/10 22:05	CLJ	10J0940	SW 8310
Benzo (k) fluoranthene	1000		ug/kg dry	29	4.8	11/02/10 22:05	CLJ	10J0940	SW 8310
Benzo (a) pyrene	1900		ug/kg dry	29	4.8	11/02/10 22:05	CLJ	10J0940	SW 8310
Benzo (g,h,i) perylene	1100		ug/kg dry	29	4.8	11/02/10 22:05	CLJ	10J0940	SW 8310
Chrysene	3300		ug/kg dry	290	47.6	11/02/10 20:03	CLJ	10J0940	SW 8310
Dibenzo (a,h) anthracene	990		ug/kg dry	44	4.8	11/02/10 22:05	CLJ	10J0940	SW 8310
Fluoranthene	9500		ug/kg dry	580	47.6	11/02/10 20:03	CLJ	10J0940	SW 8310
Fluorene	1700		ug/kg dry	58	4.8	11/02/10 22:05	CLJ	10J0940	SW 8310
Indeno (1,2,3-cd) pyrene	1000		ug/kg dry	29	4.8	11/02/10 22:05	CLJ	10J0940	SW 8310
1-Methylnaphthalene	600		ug/kg dry	180	4.8	11/02/10 22:05	CLJ	10J0940	SW 8310
2-Methylnaphthalene	6600		ug/kg dry	180	4.8	11/02/10 22:05	CLJ	10J0940	SW 8310
Naphthalene	2200		ug/kg dry	180	4.8	11/02/10 22:05	CLJ	10J0940	SW 8310
Phenanthrene	8800		ug/kg dry	290	47.6	11/02/10 20:03	CLJ	10J0940	SW 8310
Pyrene	8900		ug/kg dry	290	47.6	11/02/10 20:03	CLJ	10J0940	SW 8310
<i>Surr: 2-Fluorobiphenyl (61-128%)</i>	116 %								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTJ0823-03 (MB-SB-MW-15@5.5-6.5' - Soil)						Sampled: 10/18/10 14:50			
VOCs by SW8260B									
Benzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Bromobenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Bromochloromethane	<35		ug/kg wet	35	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Bromodichloromethane	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Bromoform	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Bromomethane	<100		ug/kg wet	100	1	10/25/10 16:11	ABA	10J0706	SW 8260B
n-Butylbenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
sec-Butylbenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
tert-Butylbenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Carbon Tetrachloride	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Chlorobenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Chlorodibromomethane	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Chloroethane	<50		ug/kg wet	50	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Chloroform	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Chloromethane	<50		ug/kg wet	50	1	10/25/10 16:11	ABA	10J0706	SW 8260B
2-Chlorotoluene	<50		ug/kg wet	50	1	10/25/10 16:11	ABA	10J0706	SW 8260B
4-Chlorotoluene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,2-Dibromo-3-chloropropane	<50		ug/kg wet	50	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,2-Dibromoethane (EDB)	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Dibromomethane	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,2-Dichlorobenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,3-Dichlorobenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,4-Dichlorobenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Dichlorodifluoromethane	<50		ug/kg wet	50	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,1-Dichloroethane	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,2-Dichloroethane	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,1-Dichloroethene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
cis-1,2-Dichloroethene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
trans-1,2-Dichloroethene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,2-Dichloropropane	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,3-Dichloropropane	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
2,2-Dichloropropane	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,1-Dichloropropene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
cis-1,3-Dichloropropene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
trans-1,3-Dichloropropene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
2,3-Dichloropropene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Isopropyl Ether	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Ethylbenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Hexachlorobutadiene	<35		ug/kg wet	35	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Isopropylbenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
p-Isopropyltoluene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Methylene Chloride	<50		ug/kg wet	50	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Methyl tert-Butyl Ether	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Naphthalene	<50		ug/kg wet	50	1	10/25/10 16:11	ABA	10J0706	SW 8260B
n-Propylbenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Styrene	<50		ug/kg wet	50	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,1,1,2-Tetrachloroethane	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,1,2,2-Tetrachloroethane	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Tetrachloroethene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Toluene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,2,3-Trichlorobenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
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Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTJ0823-03 (MB-SB-MW-15@5.5-6.5' - Soil) - cont.						Sampled: 10/18/10 14:50			
VOCs by SW8260B - cont.									
1,2,4-Trichlorobenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,1,1-Trichloroethane	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,1,2-Trichloroethane	<35		ug/kg wet	35	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Trichloroethene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Trichlorofluoromethane	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,2,3-Trichloropropane	<50		ug/kg wet	50	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,2,4-Trimethylbenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
1,3,5-Trimethylbenzene	<25		ug/kg wet	25	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Vinyl chloride	<35		ug/kg wet	35	1	10/25/10 16:11	ABA	10J0706	SW 8260B
Xylenes, total	<85		ug/kg wet	85	1	10/25/10 16:11	ABA	10J0706	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	111 %								
<i>Surr: Toluene-d8 (80-120%)</i>	102 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	100 %								
Sample ID: WTJ0823-04 (MB-SB-MW-17@2.5-4' - Soil)						Sampled: 10/18/10 15:05			
General Chemistry Parameters									
% Solids	93		%	NA	1	10/27/10 08:19	kjk	10J0808	SM 2540G
PNAs by SW8310									
Acenaphthene	<53		ug/kg dry	53	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Acenaphthylene	<90		ug/kg dry	90	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Anthracene	<5.3		ug/kg dry	5.3	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Benzo (a) anthracene	<5.3		ug/kg dry	5.3	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Benzo (b) fluoranthene	<5.3		ug/kg dry	5.3	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Benzo (k) fluoranthene	<5.3		ug/kg dry	5.3	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Benzo (a) pyrene	<5.3		ug/kg dry	5.3	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Benzo (g,h,i) perylene	<5.3		ug/kg dry	5.3	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Chrysene	<5.3		ug/kg dry	5.3	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Dibenzo (a,h) anthracene	<7.9		ug/kg dry	7.9	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Fluoranthene	<11		ug/kg dry	11	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Fluorene	<11		ug/kg dry	11	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Indeno (1,2,3-cd) pyrene	<5.3		ug/kg dry	5.3	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
1-Methylnaphthalene	<32		ug/kg dry	32	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
2-Methylnaphthalene	<32		ug/kg dry	32	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Naphthalene	<32		ug/kg dry	32	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Phenanthrene	<5.3		ug/kg dry	5.3	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
Pyrene	<5.3		ug/kg dry	5.3	1.0	11/02/10 19:43	CLJ	10J0940	SW 8310
<i>Surr: 2-Fluorobiphenyl (61-128%)</i>	106 %								

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTJ0823-05 (MB-SB-MW-17@5-7' - Soil)						Sampled: 10/18/10 15:15			
VOCs by SW8260B									
Benzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Bromobenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Bromochloromethane	<35		ug/kg wet	35	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Bromodichloromethane	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Bromoform	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Bromomethane	<100		ug/kg wet	100	1	10/25/10 16:38	ABA	10J0706	SW 8260B
n-Butylbenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
sec-Butylbenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
tert-Butylbenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Carbon Tetrachloride	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Chlorobenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Chlorodibromomethane	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Chloroethane	<50		ug/kg wet	50	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Chloroform	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Chloromethane	<50		ug/kg wet	50	1	10/25/10 16:38	ABA	10J0706	SW 8260B
2-Chlorotoluene	<50		ug/kg wet	50	1	10/25/10 16:38	ABA	10J0706	SW 8260B
4-Chlorotoluene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,2-Dibromo-3-chloropropane	<50		ug/kg wet	50	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,2-Dibromoethane (EDB)	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Dibromomethane	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,2-Dichlorobenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,3-Dichlorobenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,4-Dichlorobenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Dichlorodifluoromethane	<50		ug/kg wet	50	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,1-Dichloroethane	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,2-Dichloroethane	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,1-Dichloroethene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
cis-1,2-Dichloroethene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
trans-1,2-Dichloroethene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,2-Dichloropropane	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,3-Dichloropropane	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
2,2-Dichloropropane	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,1-Dichloropropene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
cis-1,3-Dichloropropene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
trans-1,3-Dichloropropene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
2,3-Dichloropropene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Isopropyl Ether	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Ethylbenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Hexachlorobutadiene	<35		ug/kg wet	35	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Isopropylbenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
p-Isopropyltoluene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Methylene Chloride	<50		ug/kg wet	50	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Methyl tert-Butyl Ether	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Naphthalene	<50		ug/kg wet	50	1	10/25/10 16:38	ABA	10J0706	SW 8260B
n-Propylbenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Styrene	<50		ug/kg wet	50	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,1,1,2-Tetrachloroethane	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,1,2,2-Tetrachloroethane	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Tetrachloroethene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Toluene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,2,3-Trichlorobenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTJ0823-05 (MB-SB-MW-17@5-7' - Soil) - cont.						Sampled: 10/18/10 15:15			
VOCs by SW8260B - cont.									
1,2,4-Trichlorobenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,1,1-Trichloroethane	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,1,2-Trichloroethane	<35		ug/kg wet	35	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Trichloroethene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Trichlorofluoromethane	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,2,3-Trichloropropane	<50		ug/kg wet	50	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,2,4-Trimethylbenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
1,3,5-Trimethylbenzene	<25		ug/kg wet	25	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Vinyl chloride	<35		ug/kg wet	35	1	10/25/10 16:38	ABA	10J0706	SW 8260B
Xylenes, total	<85		ug/kg wet	85	1	10/25/10 16:38	ABA	10J0706	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	108 %								
<i>Surr: Toluene-d8 (80-120%)</i>	103 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	99 %								
Sample ID: WTJ0823-07 (MB-SB-MW-16A@2-4' DUP - Soil)						Sampled: 10/19/10 09:10			
General Chemistry Parameters									
% Solids	80		%	NA	1	10/27/10 08:19	kjk	10J0808	SM 2540G
PNAs by SW8310									
Acenaphthene	430		ug/kg dry	300	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Acenaphthylene	<500		ug/kg dry	500	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Anthracene	550		ug/kg dry	30	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Benzo (a) anthracene	1300		ug/kg dry	30	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Benzo (b) fluoranthene	1200		ug/kg dry	30	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Benzo (k) fluoranthene	380		ug/kg dry	30	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Benzo (a) pyrene	1000		ug/kg dry	30	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Benzo (g,h,i) perylene	800		ug/kg dry	30	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Chrysene	1500		ug/kg dry	30	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Dibenzo (a,h) anthracene	570		ug/kg dry	45	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Fluoranthene	3200		ug/kg dry	59	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Fluorene	280		ug/kg dry	59	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Indeno (1,2,3-cd) pyrene	750		ug/kg dry	30	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
1-Methylnaphthalene	360		ug/kg dry	180	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
2-Methylnaphthalene	1700		ug/kg dry	180	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Naphthalene	830		ug/kg dry	180	4.8	11/02/10 21:25	CLJ	10J0940	SW 8310
Phenanthrene	2200		ug/kg dry	150	23.8	11/02/10 20:44	CLJ	10J0940	SW 8310
Pyrene	3200		ug/kg dry	150	23.8	11/02/10 20:44	CLJ	10J0940	SW 8310
<i>Surr: 2-Fluorobiphenyl (61-128%)</i>	0.00 %	Z3							

Advanced Environmental Solutions, Inc.
 90 Madison Street
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Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTJ0823-08 (MB-SB-MW-16A@6-8' - Soil)						Sampled: 10/19/10 09:20			
VOCs by SW8260B									
Benzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Bromobenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Bromochloromethane	<35		ug/kg wet	35	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Bromodichloromethane	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Bromoform	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Bromomethane	<100		ug/kg wet	100	1	10/27/10 11:45	ABA	10J0804	SW 8260B
n-Butylbenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
sec-Butylbenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
tert-Butylbenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Carbon Tetrachloride	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Chlorobenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Chlorodibromomethane	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Chloroethane	<50		ug/kg wet	50	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Chloroform	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Chloromethane	<50		ug/kg wet	50	1	10/27/10 11:45	ABA	10J0804	SW 8260B
2-Chlorotoluene	<50		ug/kg wet	50	1	10/27/10 11:45	ABA	10J0804	SW 8260B
4-Chlorotoluene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,2-Dibromo-3-chloropropane	<50		ug/kg wet	50	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,2-Dibromoethane (EDB)	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Dibromomethane	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,2-Dichlorobenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,3-Dichlorobenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,4-Dichlorobenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Dichlorodifluoromethane	<50		ug/kg wet	50	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,1-Dichloroethane	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,2-Dichloroethane	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,1-Dichloroethene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
cis-1,2-Dichloroethene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
trans-1,2-Dichloroethene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,2-Dichloropropane	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,3-Dichloropropane	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
2,2-Dichloropropane	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,1-Dichloropropene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
cis-1,3-Dichloropropene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
trans-1,3-Dichloropropene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
2,3-Dichloropropene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Isopropyl Ether	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Ethylbenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Hexachlorobutadiene	<35		ug/kg wet	35	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Isopropylbenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
p-Isopropyltoluene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Methylene Chloride	<50		ug/kg wet	50	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Methyl tert-Butyl Ether	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Naphthalene	<50		ug/kg wet	50	1	10/27/10 11:45	ABA	10J0804	SW 8260B
n-Propylbenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Styrene	<50		ug/kg wet	50	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,1,1,2-Tetrachloroethane	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,1,2,2-Tetrachloroethane	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Tetrachloroethene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Toluene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,2,3-Trichlorobenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTJ0823-08 (MB-SB-MW-16A@6-8' - Soil) - cont.						Sampled: 10/19/10 09:20			
VOCs by SW8260B - cont.									
1,2,4-Trichlorobenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,1,1-Trichloroethane	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,1,2-Trichloroethane	<35		ug/kg wet	35	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Trichloroethene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Trichlorofluoromethane	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,2,3-Trichloropropane	<50		ug/kg wet	50	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,2,4-Trimethylbenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
1,3,5-Trimethylbenzene	<25		ug/kg wet	25	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Vinyl chloride	<35		ug/kg wet	35	1	10/27/10 11:45	ABA	10J0804	SW 8260B
Xylenes, total	<85		ug/kg wet	85	1	10/27/10 11:45	ABA	10J0804	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	98 %								
<i>Surr: Toluene-d8 (80-120%)</i>	100 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	99 %								
Sample ID: WTJ0823-09 (MB-SB-MW-16A@29-30' - Soil)						Sampled: 10/19/10 09:30			
VOCs by SW8260B									
Benzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Bromobenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Bromochloromethane	<35		ug/kg wet	35	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Bromodichloromethane	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Bromoform	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Bromomethane	<100		ug/kg wet	100	1	10/27/10 12:12	ABA	10J0804	SW 8260B
n-Butylbenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
sec-Butylbenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
tert-Butylbenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Carbon Tetrachloride	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Chlorobenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Chlorodibromomethane	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Chloroethane	<50		ug/kg wet	50	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Chloroform	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Chloromethane	<50		ug/kg wet	50	1	10/27/10 12:12	ABA	10J0804	SW 8260B
2-Chlorotoluene	<50		ug/kg wet	50	1	10/27/10 12:12	ABA	10J0804	SW 8260B
4-Chlorotoluene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,2-Dibromo-3-chloropropane	<50		ug/kg wet	50	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,2-Dibromoethane (EDB)	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Dibromomethane	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,2-Dichlorobenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,3-Dichlorobenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,4-Dichlorobenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Dichlorodifluoromethane	<50		ug/kg wet	50	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,1-Dichloroethane	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,2-Dichloroethane	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,1-Dichloroethene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
cis-1,2-Dichloroethene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
trans-1,2-Dichloroethene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,2-Dichloropropane	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,3-Dichloropropane	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
2,2-Dichloropropane	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,1-Dichloropropene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
cis-1,3-Dichloropropene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
trans-1,3-Dichloropropene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B

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Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTJ0823-09 (MB-SB-MW-16A@29-30' - Soil) - cont.						Sampled: 10/19/10 09:30			
VOCs by SW8260B - cont.									
2,3-Dichloropropene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Isopropyl Ether	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Ethylbenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Hexachlorobutadiene	<35		ug/kg wet	35	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Isopropylbenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
p-Isopropyltoluene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Methylene Chloride	<50		ug/kg wet	50	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Methyl tert-Butyl Ether	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Naphthalene	<50		ug/kg wet	50	1	10/27/10 12:12	ABA	10J0804	SW 8260B
n-Propylbenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Styrene	<50		ug/kg wet	50	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,1,1,2-Tetrachloroethane	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,1,2,2-Tetrachloroethane	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Tetrachloroethene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Toluene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,2,3-Trichlorobenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,2,4-Trichlorobenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,1,1-Trichloroethane	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,1,2-Trichloroethane	<35		ug/kg wet	35	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Trichloroethene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Trichlorofluoromethane	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,2,3-Trichloropropane	<50		ug/kg wet	50	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,2,4-Trimethylbenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
1,3,5-Trimethylbenzene	<25		ug/kg wet	25	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Vinyl chloride	<35		ug/kg wet	35	1	10/27/10 12:12	ABA	10J0804	SW 8260B
Xylenes, total	<85		ug/kg wet	85	1	10/27/10 12:12	ABA	10J0804	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	98 %								
<i>Surr: Toluene-d8 (80-120%)</i>	99 %								
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	98 %								

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90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTJ0823
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
Reported: 12/03/10 12:49

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
BNAs by SW8270C							
n/a		WTJ0823-02					
n/a		WTJ0823-04					
n/a		WTJ0823-06					
n/a		WTJ0823-07					
PNAs by SW8310							
SW 8310	10J0940	WTJ0823-02	11	2	10/30/10 10:47	BKM	SW 3546
SW 8310	10J0940	WTJ0823-04	10	2	10/30/10 10:47	BKM	SW 3546
SW 8310	10J0940	WTJ0823-07	11	2	10/30/10 10:47	BKM	SW 3546

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
Benzene	10J0706			ug/kg wet	N/A	25	<25							
Bromobenzene	10J0706			ug/kg wet	N/A	25	<25							
Bromochloromethane	10J0706			ug/kg wet	N/A	35	<35							
Bromodichloromethane	10J0706			ug/kg wet	N/A	25	<25							
Bromoform	10J0706			ug/kg wet	N/A	25	<25							
Bromomethane	10J0706			ug/kg wet	N/A	100	<100							
n-Butylbenzene	10J0706			ug/kg wet	N/A	25	<25							
sec-Butylbenzene	10J0706			ug/kg wet	N/A	25	<25							
tert-Butylbenzene	10J0706			ug/kg wet	N/A	25	<25							
Carbon Tetrachloride	10J0706			ug/kg wet	N/A	25	<25							
Chlorobenzene	10J0706			ug/kg wet	N/A	25	<25							
Chlorodibromomethane	10J0706			ug/kg wet	N/A	25	<25							
Chloroethane	10J0706			ug/kg wet	N/A	50	<50							
Chloroform	10J0706			ug/kg wet	N/A	25	<25							
Chloromethane	10J0706			ug/kg wet	N/A	50	<50							
2-Chlorotoluene	10J0706			ug/kg wet	N/A	50	<50							
4-Chlorotoluene	10J0706			ug/kg wet	N/A	25	<25							
1,2-Dibromo-3-chloropropane	10J0706			ug/kg wet	N/A	50	<50							
1,2-Dibromoethane (EDB)	10J0706			ug/kg wet	N/A	25	<25							
Dibromomethane	10J0706			ug/kg wet	N/A	25	<25							
1,2-Dichlorobenzene	10J0706			ug/kg wet	N/A	25	<25							
1,3-Dichlorobenzene	10J0706			ug/kg wet	N/A	25	<25							
1,4-Dichlorobenzene	10J0706			ug/kg wet	N/A	25	<25							
Dichlorodifluoromethane	10J0706			ug/kg wet	N/A	50	<50							
1,1-Dichloroethane	10J0706			ug/kg wet	N/A	25	<25							
1,2-Dichloroethane	10J0706			ug/kg wet	N/A	25	<25							
1,1-Dichloroethene	10J0706			ug/kg wet	N/A	25	<25							
cis-1,2-Dichloroethene	10J0706			ug/kg wet	N/A	25	<25							
trans-1,2-Dichloroethene	10J0706			ug/kg wet	N/A	25	<25							
1,2-Dichloropropane	10J0706			ug/kg wet	N/A	25	<25							
1,3-Dichloropropane	10J0706			ug/kg wet	N/A	25	<25							
2,2-Dichloropropane	10J0706			ug/kg wet	N/A	25	<25							
1,1-Dichloropropene	10J0706			ug/kg wet	N/A	25	<25							
cis-1,3-Dichloropropene	10J0706			ug/kg wet	N/A	25	<25							
trans-1,3-Dichloropropene	10J0706			ug/kg wet	N/A	25	<25							
2,3-Dichloropropene	10J0706			ug/kg wet	N/A	25	<25							
Isopropyl Ether	10J0706			ug/kg wet	N/A	25	<25							
Ethylbenzene	10J0706			ug/kg wet	N/A	25	<25							
Hexachlorobutadiene	10J0706			ug/kg wet	N/A	35	<35							
Isopropylbenzene	10J0706			ug/kg wet	N/A	25	<25							
p-Isopropyltoluene	10J0706			ug/kg wet	N/A	25	<25							
Methylene Chloride	10J0706			ug/kg wet	N/A	50	<50							
Methyl tert-Butyl Ether	10J0706			ug/kg wet	N/A	25	<25							
Naphthalene	10J0706			ug/kg wet	N/A	50	<50							
n-Propylbenzene	10J0706			ug/kg wet	N/A	25	<25							

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
Styrene	10J0706			ug/kg wet	N/A	50	<50							
1,1,1,2-Tetrachloroethane	10J0706			ug/kg wet	N/A	25	<25							
1,1,2,2-Tetrachloroethane	10J0706			ug/kg wet	N/A	25	<25							
Tetrachloroethene	10J0706			ug/kg wet	N/A	25	<25							
Toluene	10J0706			ug/kg wet	N/A	25	<25							
1,2,3-Trichlorobenzene	10J0706			ug/kg wet	N/A	25	<25							
1,2,4-Trichlorobenzene	10J0706			ug/kg wet	N/A	25	<25							
1,1,1-Trichloroethane	10J0706			ug/kg wet	N/A	25	<25							
1,1,2-Trichloroethane	10J0706			ug/kg wet	N/A	35	<35							
Trichloroethene	10J0706			ug/kg wet	N/A	25	<25							
Trichlorofluoromethane	10J0706			ug/kg wet	N/A	25	<25							
1,2,3-Trichloropropane	10J0706			ug/kg wet	N/A	50	<50							
1,2,4-Trimethylbenzene	10J0706			ug/kg wet	N/A	25	<25							
1,3,5-Trimethylbenzene	10J0706			ug/kg wet	N/A	25	<25							
Vinyl chloride	10J0706			ug/kg wet	N/A	35	<35							
Xylenes, total	10J0706			ug/kg wet	N/A	85	<85							
Surrogate: Dibromofluoromethane	10J0706			ug/kg wet					105		80-120			
Surrogate: Toluene-d8	10J0706			ug/kg wet					105		80-120			
Surrogate: 4-Bromofluorobenzene	10J0706			ug/kg wet					99		80-120			
Pentafluorobenzene	10J0706		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
1,4-Difluorobenzene	10J0706		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
Chlorobenzene-d5	10J0706		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
1,4-Dichlorobenzene-d4	10J0706		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
Benzene	10J0804			ug/kg wet	N/A	25	<25							
Bromobenzene	10J0804			ug/kg wet	N/A	25	<25							
Bromochloromethane	10J0804			ug/kg wet	N/A	35	<35							
Bromodichloromethane	10J0804			ug/kg wet	N/A	25	<25							
Bromoform	10J0804			ug/kg wet	N/A	25	<25							
Bromomethane	10J0804			ug/kg wet	N/A	100	<100							
n-Butylbenzene	10J0804			ug/kg wet	N/A	25	<25							
sec-Butylbenzene	10J0804			ug/kg wet	N/A	25	<25							
tert-Butylbenzene	10J0804			ug/kg wet	N/A	25	<25							
Carbon Tetrachloride	10J0804			ug/kg wet	N/A	25	<25							
Chlorobenzene	10J0804			ug/kg wet	N/A	25	<25							
Chlorodibromomethane	10J0804			ug/kg wet	N/A	25	<25							
Chloroethane	10J0804			ug/kg wet	N/A	50	<50							
Chloroform	10J0804			ug/kg wet	N/A	25	<25							
Chloromethane	10J0804			ug/kg wet	N/A	50	<50							
2-Chlorotoluene	10J0804			ug/kg wet	N/A	50	<50							
4-Chlorotoluene	10J0804			ug/kg wet	N/A	25	<25							
1,2-Dibromo-3-chloropropane	10J0804			ug/kg wet	N/A	50	<50							
1,2-Dibromoethane (EDB)	10J0804			ug/kg wet	N/A	25	<25							
Dibromomethane	10J0804			ug/kg wet	N/A	25	<25							
1,2-Dichlorobenzene	10J0804			ug/kg wet	N/A	25	<25							

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
1,3-Dichlorobenzene	10J0804			ug/kg wet	N/A	25	<25							
1,4-Dichlorobenzene	10J0804			ug/kg wet	N/A	25	<25							
Dichlorodifluoromethane	10J0804			ug/kg wet	N/A	50	<50							
1,1-Dichloroethane	10J0804			ug/kg wet	N/A	25	<25							
1,2-Dichloroethane	10J0804			ug/kg wet	N/A	25	<25							
1,1-Dichloroethene	10J0804			ug/kg wet	N/A	25	<25							
cis-1,2-Dichloroethene	10J0804			ug/kg wet	N/A	25	<25							
trans-1,2-Dichloroethene	10J0804			ug/kg wet	N/A	25	<25							
1,2-Dichloropropane	10J0804			ug/kg wet	N/A	25	<25							
1,3-Dichloropropane	10J0804			ug/kg wet	N/A	25	<25							
2,2-Dichloropropane	10J0804			ug/kg wet	N/A	25	<25							
1,1-Dichloropropene	10J0804			ug/kg wet	N/A	25	<25							
cis-1,3-Dichloropropene	10J0804			ug/kg wet	N/A	25	<25							
trans-1,3-Dichloropropene	10J0804			ug/kg wet	N/A	25	<25							
2,3-Dichloropropene	10J0804			ug/kg wet	N/A	25	<25							
Isopropyl Ether	10J0804			ug/kg wet	N/A	25	<25							
Ethylbenzene	10J0804			ug/kg wet	N/A	25	<25							
Hexachlorobutadiene	10J0804			ug/kg wet	N/A	35	<35							
Isopropylbenzene	10J0804			ug/kg wet	N/A	25	<25							
p-Isopropyltoluene	10J0804			ug/kg wet	N/A	25	<25							
Methylene Chloride	10J0804			ug/kg wet	N/A	50	<50							
Methyl tert-Butyl Ether	10J0804			ug/kg wet	N/A	25	<25							
Naphthalene	10J0804			ug/kg wet	N/A	50	<50							
n-Propylbenzene	10J0804			ug/kg wet	N/A	25	<25							
Styrene	10J0804			ug/kg wet	N/A	50	<50							
1,1,1,2-Tetrachloroethane	10J0804			ug/kg wet	N/A	25	<25							
1,1,1,2,2-Tetrachloroethane	10J0804			ug/kg wet	N/A	25	<25							
Tetrachloroethene	10J0804			ug/kg wet	N/A	25	<25							
Toluene	10J0804			ug/kg wet	N/A	25	<25							
1,2,3-Trichlorobenzene	10J0804			ug/kg wet	N/A	25	<25							
1,2,4-Trichlorobenzene	10J0804			ug/kg wet	N/A	25	<25							
1,1,1-Trichloroethane	10J0804			ug/kg wet	N/A	25	<25							
1,1,2-Trichloroethane	10J0804			ug/kg wet	N/A	35	<35							
Trichloroethene	10J0804			ug/kg wet	N/A	25	<25							
Trichlorofluoromethane	10J0804			ug/kg wet	N/A	25	<25							
1,2,3-Trichloropropane	10J0804			ug/kg wet	N/A	50	<50							
1,2,4-Trimethylbenzene	10J0804			ug/kg wet	N/A	25	<25							
1,3,5-Trimethylbenzene	10J0804			ug/kg wet	N/A	25	<25							
Vinyl chloride	10J0804			ug/kg wet	N/A	35	<35							
Xylenes, total	10J0804			ug/kg wet	N/A	85	<85							
Surrogate: Dibromofluoromethane	10J0804			ug/kg wet					101		80-120			
Surrogate: Toluene-d8	10J0804			ug/kg wet					99		80-120			
Surrogate: 4-Bromofluorobenzene	10J0804			ug/kg wet					100		80-120			
Pentafluorobenzene	10J0804		50	ug/kg wet	N/A	N/A	50.0		100		50-200			
1,4-Difluorobenzene	10J0804		50	ug/kg wet	N/A	N/A	50.0		100		50-200			

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Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B													
Chlorobenzene-d5	10J0804		50	ug/kg wet	N/A	N/A	50.0	100		50-200			
1,4-Dichlorobenzene-d4	10J0804		50	ug/kg wet	N/A	N/A	50.0	100		50-200			
PNAs by SW8310													
Acenaphthene	10J0940			ug/kg wet	N/A	50	<50						
Acenaphthylene	10J0940			ug/kg wet	N/A	85	<85						
Anthracene	10J0940			ug/kg wet	N/A	5.0	<5.0						
Benzo (a) anthracene	10J0940			ug/kg wet	N/A	5.0	<5.0						
Benzo (b) fluoranthene	10J0940			ug/kg wet	N/A	5.0	<5.0						
Benzo (k) fluoranthene	10J0940			ug/kg wet	N/A	5.0	<5.0						
Benzo (a) pyrene	10J0940			ug/kg wet	N/A	5.0	<5.0						
Benzo (g,h,i) perylene	10J0940			ug/kg wet	N/A	5.0	<5.0						
Chrysene	10J0940			ug/kg wet	N/A	5.0	<5.0						
Dibenzo (a,h) anthracene	10J0940			ug/kg wet	N/A	7.5	<7.5						
Fluoranthene	10J0940			ug/kg wet	N/A	10	<10						
Fluorene	10J0940			ug/kg wet	N/A	10	<10						
Indeno (1,2,3-cd) pyrene	10J0940			ug/kg wet	N/A	5.0	<5.0						
1-Methylnaphthalene	10J0940			ug/kg wet	N/A	30	<30						
2-Methylnaphthalene	10J0940			ug/kg wet	N/A	30	<30						
Naphthalene	10J0940			ug/kg wet	N/A	30	<30						
Phenanthrene	10J0940			ug/kg wet	N/A	5.0	<5.0						
Pyrene	10J0940			ug/kg wet	N/A	5.0	<5.0						
Surrogate: 2-Fluorobiphenyl	10J0940			ug/kg wet				106		61-128			

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LABORATORY DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
General Chemistry Parameters													
QC Source Sample: WTJ0661-11													
% Solids	10J0808	91.0		%	N/A	N/A	91.2				0	20	

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LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B													
Benzene	10J0706		2500	ug/kg wet	N/A	N/A	2540	101		80-120		29	
Bromobenzene	10J0706		2500	ug/kg wet	N/A	N/A	2190	88		80-120		20	
Bromochloromethane	10J0706		2500	ug/kg wet	N/A	N/A	2380	95		80-120		20	
Bromodichloromethane	10J0706		2500	ug/kg wet	N/A	N/A	2400	96		80-120		20	
Bromoform	10J0706		2500	ug/kg wet	N/A	N/A	2100	84		80-120		20	
Bromomethane	10J0706		2500	ug/kg wet	N/A	N/A	2600	104		60-140		20	
n-Butylbenzene	10J0706		2500	ug/kg wet	N/A	N/A	2550	102		80-120		20	
sec-Butylbenzene	10J0706		2500	ug/kg wet	N/A	N/A	2480	99		80-120		20	
tert-Butylbenzene	10J0706		2500	ug/kg wet	N/A	N/A	2430	97		80-120		20	
Carbon Tetrachloride	10J0706		2500	ug/kg wet	N/A	N/A	2430	97		60-140		20	
Chlorobenzene	10J0706		2500	ug/kg wet	N/A	N/A	2330	93		80-120		17	
Chlorodibromomethane	10J0706		2500	ug/kg wet	N/A	N/A	2210	88		80-120		20	
Chloroethane	10J0706		2500	ug/kg wet	N/A	N/A	2610	104		60-140		20	
Chloroform	10J0706		2500	ug/kg wet	N/A	N/A	2560	102		80-120		20	
Chloromethane	10J0706		2500	ug/kg wet	N/A	N/A	2530	101		60-140		20	
2-Chlorotoluene	10J0706		2500	ug/kg wet	N/A	N/A	2310	93		80-120		20	
4-Chlorotoluene	10J0706		2500	ug/kg wet	N/A	N/A	2470	99		80-120		20	
1,2-Dibromo-3-chloropropane	10J0706		2500	ug/kg wet	N/A	N/A	2020	81		60-140		20	
1,2-Dibromoethane (EDB)	10J0706		2500	ug/kg wet	N/A	N/A	2290	91		80-120		20	
Dibromomethane	10J0706		2500	ug/kg wet	N/A	N/A	2130	85		80-120		20	
1,2-Dichlorobenzene	10J0706		2500	ug/kg wet	N/A	N/A	2250	90		80-120		20	
1,3-Dichlorobenzene	10J0706		2500	ug/kg wet	N/A	N/A	2330	93		80-120		20	
1,4-Dichlorobenzene	10J0706		2500	ug/kg wet	N/A	N/A	2300	92		80-120		20	
Dichlorodifluoromethane	10J0706		2500	ug/kg wet	N/A	N/A	2560	102		60-140		20	
1,1-Dichloroethane	10J0706		2500	ug/kg wet	N/A	N/A	2650	106		80-120		20	
1,2-Dichloroethane	10J0706		2500	ug/kg wet	N/A	N/A	2560	103		80-120		20	
1,1-Dichloroethene	10J0706		2500	ug/kg wet	N/A	N/A	2650	106		80-120		44	
cis-1,2-Dichloroethene	10J0706		2500	ug/kg wet	N/A	N/A	2450	98		80-120		20	
trans-1,2-Dichloroethene	10J0706		2500	ug/kg wet	N/A	N/A	2500	100		80-120		20	
1,2-Dichloropropane	10J0706		2500	ug/kg wet	N/A	N/A	2530	101		80-120		20	
1,3-Dichloropropane	10J0706		2500	ug/kg wet	N/A	N/A	2350	94		80-120		20	
2,2-Dichloropropane	10J0706		2500	ug/kg wet	N/A	N/A	2550	102		60-140		20	
1,1-Dichloropropene	10J0706		2500	ug/kg wet	N/A	N/A	2520	101		80-120		20	
cis-1,3-Dichloropropene	10J0706		2500	ug/kg wet	N/A	N/A	2370	95		80-120		20	
trans-1,3-Dichloropropene	10J0706		2500	ug/kg wet	N/A	N/A	2320	93		80-120		20	
Ethylbenzene	10J0706		2500	ug/kg wet	N/A	N/A	2340	93		80-120		17	
Hexachlorobutadiene	10J0706		2500	ug/kg wet	N/A	N/A	2150	86		60-140		20	
Isopropylbenzene	10J0706		2500	ug/kg wet	N/A	N/A	2350	94		80-120		20	
p-Isopropyltoluene	10J0706		2500	ug/kg wet	N/A	N/A	2310	92		80-120		20	
Methylene Chloride	10J0706		2500	ug/kg wet	N/A	N/A	2490	100		80-120		20	
Methyl tert-Butyl Ether	10J0706		2500	ug/kg wet	N/A	N/A	2450	98		80-120		36	
Naphthalene	10J0706		2500	ug/kg wet	N/A	N/A	2300	92		60-140		20	
n-Propylbenzene	10J0706		2500	ug/kg wet	N/A	N/A	2320	93		80-120		20	
Styrene	10J0706		2500	ug/kg wet	N/A	N/A	2310	93		80-120		20	
1,1,1,2-Tetrachloroethane	10J0706		2500	ug/kg wet	N/A	N/A	2320	93		80-120		20	

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
1,1,2,2-Tetrachloroethane	10J0706		2500	ug/kg wet	N/A	N/A	2250		90		80-120		20	
Tetrachloroethene	10J0706		2500	ug/kg wet	N/A	N/A	2240		90		80-120		20	
Toluene	10J0706		2500	ug/kg wet	N/A	N/A	2360		94		80-120		18	
1,2,3-Trichlorobenzene	10J0706		2500	ug/kg wet	N/A	N/A	2260		90		80-120		20	
1,2,4-Trichlorobenzene	10J0706		2500	ug/kg wet	N/A	N/A	2130		85		80-120		20	
1,1,1-Trichloroethane	10J0706		2500	ug/kg wet	N/A	N/A	2510		100		80-120		20	
1,1,2-Trichloroethane	10J0706		2500	ug/kg wet	N/A	N/A	2280		91		80-120		20	
Trichloroethene	10J0706		2500	ug/kg wet	N/A	N/A	2290		92		80-120		20	
Trichlorofluoromethane	10J0706		2500	ug/kg wet	N/A	N/A	2580		103		80-120		20	
1,2,3-Trichloropropane	10J0706		2500	ug/kg wet	N/A	N/A	2110		84		80-120		20	
1,2,4-Trimethylbenzene	10J0706		2500	ug/kg wet	N/A	N/A	2310		92		80-120		20	
1,3,5-Trimethylbenzene	10J0706		2500	ug/kg wet	N/A	N/A	2320		93		80-120		19	
Vinyl chloride	10J0706		2500	ug/kg wet	N/A	N/A	2710		108		80-120		20	
Xylenes, total	10J0706		7500	ug/kg wet	N/A	N/A	7010		94		80-120		17	
Surrogate: Dibromofluoromethane	10J0706			ug/kg wet					105		80-120			
Surrogate: Toluene-d8	10J0706			ug/kg wet					104		80-120			
Surrogate: 4-Bromofluorobenzene	10J0706			ug/kg wet					100		80-120			
Benzene	10J0804		2500	ug/kg wet	N/A	N/A	2510		101		80-120		29	
Bromobenzene	10J0804		2500	ug/kg wet	N/A	N/A	2350		94		80-120		20	
Bromochloromethane	10J0804		2500	ug/kg wet	N/A	N/A	2440		98		80-120		20	
Bromodichloromethane	10J0804		2500	ug/kg wet	N/A	N/A	2380		95		80-120		20	
Bromoform	10J0804		2500	ug/kg wet	N/A	N/A	2200		88		80-120		20	
Bromomethane	10J0804		2500	ug/kg wet	N/A	N/A	2230		89		60-140		20	
n-Butylbenzene	10J0804		2500	ug/kg wet	N/A	N/A	2570		103		80-120		20	
sec-Butylbenzene	10J0804		2500	ug/kg wet	N/A	N/A	2530		101		80-120		20	
tert-Butylbenzene	10J0804		2500	ug/kg wet	N/A	N/A	2470		99		80-120		20	
Carbon Tetrachloride	10J0804		2500	ug/kg wet	N/A	N/A	2560		102		60-140		20	
Chlorobenzene	10J0804		2500	ug/kg wet	N/A	N/A	2470		99		80-120		17	
Chlorodibromomethane	10J0804		2500	ug/kg wet	N/A	N/A	2290		91		80-120		20	
Chloroethane	10J0804		2500	ug/kg wet	N/A	N/A	2420		97		60-140		20	
Chloroform	10J0804		2500	ug/kg wet	N/A	N/A	2540		102		80-120		20	
Chloromethane	10J0804		2500	ug/kg wet	N/A	N/A	2230		89		60-140		20	
2-Chlorotoluene	10J0804		2500	ug/kg wet	N/A	N/A	2450		98		80-120		20	
4-Chlorotoluene	10J0804		2500	ug/kg wet	N/A	N/A	2410		97		80-120		20	
1,2-Dibromo-3-chloropropane	10J0804		2500	ug/kg wet	N/A	N/A	2060		82		60-140		20	
1,2-Dibromoethane (EDB)	10J0804		2500	ug/kg wet	N/A	N/A	2350		94		80-120		20	
Dibromomethane	10J0804		2500	ug/kg wet	N/A	N/A	2370		95		80-120		20	
1,2-Dichlorobenzene	10J0804		2500	ug/kg wet	N/A	N/A	2350		94		80-120		20	
1,3-Dichlorobenzene	10J0804		2500	ug/kg wet	N/A	N/A	2420		97		80-120		20	
1,4-Dichlorobenzene	10J0804		2500	ug/kg wet	N/A	N/A	2380		95		80-120		20	
Dichlorodifluoromethane	10J0804		2500	ug/kg wet	N/A	N/A	2470		99		60-140		20	
1,1-Dichloroethane	10J0804		2500	ug/kg wet	N/A	N/A	2520		101		80-120		20	
1,2-Dichloroethane	10J0804		2500	ug/kg wet	N/A	N/A	2420		97		80-120		20	
1,1-Dichloroethene	10J0804		2500	ug/kg wet	N/A	N/A	2490		100		80-120		44	

Advanced Environmental Solutions, Inc.
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 Worcester, MA 01608
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Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
cis-1,2-Dichloroethene	10J0804		2500	ug/kg wet	N/A	N/A	2550		102		80-120		20	
trans-1,2-Dichloroethene	10J0804		2500	ug/kg wet	N/A	N/A	2490		100		80-120		20	
1,2-Dichloropropane	10J0804		2500	ug/kg wet	N/A	N/A	2340		93		80-120		20	
1,3-Dichloropropane	10J0804		2500	ug/kg wet	N/A	N/A	2330		93		80-120		20	
2,2-Dichloropropane	10J0804		2500	ug/kg wet	N/A	N/A	2580		103		60-140		20	
1,1-Dichloropropene	10J0804		2500	ug/kg wet	N/A	N/A	2660		106		80-120		20	
cis-1,3-Dichloropropene	10J0804		2500	ug/kg wet	N/A	N/A	2360		95		80-120		20	
trans-1,3-Dichloropropene	10J0804		2500	ug/kg wet	N/A	N/A	2320		93		80-120		20	
Ethylbenzene	10J0804		2500	ug/kg wet	N/A	N/A	2520		101		80-120		17	
Hexachlorobutadiene	10J0804		2500	ug/kg wet	N/A	N/A	2490		99		60-140		20	
Isopropylbenzene	10J0804		2500	ug/kg wet	N/A	N/A	2530		101		80-120		20	
p-Isopropyltoluene	10J0804		2500	ug/kg wet	N/A	N/A	2510		100		80-120		20	
Methylene Chloride	10J0804		2500	ug/kg wet	N/A	N/A	2450		98		80-120		20	
Methyl tert-Butyl Ether	10J0804		2500	ug/kg wet	N/A	N/A	2430		97		80-120		36	
Naphthalene	10J0804		2500	ug/kg wet	N/A	N/A	2110		85		60-140		20	
n-Propylbenzene	10J0804		2500	ug/kg wet	N/A	N/A	2510		100		80-120		20	
Styrene	10J0804		2500	ug/kg wet	N/A	N/A	2420		97		80-120		20	
1,1,1,2-Tetrachloroethane	10J0804		2500	ug/kg wet	N/A	N/A	2350		94		80-120		20	
1,1,2,2-Tetrachloroethane	10J0804		2500	ug/kg wet	N/A	N/A	2300		92		80-120		20	
Tetrachloroethene	10J0804		2500	ug/kg wet	N/A	N/A	2640		106		80-120		20	
Toluene	10J0804		2500	ug/kg wet	N/A	N/A	2490		100		80-120		18	
1,2,3-Trichlorobenzene	10J0804		2500	ug/kg wet	N/A	N/A	2330		93		80-120		20	
1,2,4-Trichlorobenzene	10J0804		2500	ug/kg wet	N/A	N/A	2410		96		80-120		20	
1,1,1-Trichloroethane	10J0804		2500	ug/kg wet	N/A	N/A	2650		106		80-120		20	
1,1,2-Trichloroethane	10J0804		2500	ug/kg wet	N/A	N/A	2380		95		80-120		20	
Trichloroethene	10J0804		2500	ug/kg wet	N/A	N/A	2580		103		80-120		20	
Trichlorofluoromethane	10J0804		2500	ug/kg wet	N/A	N/A	2490		100		80-120		20	
1,2,3-Trichloropropane	10J0804		2500	ug/kg wet	N/A	N/A	2190		88		80-120		20	
1,2,4-Trimethylbenzene	10J0804		2500	ug/kg wet	N/A	N/A	2460		98		80-120		20	
1,3,5-Trimethylbenzene	10J0804		2500	ug/kg wet	N/A	N/A	2490		100		80-120		19	
Vinyl chloride	10J0804		2500	ug/kg wet	N/A	N/A	2530		101		80-120		20	
Xylenes, total	10J0804		7500	ug/kg wet	N/A	N/A	7450		99		80-120		17	
Surrogate: Dibromofluoromethane	10J0804			ug/kg wet					102		80-120			
Surrogate: Toluene-d8	10J0804			ug/kg wet					100		80-120			
Surrogate: 4-Bromofluorobenzene	10J0804			ug/kg wet					98		80-120			
PNAs by SW8310														
Acenaphthene	10J0940		1000	ug/kg wet	N/A	50	961		96		72-114			
Acenaphthylene	10J0940		2000	ug/kg wet	N/A	85	2070		104		74-117			
Anthracene	10J0940		100	ug/kg wet	N/A	5.0	97.4		97		67-124			
Benzo (a) anthracene	10J0940		100	ug/kg wet	N/A	5.0	101		101		76-119			
Benzo (b) fluoranthene	10J0940		200	ug/kg wet	N/A	5.0	211		106		87-132			
Benzo (k) fluoranthene	10J0940		100	ug/kg wet	N/A	5.0	104		104		86-132			
Benzo (a) pyrene	10J0940		100	ug/kg wet	N/A	5.0	101		101		62-125			
Benzo (g,h,i) perylene	10J0940		200	ug/kg wet	N/A	5.0	215		107		80-128			

Advanced Environmental Solutions, Inc.
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Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
PNAs by SW8310														
Chrysene	10J0940		100	ug/kg wet	N/A	5.0	118		118		80-121			
Dibenzo (a,h) anthracene	10J0940		200	ug/kg wet	N/A	7.5	213		107		87-128			
Fluoranthene	10J0940		200	ug/kg wet	N/A	10	225		113		78-129			
Fluorene	10J0940		200	ug/kg wet	N/A	10	231		116		64-122			
Indeno (1,2,3-cd) pyrene	10J0940		100	ug/kg wet	N/A	5.0	107		107		80-125			
1-Methylnaphthalene	10J0940		1000	ug/kg wet	N/A	30	1000		100		72-115			
2-Methylnaphthalene	10J0940		1000	ug/kg wet	N/A	30	996		100		59-114			
Naphthalene	10J0940		1000	ug/kg wet	N/A	30	946		95		72-111			
Phenanthrene	10J0940		100	ug/kg wet	N/A	5.0	95.1		95		78-132			
Pyrene	10J0940		100	ug/kg wet	N/A	5.0	101		101		75-122			
Surrogate: 2-Fluorobiphenyl	10J0940			ug/kg wet					107		61-128			

Advanced Environmental Solutions, Inc.
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 Mr. Michael Bingham

Work Order: WTJ0823
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
 Reported: 12/03/10 12:49

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
PNAs by SW8310														
QC Source Sample: WTJ0823-04														
Acenaphthene	10J0940	0.00	1100	ug/kg dry	N/A	53	1020	1010	96	98	62-127	1	37	
Acenaphthylene	10J0940	0.00	2100	ug/kg dry	N/A	91	2120	2120	99	103	68-122	0	29	
Anthracene	10J0940	0.00	110	ug/kg dry	N/A	5.3	103	102	97	99	50-138	2	26	
Benzo (a) anthracene	10J0940	0.00	110	ug/kg dry	N/A	5.3	106	109	99	106	45-153	3	40	
Benzo (b) fluoranthene	10J0940	0.00	210	ug/kg dry	N/A	5.3	221	226	103	110	69-149	2	23	
Benzo (k) fluoranthene	10J0940	0.00	110	ug/kg dry	N/A	5.3	107	110	100	107	66-153	3	26	
Benzo (a) pyrene	10J0940	0.00	110	ug/kg dry	N/A	5.3	106	105	99	102	39-147	1	36	
Benzo (g,h,i) perylene	10J0940	0.00	210	ug/kg dry	N/A	5.3	221	221	103	108	63-152	0	27	
Chrysene	10J0940	0.00	110	ug/kg dry	N/A	5.3	128	132	120	128	53-149	3	41	
Dibenzo (a,h) anthracene	10J0940	0.00	210	ug/kg dry	N/A	8.0	232	231	108	112	81-134	0	20	
Fluoranthene	10J0940	0.00	210	ug/kg dry	N/A	11	239	241	112	117	62-143	1	21	
Fluorene	10J0940	0.00	210	ug/kg dry	N/A	11	249	244	116	119	51-133	2	38	
Indeno (1,2,3-cd) pyrene	10J0940	0.00	110	ug/kg dry	N/A	5.3	111	113	104	109	55-151	2	30	
1-Methylnaphthalene	10J0940	0.00	1100	ug/kg dry	N/A	32	1030	1050	97	102	64-126	1	33	
2-Methylnaphthalene	10J0940	0.00	1100	ug/kg dry	N/A	32	1030	1030	96	100	44-131	0	42	
Naphthalene	10J0940	0.00	1100	ug/kg dry	N/A	32	974	984	91	96	60-125	1	30	
Phenanthrene	10J0940	0.00	110	ug/kg dry	N/A	5.3	101	98.0	94	95	57-155	3	28	
Pyrene	10J0940	0.00	110	ug/kg dry	N/A	5.3	111	118	103	114	47-147	6	38	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>10J0940</i>			ug/kg dry					<i>102</i>	<i>108</i>	<i>55-120</i>			

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTJ0823
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 10/22/10
Reported: 12/03/10 12:49

CERTIFICATION SUMMARY

TestAmerica Watertown

Method	Matrix	Nelac	Wisconsin
SM 2540G	Solid/Soil	X	X
SW 8260B	Solid/Soil	X	X
SW 8310	Solid/Soil	X	X

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Received: 10/22/10
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DATA QUALIFIERS AND DEFINITIONS

Z3 The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

ADDITIONAL COMMENTS

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

WTJ0823

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Watertown Division
602 Commerce Drive
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: **AECOM**

Client #:

Address: 558 N Main Street

City/State/Zip Code: Oshkosh, WI

Project Manager: Andrew Mott

Telephone Number: 920 235 0270 Fax: 920 235 0231

Sampler Name: (Print Name) Heather Cleveland

Sampler Signature: *Heather Cleveland*

E-mail address: heather.cleveland@aecom.com

Project Name: Former Micro Plant No. 9
Project #: 60163491
Site/Location ID: Manitowoc, WI State: WI
Report To: Andrew Mott
Invoice To: AECOM
Quote #: _____ PO#: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Matrix	Preservation & # of Containers						Analyze For:	QC Deliverables	REMARKS		
					HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	Other (Specify)					
01 MB-SB-MW-14@08	10/10/10	1910	G N	SL - Sludge DW - Drinking Water											
02 MB-SB-MW-15@22-4		1940	G N	GW - Groundwater S - Soil/Solid					1						
03 MB-SB-MW-15@5-65		1950	G N	SL - Sludge DW - Drinking Water					2						
04 MB-SB-MW-17@25-4		1505	G N	SL - Sludge DW - Drinking Water					1						
05 MB-SB-MW-17@5-7		1515	G N	SL - Sludge DW - Drinking Water					2						
06 MB-SB-MW-16@2-4	10/19/10	0910	G N	SL - Sludge DW - Drinking Water					1						
07 MB-SB-MW-16@2-4 Dup		0910	G N	SL - Sludge DW - Drinking Water					1						
08 MB-SB-MW-16@6-8		0920	G N	SL - Sludge DW - Drinking Water					2						
09 MB-SB-MW-16@29-30		0930	G N	SL - Sludge DW - Drinking Water					2						

Special Instructions:

Relinquished By: *Heather Cleveland* Date: 10/21/10 Time: 0845

Relinquished By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

LABORATORY COMMENTS:
Init Lab Temp: _____
Rec Lab Temp: 0
Custody Seals: Y N N/A
Bottles Supplied by TestAmerica: Y N

Method of Shipment: FedEx

December 10, 2010

Client: Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608

Work Order: WTK0859
Project Name: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc, WI

Attn: Mr. Michael Bingham

Date Received: 11/27/10

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MB-GW-MW-14	WTK0859-01	11/23/10 11:30
MB-GW-MW-14	WTK0859-02	11/23/10 11:40
MB-GW-MW-19	WTK0859-03	11/23/10 13:37
MB-GW-GP-12	WTK0859-04	11/23/10 13:01
MB-GW-MW-20	WTK0859-05	11/23/10 14:10
MB-GW-MW-20 Dup	WTK0859-06	11/23/10 14:10
MB-GW-TW-1	WTK0859-07	11/23/10 15:04
MB-GW-TW-1	WTK0859-08	11/23/10 15:05
MB-GW-TW-1	WTK0859-09	11/23/10 15:06
MB-GW-TW-2	WTK0859-10	11/23/10 15:25
Trip Blank	WTK0859-11	11/23/10 15:25
Equipment Blank	WTK0859-12	11/23/10 16:00
Equipment Blank	WTK0859-13	11/23/10 16:04

Samples were received on ice into laboratory at a temperature of 3 °C.

Wisconsin Certification Number: 128053530

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

Unless subcontracted, volatiles analyses (including VOC, PVO, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.

Approved By:



TestAmerica Watertown
Brian DeJong For Dan F. Milewsky
Project Manager

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-01 (MB-GW-MW-14 - Ground Water)							Sampled: 11/23/10 11:30			
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Methylene Chloride	2.0		ug/L	1.0	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0859
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-01 (MB-GW-MW-14 - Ground Water) - cont.						Sampled: 11/23/10 11:30				
VOCs by SW8260B - cont.										
Toluene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	12/03/10 11:13	MAE	10L0072	SW 8260B
Surr: Dibromofluoromethane (80-120%)	112 %									
Surr: Toluene-d8 (80-120%)	100 %									
Surr: 4-Bromofluorobenzene (80-120%)	94 %									

Sample ID: WTK0859-02 (MB-GW-MW-14 - Ground Water)						Sampled: 11/23/10 11:40				
Metals										
Aluminum	330		ug/L	150	200	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Antimony	<0.61		ug/L	0.61	2.0	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Arsenic	0.81	J	ug/L	0.61	2.0	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Barium	210		ug/L	6.1	20	10	12/10/10 11:01	gsj	10K0746	SW 6020A
Beryllium	<0.12	C	ug/L	0.12	0.40	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Cadmium	<0.12		ug/L	0.12	0.40	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Calcium	200000		ug/L	1500	5000	10	12/10/10 11:01	gsj	10K0746	SW 6020A
Chromium	<0.61		ug/L	0.61	2.0	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Cobalt	0.65	J	ug/L	0.61	2.0	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Copper	1.4	J	ug/L	0.61	2.0	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Iron	2800		ug/L	150	500	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Lead	<0.61		ug/L	0.61	2.0	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Magnesium	81000		ug/L	1500	5000	10	12/10/10 11:01	gsj	10K0746	SW 6020A
Manganese	230		ug/L	6.1	20	10	12/10/10 11:01	gsj	10K0746	SW 6020A
Mercury	<0.000065		mg/L	0.000065	0.00023	1	11/30/10 12:09	jej	10K0740	SW 7470A
Nickel	<0.61		ug/L	0.61	2.0	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Potassium	13000		ug/L	150	500	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Selenium	<0.61		ug/L	0.61	2.0	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Silver	<0.61		ug/L	0.61	2.0	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Sodium	150000		ug/L	1500	5000	10	12/10/10 11:01	gsj	10K0746	SW 6020A
Thallium	<0.12		ug/L	0.12	0.40	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Vanadium	1.7	J	ug/L	0.61	2.0	1	12/10/10 11:01	gsj	10K0746	SW 6020A
Zinc	<6.0		ug/L	6.0	20	1	12/10/10 11:01	gsj	10K0746	SW 6020A

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-03 (MB-GW-MW-19 - Ground Water)						Sampled: 11/23/10 13:37				
Metals										
Aluminum	<150		ug/L	150	200	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Antimony	<0.61		ug/L	0.61	2.0	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Arsenic	3.1		ug/L	0.61	2.0	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Barium	16		ug/L	0.61	2.0	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Beryllium	<0.12	C	ug/L	0.12	0.40	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Cadmium	<0.12		ug/L	0.12	0.40	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Calcium	79000		ug/L	750	2500	5	12/10/10 11:19	gsj	10K0746	SW 6020A
Chromium	<0.61		ug/L	0.61	2.0	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Cobalt	<0.61		ug/L	0.61	2.0	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Copper	3.5		ug/L	0.61	2.0	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Iron	<150		ug/L	150	500	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Lead	<0.61		ug/L	0.61	2.0	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Magnesium	34000		ug/L	750	2500	5	12/10/10 11:19	gsj	10K0746	SW 6020A
Manganese	61		ug/L	0.61	2.0	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Mercury	<0.000065		mg/L	0.000065	0.00023	1	11/30/10 12:16	jej	10K0740	SW 7470A
Nickel	<0.61		ug/L	0.61	2.0	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Potassium	7800	C4	ug/L	150	500	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Selenium	0.90	J, B	ug/L	0.61	2.0	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Silver	<0.61		ug/L	0.61	2.0	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Sodium	63000		ug/L	750	2500	5	12/10/10 11:19	gsj	10K0746	SW 6020A
Thallium	<0.12		ug/L	0.12	0.40	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Vanadium	11		ug/L	0.61	2.0	1	12/10/10 11:19	gsj	10K0746	SW 6020A
Zinc	<6.0		ug/L	6.0	20	1	12/10/10 11:19	gsj	10K0746	SW 6020A
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-03 (MB-GW-MW-19 - Ground Water) - cont.						Sampled: 11/23/10 13:37				
VOCs by SW8260B - cont.										
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Methylene Chloride	5.6		ug/L	1.0	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Trichloroethene	0.36	J	ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	12/03/10 11:40	MAE	10L0072	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>110 %</i>									
<i>Surr: Toluene-d8 (80-120%)</i>	<i>101 %</i>									
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>94 %</i>									

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-04 (MB-GW-GP-12 - Ground Water)						Sampled: 11/23/10 13:01				
Metals										
Aluminum	13000		ug/L	300	400	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Antimony	<1.2		ug/L	1.2	4.0	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Arsenic	4.6		ug/L	1.2	4.0	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Barium	230		ug/L	3.1	10	5	12/10/10 11:56	gsj	10K0746	SW 6020A
Beryllium	0.76	C, J	ug/L	0.24	0.80	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Cadmium	<0.24		ug/L	0.24	0.80	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Calcium	450000		ug/L	7500	25000	50	12/10/10 11:56	gsj	10K0746	SW 6020A
Chromium	18		ug/L	1.2	4.0	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Cobalt	8.5		ug/L	1.2	4.0	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Copper	23		ug/L	1.2	4.0	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Iron	24000		ug/L	300	1000	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Lead	9.0		ug/L	1.2	4.0	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Magnesium	230000		ug/L	7500	25000	50	12/10/10 11:56	gsj	10K0746	SW 6020A
Manganese	870		ug/L	31	100	50	12/10/10 11:56	gsj	10K0746	SW 6020A
Mercury	<0.000065		mg/L	0.000065	0.00023	1	11/30/10 12:18	jej	10K0740	SW 7470A
Nickel	10		ug/L	1.2	4.0	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Potassium	10000	C4	ug/L	300	1000	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Selenium	<1.2		ug/L	1.2	4.0	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Silver	<1.2		ug/L	1.2	4.0	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Sodium	220000		ug/L	7500	25000	50	12/10/10 11:56	gsj	10K0746	SW 6020A
Thallium	<0.24		ug/L	0.24	0.80	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Vanadium	33		ug/L	1.2	4.0	2	12/10/10 11:56	gsj	10K0746	SW 6020A
Zinc	30	J	ug/L	12	40	2	12/10/10 11:56	gsj	10K0746	SW 6020A
VOCs by SW8260B										
Benzene	1.3	J	ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-04 (MB-GW-GP-12 - Ground Water) - cont.							Sampled: 11/23/10 13:01			
VOCs by SW8260B - cont.										
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Methylene Chloride	2.2		ug/L	1.0	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	12/03/10 12:07	MAE	10L0072	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>109 %</i>									
<i>Surr: Toluene-d8 (80-120%)</i>	<i>101 %</i>									
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>93 %</i>									

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-05 (MB-GW-MW-20 - Ground Water)							Sampled: 11/23/10 14:10			
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Methylene Chloride	2.0		ug/L	1.0	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-05 (MB-GW-MW-20 - Ground Water) - cont.							Sampled: 11/23/10 14:10			
VOCs by SW8260B - cont.										
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	12/03/10 12:34	MAE	10L0072	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>110 %</i>									
<i>Surr: Toluene-d8 (80-120%)</i>	<i>101 %</i>									
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>94 %</i>									
Sample ID: WTK0859-06 (MB-GW-MW-20 Dup - Ground Water)							Sampled: 11/23/10 14:10			
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-06 (MB-GW-MW-20 Dup - Ground Water) - cont.							Sampled: 11/23/10 14:10			
VOCs by SW8260B - cont.										
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Methylene Chloride	1.5	J	ug/L	1.0	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	12/03/10 13:00	MAE	10L0072	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>110 %</i>									
<i>Surr: Toluene-d8 (80-120%)</i>	<i>101 %</i>									
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>94 %</i>									

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-07 (MB-GW-TW-1 - Ground Water)							Sampled: 11/23/10 15:04			
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Methylene Chloride	5.1		ug/L	1.0	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-07 (MB-GW-TW-1 - Ground Water) - cont.							Sampled: 11/23/10 15:04			
VOCs by SW8260B - cont.										
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	12/03/10 13:27	MAE	10L0072	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>110 %</i>									
<i>Surr: Toluene-d8 (80-120%)</i>	<i>101 %</i>									
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>93 %</i>									
Sample ID: WTK0859-08 (MB-GW-TW-1 - Ground Water)							Sampled: 11/23/10 15:05			
Metals										
Aluminum	210		ug/L	150	200	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Antimony	<0.61		ug/L	0.61	2.0	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Arsenic	0.71	J	ug/L	0.61	2.0	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Barium	19		ug/L	0.61	2.0	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Beryllium	<0.12	C	ug/L	0.12	0.40	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Cadmium	<0.12		ug/L	0.12	0.40	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Calcium	48000		ug/L	750	2500	5	12/10/10 11:24	gsj	10K0746	SW 6020A
Chromium	<0.61		ug/L	0.61	2.0	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Cobalt	<0.61		ug/L	0.61	2.0	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Copper	2.3		ug/L	0.61	2.0	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Iron	390	J	ug/L	150	500	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Lead	<0.61		ug/L	0.61	2.0	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Magnesium	19000		ug/L	150	500	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Manganese	75		ug/L	0.61	2.0	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Mercury	<0.000065		mg/L	0.000065	0.00023	1	11/30/10 12:25	jej	10K0740	SW 7470A
Nickel	<0.61		ug/L	0.61	2.0	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Potassium	8800	C4	ug/L	150	500	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Selenium	1.0	J, B	ug/L	0.61	2.0	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Silver	<0.61		ug/L	0.61	2.0	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Sodium	44000		ug/L	750	2500	5	12/10/10 11:24	gsj	10K0746	SW 6020A
Thallium	<0.12		ug/L	0.12	0.40	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Vanadium	2.2		ug/L	0.61	2.0	1	12/10/10 11:24	gsj	10K0746	SW 6020A
Zinc	<6.0		ug/L	6.0	20	1	12/10/10 11:24	gsj	10K0746	SW 6020A

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-09 (MB-GW-TW-1 - Ground Water)						Sampled: 11/23/10 15:06				
PNAs by SW8310										
Acenaphthene	<0.33		ug/L	0.33	1.3	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Acenaphthylene	<0.69		ug/L	0.69	2.5	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Anthracene	<0.038		ug/L	0.038	0.13	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Benzo (a) anthracene	<0.044		ug/L	0.044	0.13	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Benzo (b) fluoranthene	<0.098		ug/L	0.098	0.25	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Benzo (k) fluoranthene	<0.049		ug/L	0.049	0.13	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Benzo (a) pyrene	<0.032		ug/L	0.032	0.13	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Benzo (g,h,i) perylene	<0.12		ug/L	0.12	0.25	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Chrysene	<0.041		ug/L	0.041	0.13	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Dibenzo (a,h) anthracene	<0.13		ug/L	0.13	0.25	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Fluoranthene	<0.081		ug/L	0.081	0.25	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Fluorene	<0.062		ug/L	0.062	0.25	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Indeno (1,2,3-cd) pyrene	<0.062		ug/L	0.062	0.13	1	12/07/10 17:42	CLJ	10K0751	SW 8310
1-Methylnaphthalene	<0.32		ug/L	0.32	1.3	1	12/07/10 17:42	CLJ	10K0751	SW 8310
2-Methylnaphthalene	<0.31		ug/L	0.31	1.3	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Naphthalene	<0.40		ug/L	0.40	1.3	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Phenanthrene	<0.030		ug/L	0.030	0.13	1	12/07/10 17:42	CLJ	10K0751	SW 8310
Pyrene	<0.044		ug/L	0.044	0.13	1	12/07/10 17:42	CLJ	10K0751	SW 8310
<i>Surr: 2-Fluorobiphenyl (16-138%)</i>	<i>95 %</i>									
Sample ID: WTK0859-10 (MB-GW-TW-2 - Ground Water)						Sampled: 11/23/10 15:25				
Metals										
Aluminum	160	J	ug/L	150	200	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Antimony	<0.61		ug/L	0.61	2.0	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Arsenic	3.7		ug/L	0.61	2.0	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Barium	32		ug/L	0.61	2.0	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Beryllium	<0.12	C	ug/L	0.12	0.40	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Cadmium	<0.12		ug/L	0.12	0.40	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Calcium	100000		ug/L	1500	5000	10	12/10/10 11:26	gsj	10K0746	SW 6020A
Chromium	1.1	J	ug/L	0.61	2.0	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Cobalt	<0.61		ug/L	0.61	2.0	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Copper	2.7		ug/L	0.61	2.0	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Iron	440	J	ug/L	150	500	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Lead	<0.61		ug/L	0.61	2.0	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Magnesium	75000		ug/L	1500	5000	10	12/10/10 11:26	gsj	10K0746	SW 6020A
Manganese	10		ug/L	0.61	2.0	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Mercury	<0.000065		mg/L	0.000065	0.00023	1	11/30/10 12:27	jej	10K0740	SW 7470A
Nickel	<0.61		ug/L	0.61	2.0	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Potassium	11000		ug/L	150	500	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Selenium	1.3	J, B	ug/L	0.61	2.0	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Silver	<0.61		ug/L	0.61	2.0	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Sodium	120000		ug/L	1500	5000	10	12/10/10 11:26	gsj	10K0746	SW 6020A
Thallium	<0.12		ug/L	0.12	0.40	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Vanadium	9.0		ug/L	0.61	2.0	1	12/10/10 11:26	gsj	10K0746	SW 6020A
Zinc	<6.0		ug/L	6.0	20	1	12/10/10 11:26	gsj	10K0746	SW 6020A
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-10 (MB-GW-TW-2 - Ground Water) - cont.							Sampled: 11/23/10 15:25			
VOCs by SW8260B - cont.										
Bromomethane	<0.50		ug/L	0.50	5.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Methylene Chloride	2.0		ug/L	1.0	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Trichloroethene	0.31	J	ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-10 (MB-GW-TW-2 - Ground Water) - cont.						Sampled: 11/23/10 15:25				
VOCs by SW8260B - cont.										
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	12/03/10 13:53	MAE	10L0072	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>110 %</i>									
<i>Surr: Toluene-d8 (80-120%)</i>	<i>101 %</i>									
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>93 %</i>									
PNAs by SW8310										
Acenaphthene	<0.35		ug/L	0.35	1.4	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Acenaphthylene	<0.73		ug/L	0.73	2.6	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Anthracene	<0.040		ug/L	0.040	0.14	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Benzo (a) anthracene	<0.046		ug/L	0.046	0.14	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Benzo (b) fluoranthene	<0.10		ug/L	0.10	0.26	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Benzo (k) fluoranthene	<0.052		ug/L	0.052	0.14	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Benzo (a) pyrene	<0.034		ug/L	0.034	0.14	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Benzo (g,h,i) perylene	<0.13		ug/L	0.13	0.26	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Chrysene	<0.043		ug/L	0.043	0.14	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Dibenzo (a,h) anthracene	<0.14		ug/L	0.14	0.26	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Fluoranthene	<0.085		ug/L	0.085	0.26	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Fluorene	<0.065		ug/L	0.065	0.26	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Indeno (1,2,3-cd) pyrene	<0.065		ug/L	0.065	0.14	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
1-Methylnaphthalene	<0.34		ug/L	0.34	1.4	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
2-Methylnaphthalene	<0.33		ug/L	0.33	1.4	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Naphthalene	<0.42		ug/L	0.42	1.4	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Phenanthrene	<0.032		ug/L	0.032	0.14	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
Pyrene	<0.046		ug/L	0.046	0.14	1.1	12/07/10 17:00	CLJ	10K0751	SW 8310
<i>Surr: 2-Fluorobiphenyl (16-138%)</i>	<i>100 %</i>									

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-11 (Trip Blank - Ground Water)							Sampled: 11/23/10 15:25			
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Methylene Chloride	2.9		ug/L	1.0	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Toluene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-11 (Trip Blank - Ground Water) - cont.						Sampled: 11/23/10 15:25				
VOCs by SW8260B - cont.										
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	12/03/10 10:20	MAE	10L0072	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>111 %</i>									
<i>Surr: Toluene-d8 (80-120%)</i>	<i>102 %</i>									
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>94 %</i>									
Sample ID: WTK0859-12 (Equipment Blank - Ground Water)						Sampled: 11/23/10 16:00				
VOCs by SW8260B										
Benzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Bromobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Bromochloromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Bromodichloromethane	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Bromoform	<0.20		ug/L	0.20	5.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Bromomethane	<0.50		ug/L	0.50	5.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
n-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
sec-Butylbenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Carbon Tetrachloride	<0.80		ug/L	0.80	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Chlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Chlorodibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Chloroethane	<1.0		ug/L	1.0	5.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Chloroform	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Chloromethane	<0.30		ug/L	0.30	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
2-Chlorotoluene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
4-Chlorotoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,2-Dibromo-3-chloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,2-Dibromoethane (EDB)	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Dibromomethane	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,2-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,3-Dichlorobenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,4-Dichlorobenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Dichlorodifluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,1-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,2-Dichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,1-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
cis-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
trans-1,2-Dichloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
2,2-Dichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,1-Dichloropropene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-12 (Equipment Blank - Ground Water) - cont.							Sampled: 11/23/10 16:00			
VOCs by SW8260B - cont.										
2,3-Dichloropropene	<0.25		ug/L	0.25	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Ethylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Hexachlorobutadiene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Isopropylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Methylene Chloride	2.3		ug/L	1.0	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Naphthalene	<0.25		ug/L	0.25	5.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Styrene	<0.50		ug/L	0.50	5.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Tetrachloroethene	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Toluene	0.92	J	ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,2,3-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,1,1-Trichloroethane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,1,2-Trichloroethane	<0.25		ug/L	0.25	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Trichloroethene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Trichlorofluoromethane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,2,3-Trichloropropane	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
1,3,5-Trimethylbenzene	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Vinyl chloride	<0.20		ug/L	0.20	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
Xylenes, Total	<0.50		ug/L	0.50	2.0	1	12/03/10 10:46	MAE	10L0072	SW 8260B
<i>Surr: Dibromofluoromethane (80-120%)</i>	<i>109 %</i>									
<i>Surr: Toluene-d8 (80-120%)</i>	<i>101 %</i>									
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	<i>94 %</i>									

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WTK0859-13 (Equipment Blank - Ground Water)							Sampled: 11/23/10 16:04			
PNAs by SW8310										
Acenaphthene	<0.33		ug/L	0.33	1.3	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Acenaphthylene	<0.70		ug/L	0.70	2.5	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Anthracene	<0.038		ug/L	0.038	0.13	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Benzo (a) anthracene	<0.044		ug/L	0.044	0.13	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Benzo (b) fluoranthene	<0.099		ug/L	0.099	0.25	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Benzo (k) fluoranthene	<0.049		ug/L	0.049	0.13	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Benzo (a) pyrene	<0.032		ug/L	0.032	0.13	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Benzo (g,h,i) perylene	<0.12		ug/L	0.12	0.25	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Chrysene	<0.041		ug/L	0.041	0.13	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Dibenzo (a,h) anthracene	<0.13		ug/L	0.13	0.25	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Fluoranthene	<0.082		ug/L	0.082	0.25	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Fluorene	<0.063		ug/L	0.063	0.25	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Indeno (1,2,3-cd) pyrene	<0.063		ug/L	0.063	0.13	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
1-Methylnaphthalene	<0.32		ug/L	0.32	1.3	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
2-Methylnaphthalene	<0.31		ug/L	0.31	1.3	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Naphthalene	<0.40		ug/L	0.40	1.3	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Phenanthrene	<0.030		ug/L	0.030	0.13	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
Pyrene	<0.044		ug/L	0.044	0.13	1.0	12/07/10 17:21	CLJ	10K0751	SW 8310
<i>Surr: 2-Fluorobiphenyl (16-138%)</i>	<i>98 %</i>									

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Work Order: WTK0859
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
Reported: 12/10/10 14:51

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
BNAs by SW8270C							
n/a		WTK0859-09					
n/a		WTK0859-10					
n/a		WTK0859-13					
PNAs by SW8310							
SW 8310	10K0751	WTK0859-09	1000	2	11/30/10 12:08	TLH	PNA8310/610
SW 8310	10K0751	WTK0859-10	950	2	11/30/10 12:08	TLH	PNA8310/610
SW 8310	10K0751	WTK0859-13	990	2	11/30/10 12:08	TLH	PNA8310/610

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Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Metals														
Mercury	10K0740			mg/L	0.000065	0.00023	<0.000065							
Aluminum	10K0746			ug/L	150	200	<150							
Antimony	10K0746			ug/L	0.61	2.0	1.08							B,J
Arsenic	10K0746			ug/L	0.61	2.0	<0.61							
Barium	10K0746			ug/L	0.61	2.0	<0.61							
Beryllium	10K0746			ug/L	0.12	0.40	<0.12							
Cadmium	10K0746			ug/L	0.12	0.40	<0.12							
Calcium	10K0746			ug/L	150	500	<150							
Chromium	10K0746			ug/L	0.61	2.0	<0.61							
Cobalt	10K0746			ug/L	0.61	2.0	<0.61							
Copper	10K0746			ug/L	0.61	2.0	<0.61							
Iron	10K0746			ug/L	150	500	<150							
Lead	10K0746			ug/L	0.61	2.0	<0.61							
Magnesium	10K0746			ug/L	150	500	<150							
Manganese	10K0746			ug/L	0.61	2.0	<0.61							
Nickel	10K0746			ug/L	0.61	2.0	<0.61							
Potassium	10K0746			ug/L	150	500	<150							
Selenium	10K0746			ug/L	0.61	2.0	0.840							B,J
Silver	10K0746			ug/L	0.61	2.0	<0.61							
Sodium	10K0746			ug/L	150	500	<150							
Thallium	10K0746			ug/L	0.12	0.40	<0.12							
Vanadium	10K0746			ug/L	0.61	2.0	<0.61							
Zinc	10K0746			ug/L	6.0	20	<6.0							
VOCs by SW8260B														
Benzene	10L0072			ug/L	0.20	2.0	<0.20							
Bromobenzene	10L0072			ug/L	0.20	2.0	<0.20							
Bromochloromethane	10L0072			ug/L	0.50	2.0	<0.50							
Bromodichloromethane	10L0072			ug/L	0.20	2.0	<0.20							
Bromoform	10L0072			ug/L	0.20	5.0	<0.20							
Bromomethane	10L0072			ug/L	0.50	5.0	<0.50							
n-Butylbenzene	10L0072			ug/L	0.20	2.0	<0.20							
sec-Butylbenzene	10L0072			ug/L	0.25	2.0	<0.25							
tert-Butylbenzene	10L0072			ug/L	0.20	2.0	<0.20							
Carbon Tetrachloride	10L0072			ug/L	0.80	2.0	<0.80							
Chlorobenzene	10L0072			ug/L	0.20	2.0	<0.20							
Chlorodibromomethane	10L0072			ug/L	0.20	2.0	<0.20							
Chloroethane	10L0072			ug/L	1.0	5.0	<1.0							
Chloroform	10L0072			ug/L	0.20	2.0	<0.20							
Chloromethane	10L0072			ug/L	0.30	2.0	<0.30							
2-Chlorotoluene	10L0072			ug/L	0.50	2.0	<0.50							
4-Chlorotoluene	10L0072			ug/L	0.20	2.0	<0.20							
1,2-Dibromo-3-chloropropane	10L0072			ug/L	0.50	2.0	<0.50							
1,2-Dibromoethane (EDB)	10L0072			ug/L	0.20	2.0	<0.20							
Dibromomethane	10L0072			ug/L	0.20	2.0	<0.20							

Advanced Environmental Solutions, Inc.
 90 Madison Street
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 Reported: 12/10/10 14:51

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
1,2-Dichlorobenzene	10L0072			ug/L	0.20	2.0	<0.20							
1,3-Dichlorobenzene	10L0072			ug/L	0.20	2.0	<0.20							
1,4-Dichlorobenzene	10L0072			ug/L	0.50	2.0	<0.50							
Dichlorodifluoromethane	10L0072			ug/L	0.50	2.0	<0.50							
1,1-Dichloroethane	10L0072			ug/L	0.50	2.0	<0.50							
1,2-Dichloroethane	10L0072			ug/L	0.50	2.0	<0.50							
1,1-Dichloroethene	10L0072			ug/L	0.50	2.0	<0.50							
cis-1,2-Dichloroethene	10L0072			ug/L	0.50	2.0	<0.50							
trans-1,2-Dichloroethene	10L0072			ug/L	0.50	2.0	<0.50							
1,2-Dichloropropane	10L0072			ug/L	0.50	2.0	<0.50							
1,3-Dichloropropane	10L0072			ug/L	0.25	2.0	<0.25							
2,2-Dichloropropane	10L0072			ug/L	0.50	2.0	<0.50							
1,1-Dichloropropene	10L0072			ug/L	0.50	2.0	<0.50							
cis-1,3-Dichloropropene	10L0072			ug/L	0.20	2.0	<0.20							
trans-1,3-Dichloropropene	10L0072			ug/L	0.20	2.0	<0.20							
2,3-Dichloropropene	10L0072			ug/L	0.25	2.0	<0.25							
Isopropyl Ether	10L0072			ug/L	0.50	2.0	<0.50							
Ethylbenzene	10L0072			ug/L	0.50	2.0	<0.50							
Hexachlorobutadiene	10L0072			ug/L	0.50	2.0	<0.50							
Isopropylbenzene	10L0072			ug/L	0.20	2.0	<0.20							
p-Isopropyltoluene	10L0072			ug/L	0.20	2.0	<0.20							
Methylene Chloride	10L0072			ug/L	1.0	2.0	<1.0							
Methyl tert-Butyl Ether	10L0072			ug/L	0.50	2.0	<0.50							
Naphthalene	10L0072			ug/L	0.25	5.0	<0.25							
n-Propylbenzene	10L0072			ug/L	0.50	2.0	<0.50							
Styrene	10L0072			ug/L	0.50	5.0	<0.50							
1,1,1,2-Tetrachloroethane	10L0072			ug/L	0.25	2.0	<0.25							
1,1,2,2-Tetrachloroethane	10L0072			ug/L	0.20	2.0	<0.20							
Tetrachloroethene	10L0072			ug/L	0.50	2.0	<0.50							
Toluene	10L0072			ug/L	0.50	2.0	<0.50							
1,2,3-Trichlorobenzene	10L0072			ug/L	0.25	2.0	<0.25							
1,2,4-Trichlorobenzene	10L0072			ug/L	0.25	2.0	<0.25							
1,1,1-Trichloroethane	10L0072			ug/L	0.50	2.0	<0.50							
1,1,2-Trichloroethane	10L0072			ug/L	0.25	2.0	<0.25							
Trichloroethene	10L0072			ug/L	0.20	2.0	<0.20							
Trichlorofluoromethane	10L0072			ug/L	0.50	2.0	<0.50							
1,2,3-Trichloropropane	10L0072			ug/L	0.50	2.0	<0.50							
1,2,4-Trimethylbenzene	10L0072			ug/L	0.20	2.0	<0.20							
1,3,5-Trimethylbenzene	10L0072			ug/L	0.20	2.0	<0.20							
Vinyl chloride	10L0072			ug/L	0.20	2.0	<0.20							
Xylenes, Total	10L0072			ug/L	0.50	2.0	<0.50							
Surrogate: Dibromofluoromethane	10L0072			ug/L					109		80-120			
Surrogate: Toluene-d8	10L0072			ug/L					102		80-120			
Surrogate: 4-Bromofluorobenzene	10L0072			ug/L					95		80-120			
Pentafluorobenzene	10L0072		50	ug/L	N/A	N/A	50.0		100		50-200			

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
1,4-Difluorobenzene	10L0072		50	ug/L	N/A	N/A	50.0		100		50-200			
Chlorobenzene-d5	10L0072		50	ug/L	N/A	N/A	50.0		100		50-200			
1,4-Dichlorobenzene-d4	10L0072		50	ug/L	N/A	N/A	50.0		100		50-200			
PNAs by SW8310														
Acenaphthene	10K0751			ug/L	0.33	1.3	<0.33							
Acenaphthylene	10K0751			ug/L	0.69	2.5	<0.69							
Anthracene	10K0751			ug/L	0.038	0.13	<0.038							
Benzo (a) anthracene	10K0751			ug/L	0.044	0.13	<0.044							
Benzo (b) fluoranthene	10K0751			ug/L	0.098	0.25	<0.098							
Benzo (k) fluoranthene	10K0751			ug/L	0.049	0.13	<0.049							
Benzo (a) pyrene	10K0751			ug/L	0.032	0.13	<0.032							
Benzo (g,h,i) perylene	10K0751			ug/L	0.12	0.25	<0.12							
Chrysene	10K0751			ug/L	0.041	0.13	<0.041							
Dibenzo (a,h) anthracene	10K0751			ug/L	0.13	0.25	<0.13							
Fluoranthene	10K0751			ug/L	0.081	0.25	<0.081							
Fluorene	10K0751			ug/L	0.062	0.25	<0.062							
Indeno (1,2,3-cd) pyrene	10K0751			ug/L	0.062	0.13	<0.062							
1-Methylnaphthalene	10K0751			ug/L	0.32	1.3	<0.32							
2-Methylnaphthalene	10K0751			ug/L	0.31	1.3	<0.31							
Naphthalene	10K0751			ug/L	0.40	1.3	<0.40							
Phenanthrene	10K0751			ug/L	0.030	0.13	<0.030							
Pyrene	10K0751			ug/L	0.044	0.13	<0.044							
Surrogate: 2-Fluorobiphenyl	10K0751			ug/L					77		16-138			

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Work Order: WTK0859
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 Project Number: 60163491 Plant No. 9 Manitowoc,

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 Reported: 12/10/10 14:51

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Metals													
Mercury	10K0740		0.0025	mg/L	0.000065	0.00023	0.00244	98		78-131			
Aluminum	10K0746		5100	ug/L	150	200	4750	94		85-115			
Antimony	10K0746		50	ug/L	0.61	2.0	52.1	104		85-115			
Arsenic	10K0746		50	ug/L	0.61	2.0	52.8	106		85-115			
Barium	10K0746		50	ug/L	0.61	2.0	52.6	105		85-115			
Beryllium	10K0746		50	ug/L	0.12	0.40	56.5	113		85-115			
Cadmium	10K0746		50	ug/L	0.12	0.40	51.3	103		85-115			
Calcium	10K0746		5100	ug/L	150	500	5270	104		85-115			
Chromium	10K0746		50	ug/L	0.61	2.0	50.8	102		85-115			
Cobalt	10K0746		50	ug/L	0.61	2.0	49.9	100		85-115			
Copper	10K0746		50	ug/L	0.61	2.0	52.8	106		85-115			
Iron	10K0746		5100	ug/L	150	500	4920	97		85-115			
Lead	10K0746		50	ug/L	0.61	2.0	48.3	97		85-115			
Magnesium	10K0746		5100	ug/L	150	500	5070	100		85-115			
Manganese	10K0746		50	ug/L	0.61	2.0	53.4	107		85-115			
Nickel	10K0746		50	ug/L	0.61	2.0	54.6	109		85-115			
Potassium	10K0746		5100	ug/L	150	500	4740	94		85-115			
Selenium	10K0746		50	ug/L	0.61	2.0	53.5	107		85-115			B
Silver	10K0746		50	ug/L	0.61	2.0	49.3	99		85-115			
Sodium	10K0746		5100	ug/L	150	500	4970	98		85-115			
Thallium	10K0746		50	ug/L	0.12	0.40	48.5	97		85-115			
Vanadium	10K0746		50	ug/L	0.61	2.0	51.7	103		85-115			
Zinc	10K0746		50	ug/L	6.0	20	50.3	101		85-115			
PNAs by SW8310													
Acenaphthene	10K0751		10	ug/L	0.33	1.3	7.97	80		41-126			
Acenaphthylene	10K0751		20	ug/L	0.69	2.5	16.9	84		42-126			
Anthracene	10K0751		1.0	ug/L	0.038	0.13	0.943	94		34-128			
Benzo (a) anthracene	10K0751		1.0	ug/L	0.044	0.13	0.991	99		62-115			
Benzo (b) fluoranthene	10K0751		2.0	ug/L	0.098	0.25	1.90	95		72-127			
Benzo (k) fluoranthene	10K0751		1.0	ug/L	0.049	0.13	0.967	97		73-124			
Benzo (a) pyrene	10K0751		1.0	ug/L	0.032	0.13	0.888	89		41-126			
Benzo (g,h,i) perylene	10K0751		2.0	ug/L	0.12	0.25	1.93	96		69-120			
Chrysene	10K0751		1.0	ug/L	0.041	0.13	1.08	108		66-118			
Dibenzo (a,h) anthracene	10K0751		2.0	ug/L	0.13	0.25	1.63	82		71-123			
Fluoranthene	10K0751		2.0	ug/L	0.081	0.25	2.09	104		60-128			
Fluorene	10K0751		2.0	ug/L	0.062	0.25	2.06	103		43-140			
Indeno (1,2,3-cd) pyrene	10K0751		1.0	ug/L	0.062	0.13	1.04	104		67-118			
1-Methylnaphthalene	10K0751		10	ug/L	0.32	1.3	7.22	72		34-123			
2-Methylnaphthalene	10K0751		10	ug/L	0.31	1.3	6.84	68		28-119			
Naphthalene	10K0751		10	ug/L	0.40	1.3	7.61	76		34-120			
Phenanthrene	10K0751		1.0	ug/L	0.030	0.13	0.915	92		54-133			
Pyrene	10K0751		1.0	ug/L	0.044	0.13	1.07	107		56-121			
Surrogate: 2-Fluorobiphenyl	10K0751			ug/L				72		52-116			

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Metals														
QC Source Sample: WTK0859-02														
Mercury	10K0740	<0.000065	0.0025	mg/L	0.000065	0.00023	0.00238	0.00235	95	94	67-141	1	13	
QC Source Sample: WTK0859-02														
Aluminum	10K0746	326	5100	ug/L	150	200	5320	5350	99	100	75-125	1	20	
Antimony	10K0746	<0.61	50	ug/L	0.61	2.0	54.3	51.7	109	103	75-125	5	20	
Arsenic	10K0746	0.810	50	ug/L	0.61	2.0	52.3	51.2	103	101	75-125	2	20	
Barium	10K0746	206	50	ug/L	6.1	20	270	259	128	107	75-125	4	20	MHA
Beryllium	10K0746	<0.12	50	ug/L	0.12	0.40	57.9	54.1	116	108	75-125	7	20	
Cadmium	10K0746	<0.12	50	ug/L	0.12	0.40	52.0	49.9	104	100	75-125	4	20	
Calcium	10K0746	203000	5100	ug/L	1500	5000	221000	216000	344	254	75-125	2	20	MHA
Chromium	10K0746	<0.61	50	ug/L	0.61	2.0	43.6	41.5	87	83	75-125	5	20	
Cobalt	10K0746	0.650	50	ug/L	0.61	2.0	41.8	40.1	82	79	75-125	4	20	
Copper	10K0746	1.39	50	ug/L	0.61	2.0	48.5	47.1	94	91	75-125	3	20	
Iron	10K0746	2770	5100	ug/L	150	500	7280	7080	89	85	75-125	3	20	
Lead	10K0746	<0.61	50	ug/L	0.61	2.0	53.3	51.1	107	102	75-125	4	20	
Magnesium	10K0746	80900	5100	ug/L	1500	5000	88800	89200	156	164	75-125	0	20	MHA
Manganese	10K0746	225	50	ug/L	6.1	20	296	289	141	127	75-125	2	20	MHA
Nickel	10K0746	<0.61	50	ug/L	0.61	2.0	43.2	43.0	86	86	75-125	1	20	
Potassium	10K0746	12500	5100	ug/L	150	500	16600	15900	81	67	75-125	4	20	M2
Selenium	10K0746	<0.61	50	ug/L	0.61	2.0	54.3	53.4	109	107	75-125	2	20	B
Silver	10K0746	<0.61	50	ug/L	0.61	2.0	37.2	34.3	74	69	75-125	8	20	M2
Sodium	10K0746	150000	5100	ug/L	1500	5000	162000	162000	233	228	75-125	0	20	MHA
Thallium	10K0746	<0.12	50	ug/L	0.12	0.40	55.4	53.1	111	106	75-125	4	20	
Vanadium	10K0746	1.65	50	ug/L	0.61	2.0	46.5	44.6	90	86	75-125	4	20	
Zinc	10K0746	<6.0	50	ug/L	6.0	20	50.4	48.7	101	97	75-125	4	20	
VOCs by SW8260B														
QC Source Sample: WTK0859-01														
Benzene	10L0072	<0.20	50	ug/L	0.20	2.0	54.6	54.5	109	109	80-120	0	20	
Bromobenzene	10L0072	<0.20	50	ug/L	0.20	2.0	47.9	47.4	96	95	80-120	1	24	
Bromochloromethane	10L0072	<0.50	50	ug/L	0.50	2.0	50.2	49.8	100	100	80-120	1	14	
Bromodichloromethane	10L0072	<0.20	50	ug/L	0.20	2.0	51.8	50.0	104	100	80-120	4	19	
Bromoform	10L0072	<0.20	50	ug/L	0.20	5.0	48.0	47.8	96	96	80-120	1	26	
Bromomethane	10L0072	<0.50	50	ug/L	0.50	5.0	63.3	69.2	127	138	60-140	9	18	
n-Butylbenzene	10L0072	<0.20	50	ug/L	0.20	2.0	58.2	57.2	116	114	80-120	2	19	
sec-Butylbenzene	10L0072	<0.25	50	ug/L	0.25	2.0	56.3	56.0	113	112	80-120	1	19	
tert-Butylbenzene	10L0072	<0.20	50	ug/L	0.20	2.0	54.5	53.8	109	108	80-120	1	17	
Carbon Tetrachloride	10L0072	<0.80	50	ug/L	0.80	2.0	53.2	52.9	106	106	60-140	1	17	
Chlorobenzene	10L0072	<0.20	50	ug/L	0.20	2.0	50.2	49.2	100	98	80-120	2	16	
Chlorodibromomethane	10L0072	<0.20	50	ug/L	0.20	2.0	49.5	48.1	99	96	80-120	3	23	
Chloroethane	10L0072	<1.0	50	ug/L	1.0	5.0	64.5	67.3	129	135	60-140	4	17	
Chloroform	10L0072	<0.20	50	ug/L	0.20	2.0	52.7	52.5	105	105	80-120	1	14	
Chloromethane	10L0072	<0.30	50	ug/L	0.30	2.0	50.1	50.0	100	100	60-140	0	16	
2-Chlorotoluene	10L0072	<0.50	50	ug/L	0.50	2.0	51.8	50.6	104	101	80-120	2	26	
4-Chlorotoluene	10L0072	<0.20	50	ug/L	0.20	2.0	53.4	52.6	107	105	80-120	2	26	
1,2-Dibromo-3-chloropropane	10L0072	<0.50	50	ug/L	0.50	2.0	44.4	49.2	89	98	60-140	10	26	
1,2-Dibromoethane (EDB)	10L0072	<0.20	50	ug/L	0.20	2.0	48.7	49.1	97	98	80-120	1	19	
Dibromomethane	10L0072	<0.20	50	ug/L	0.20	2.0	46.4	46.2	93	92	80-120	0	26	
1,2-Dichlorobenzene	10L0072	<0.20	50	ug/L	0.20	2.0	50.1	49.6	100	99	80-120	1	23	

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
VOCs by SW8260B														
QC Source Sample: WTK0859-01														
1,3-Dichlorobenzene	10L0072	<0.20	50	ug/L	0.20	2.0	49.7	49.0	99	98	80-120	1	21	
1,4-Dichlorobenzene	10L0072	<0.50	50	ug/L	0.50	2.0	49.7	48.6	99	97	80-120	2	21	
Dichlorodifluoromethane	10L0072	<0.50	50	ug/L	0.50	2.0	55.3	53.7	111	107	60-140	3	19	
1,1-Dichloroethane	10L0072	<0.50	50	ug/L	0.50	2.0	55.8	55.0	112	110	80-120	1	18	
1,2-Dichloroethane	10L0072	<0.50	50	ug/L	0.50	2.0	53.7	53.8	107	108	80-120	0	19	
1,1-Dichloroethene	10L0072	<0.50	50	ug/L	0.50	2.0	55.9	55.8	112	112	80-120	0	18	
cis-1,2-Dichloroethene	10L0072	<0.50	50	ug/L	0.50	2.0	53.3	53.1	107	106	80-120	0	17	
trans-1,2-Dichloroethene	10L0072	<0.50	50	ug/L	0.50	2.0	53.0	52.4	106	105	80-120	1	23	
1,2-Dichloropropane	10L0072	<0.50	50	ug/L	0.50	2.0	52.8	51.3	106	103	80-120	3	18	
1,3-Dichloropropane	10L0072	<0.25	50	ug/L	0.25	2.0	50.7	50.7	101	101	80-120	0	24	
2,2-Dichloropropane	10L0072	<0.50	50	ug/L	0.50	2.0	56.6	56.2	113	112	60-140	1	16	
1,1-Dichloropropene	10L0072	<0.50	50	ug/L	0.50	2.0	54.4	54.1	109	108	80-120	1	16	
cis-1,3-Dichloropropene	10L0072	<0.20	50	ug/L	0.20	2.0	52.8	50.9	106	102	80-120	4	20	
trans-1,3-Dichloropropene	10L0072	<0.20	50	ug/L	0.20	2.0	52.6	51.0	105	102	80-120	3	26	
Isopropyl Ether	10L0072	<0.50	50	ug/L	0.50	2.0	54.3	54.1	109	108	80-120	1	20	
Ethylbenzene	10L0072	<0.50	50	ug/L	0.50	2.0	52.7	51.6	105	103	80-120	2	16	
Hexachlorobutadiene	10L0072	<0.50	50	ug/L	0.50	2.0	51.0	49.7	102	99	60-140	3	20	
Isopropylbenzene	10L0072	<0.20	50	ug/L	0.20	2.0	54.0	53.3	108	107	80-120	1	22	
p-Isopropyltoluene	10L0072	<0.20	50	ug/L	0.20	2.0	54.7	54.1	109	108	80-120	1	20	
Methylene Chloride	10L0072	2.04	50	ug/L	1.0	2.0	54.7	54.0	105	104	80-120	1	24	
Methyl tert-Butyl Ether	10L0072	<0.50	50	ug/L	0.50	2.0	50.9	52.8	102	106	80-120	4	18	
Naphthalene	10L0072	<0.25	50	ug/L	0.25	5.0	46.4	52.1	93	104	60-140	12	24	
n-Propylbenzene	10L0072	<0.50	50	ug/L	0.50	2.0	52.5	51.9	105	104	80-120	1	23	
Styrene	10L0072	<0.50	50	ug/L	0.50	5.0	52.7	51.4	105	103	80-120	3	14	
1,1,1,2-Tetrachloroethane	10L0072	<0.25	50	ug/L	0.25	2.0	50.2	49.2	100	98	80-120	2	17	
1,1,2,2-Tetrachloroethane	10L0072	<0.20	50	ug/L	0.20	2.0	50.1	53.4	100	107	80-120	6	26	
Tetrachloroethene	10L0072	<0.50	50	ug/L	0.50	2.0	49.6	48.5	99	97	80-120	2	18	
Toluene	10L0072	<0.50	50	ug/L	0.50	2.0	52.4	51.4	105	103	80-120	2	18	
1,2,3-Trichlorobenzene	10L0072	<0.25	50	ug/L	0.25	2.0	47.7	50.1	95	100	80-120	5	24	
1,2,4-Trichlorobenzene	10L0072	<0.25	50	ug/L	0.25	2.0	47.9	48.9	96	98	80-120	2	21	
1,1,1-Trichloroethane	10L0072	<0.50	50	ug/L	0.50	2.0	55.3	54.6	111	109	80-120	1	19	
1,1,2-Trichloroethane	10L0072	<0.25	50	ug/L	0.25	2.0	49.7	50.0	99	100	80-120	1	28	
Trichloroethene	10L0072	<0.20	50	ug/L	0.20	2.0	50.8	48.1	102	96	80-120	6	18	
Trichlorofluoromethane	10L0072	<0.50	50	ug/L	0.50	2.0	63.8	64.1	128	128	80-120	1	19	
1,2,3-Trichloropropane	10L0072	<0.50	50	ug/L	0.50	2.0	48.1	50.7	96	101	80-120	5	26	
1,2,4-Trimethylbenzene	10L0072	<0.20	50	ug/L	0.20	2.0	53.8	52.8	108	106	80-120	2	24	
1,3,5-Trimethylbenzene	10L0072	<0.20	50	ug/L	0.20	2.0	54.1	53.4	108	107	80-120	1	24	
Vinyl chloride	10L0072	<0.20	50	ug/L	0.20	2.0	56.4	56.3	113	113	80-120	0	17	
Xylenes, Total	10L0072	<0.50	150	ug/L	0.50	2.0	159	157	106	105	80-120	1	13	
Surrogate: Dibromofluoromethane	10L0072			ug/L					106	107	80-120			
Surrogate: Toluene-d8	10L0072			ug/L					103	102	80-120			
Surrogate: 4-Bromofluorobenzene	10L0072			ug/L					101	102	80-120			
Pentafluorobenzene	10L0072	ND	50	ug/L	N/A	N/A	50.0	50.0	100	100	50-200			
1,4-Difluorobenzene	10L0072	ND	50	ug/L	N/A	N/A	50.0	50.0	100	100	50-200			
Chlorobenzene-d5	10L0072	ND	50	ug/L	N/A	N/A	50.0	50.0	100	100	50-200			

Advanced Environmental Solutions, Inc.
 90 Madison Street
 Worcester, MA 01608
 Mr. Michael Bingham

Work Order: WTK0859
 Project: Former Mirro Plant
 Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
 Reported: 12/10/10 14:51

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
VOCs by SW8260B														
QC Source Sample: WTK0859-01														
1,4-Dichlorobenzene-d4	10L0072	ND	50	ug/L	N/A	N/A	50.0	50.0	100	100	50-200			

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0859
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
Reported: 12/10/10 14:51

CERTIFICATION SUMMARY

TestAmerica Watertown

Method	Matrix	Nelac	Wisconsin
SW 6020A	Water - NonPotable	X	X
SW 7470A	Water - NonPotable	X	X
SW 8260B	Water - NonPotable	X	X
SW 8310	Water - NonPotable	X	X

Advanced Environmental Solutions, Inc.
90 Madison Street
Worcester, MA 01608
Mr. Michael Bingham

Work Order: WTK0859
Project: Former Mirro Plant
Project Number: 60163491 Plant No. 9 Manitowoc,

Received: 11/27/10
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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C4** Calibration Verification recovery was below the method control limit for this analyte.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MHA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
Client Name

Watertown Division
602 Commerce Drive
Watertown, WI 53094
Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

Client #:

Address: 90 Madison Street Suite 605
City/State/Zip Code: Worcester, MA 01608
Project Manager: Mike Bingham | Andrew Mott
Telephone Number: 508 363 4882 Fax:

Project Name: Former Miro Plant # 9
Project #: 6016 3991
Site/Location ID: Manitowoc State: WI

Report To: Mike Bingham
Invoice To: Mike Bingham EAS
Quote #: _____ PO#:

Sampler Name: (Print Name) _____
Sampler Signature: Heather Cleveland

E-mail address: M.Bingham@testamerica.com

TAT Standard Rush (surcharges may apply)

Date Needed: _____
Fax Results: Y N
E-mail: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix					Other (Specify)	Analyze For:	QC Deliverables	REMARKS	
					SL - Sludge GW - Groundwater S - Soil/Solid	WW - Wastewater Specy Other	HNO ₃	HCl	NaOH					H ₂ SO ₄
01 MB-GW-MW-14	11/23/10	1130	G	N	GW									
02 MB-GW-MW-14	11/30	1130												
03 MB-GW-MW-19	11/40	1140												
04 MB-GW-MW-19	11/37	1337												
05 MB-GW-MW-20	11/10	1410												
06 MB-GW-MW-20	11/10	1410												
07 MB-GW-TW-1	11/04	1504												
08 MB-GW-TW-1	11/05	1505												

VOC
TAL
PAH

Special Instructions: Analysis performed in accordance with G and QAIAC data per EPA T3A GAPP-0408C

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
<u>Heather Cleveland</u>	11/24/10	1630	<u>Andrew Mott</u>	11/27/10	1259

LABORATORY COMMENTS:
Init Lab Temp: _____
Rec Lab Temp: 30C
Custody Seal: Y N N/A
Bottles Supplied by TestAmerica: Y N
Method of Shipment: Fed Ex

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
Client Name

Watertown Division
602 Commerce Drive
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036
Fax 920-261-8120

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client #:

Address:

City/State/Zip Code:

Project Manager:

Telephone Number:

Sampler Name: (Print Name)

Sampler Signature:

E-mail address:

Project Name:

Project #:

Site/Location ID:

Report To:

Invoice To:

Quote #:

PO#:

Client #:

Address:

City/State/Zip Code:

Project Manager:

Telephone Number:

Sampler Name: (Print Name)

Sampler Signature:

E-mail address:

Project Name:

Project #:

Site/Location ID:

Report To:

Invoice To:

Quote #:

PO#:

Client #:

Address:

City/State/Zip Code:

Project Manager:

Telephone Number:

Sampler Name: (Print Name)

Sampler Signature:

E-mail address:

TAT Standard <input checked="" type="checkbox"/> Rush (surcharges may apply)	Date Needed:	Fax Results: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	E-mail: <input checked="" type="checkbox"/> <input type="checkbox"/>	SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	Preservation & # of Containers						Other (Specify)	Analyze For:	QC Deliverables	REMARKS
										HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None				
				MB-GW-TW-1	11/23/10	1506	G	N	GN	500									
				MB-GW-TW-1-MG-JMS		1506												received 2	
				MB-GW-TW-2		1525			1 2									received 1	
				MB-GW-TW-2		1525			1 2										
				TRP Blank		1525			1										
				Equipment Blank		1600			2										
				Equipment Blank		1600			1										

Special Instructions:

see prev page

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Temp: 300

Custody Seals: Y N N/A

Bottles Supplied by TestAmerica: Y N

Method of Shipment: Fed Ex

not ice

Relinquished By: *Shelley Child*

Date: 11/23/10

Time: 10:30

Relinquished By:

Date: 11/27/10

Time: 12:59

Relinquished By:

Date:

Time:

Cooler Receipt Log

Work Order(s): WTK0859 Client Name/Project: EAS # of Coolers: 1

1. How did samples arrive? Fed-Ex UPS TestAmerica Client Dunham Speedy _____

Date/time cooler was opened: 11/27/10 12:59 By: Su7/D. Herrig TEMP. 3°

2. Were custody seals intact, signed and dated correctly?..... Intact Broken NA
3. Were samples on ice?..... Yes No
4. Does this Project require quick turn around analysis?..... No Yes
5. Are there any short hold time tests? (48hrs or less) No Yes
- Past Hold?..... No Yes

48 hours or less	7 days
Coliform Bacteria 8/30 hours	Aqueous Organic Prep
Chlorine/Hex Cr 24 hours	TS
BOD	TDS
Nitrate/Nitrite (DW is 14 days)	TSS
Sulfite	Sulfide
Orthophosphate	Volatile Solids
Surfactants (MBAS)	

6. Ops Mgr, PM or Analyst informed of short hold?.....Who _____ When _____
7. Other than short hold test, were any samples within 2 days of their hold date No Yes
 Or past their expiration of hold time No Yes
8. Is the date and time of collection recorded? Date Yes No
 Time..... Yes No
9. Were all sample containers listed on the COC received and intact? Yes No
10. Do sample containers received and COC match?..... Yes No
11. Are dissolved parameters field filtered or being filtered in the lab?..... Field Lab NA
12. Are sample volumes adequate and preservatives correct for test requested? Vol..... Yes No
 Pres..... Yes No
13. Do VOC samples have air bubbles >6mm?..... No Yes NA
14. Is an aqueous Trip Blank included?..... Yes No NA
15. Are any samples on hold? No Yes
16. Are there samples to be subcontracted? No Yes
17. Is a Methanol Trip Blank included?..... Yes No NA
18. How were VOC soils received? Methanol Sodium Bisulfate Packed Jar Encore Other Water (see options*)
 * Within 48hrs of sampling Past 48hrs of sampling Frozen Not Frozen

If any changes are made to this Work Order after Login, or if comments must be made regarding this cooler, explain them below:

received 2 MB-GW-TW-1, COC days 1

received 1 MB-GW-TW-1 MS/MSD, COC days 2

APPENDIX D

**GROUNDWATER DEVELOPMENT AND SAMPLING FIELD
LOGS**

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

Facility/Project Name <u>Former Micro Plant #9</u>	County Name <u>Manitowoc</u>	Well Name <u>mw-14</u>
Facility License, Permit or Monitoring Number	County Code <u>36</u>	Wis. Unique Well Number <u>VT031</u>
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____

3. Time spent developing well _____ 120 min.
4. Depth of well (from top of well casing) _____ 14.4 ft.
5. Inside diameter of well _____ 2.06 in.
6. Volume of water in filter pack and well casing _____ 5 gal.
7. Volume of water removed from well _____ 17.0 gal.
8. Volume of water added (if any) _____ 0.0 gal.
9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ <u>7.60</u> ft.	_____ <u>7.69</u> ft.
Date	b. <u>10/20/2010</u>	<u>10/20/2010</u>
	m m d d y y y y	m m d d y y y y
Time	c. _____ <input checked="" type="checkbox"/> a.m.	_____ <input checked="" type="checkbox"/> a.m.
	_____ <input type="checkbox"/> p.m.	<u>10:00</u> <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ <u>1.0</u> inches	_____ <u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Sandy brown</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)

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

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

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Heather Last Name: Cleveland

Firm: AECOM

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Eric Last Name: Spirtas

Facility/Firm: ES Spirtas Manitowoc, LLC

Street: 11469 Olive Blvd - Suite #124

City/State/Zip: Creve Coeur, MO 63141

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

Signature: Andrew Mott

Print Name: Andrew Mott

Firm: AECOM

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

Facility/Project Name <u>Former Micro Plant #9</u>	County Name <u>Manitowoc</u>	Well Name <u>MW-15</u>
Facility License, Permit or Monitoring Number	County Code <u>36</u>	Wis. Unique Well Number <u>VT 032</u>
		DNR Well ID Number

- Can this well be purged dry? Yes No
- Well development method
 - surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
- Time spent developing well 60 min.
- Depth of well (from top of well casing) 15.0 ft.
- Inside diameter of well 2.06 in.
- Volume of water in filter pack and well casing 1.3 gal.
- Volume of water removed from well 13.0 gal.
- Volume of water added (if any) 0.0 gal.
- Source of water added _____
- Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>6.93</u> ft.	<u>7.02</u> ft.
Date	b. <u>10/21/2010</u>	<u>10/21/2010</u>
Time	c. <u>3:20</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>9:20</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe) _____	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____

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

14. Total suspended solids _____ mg/l

15. COD _____ mg/l

16. Well developed by: Name (first, last) and Firm
 First Name: Heather Last Name: Cleveland
 Firm: AECOM

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
 First Name: Eric Last Name: Spintas
 Facility/Firm: ES Spintas Manitowoc, LLC.
 Street: 11469 Olive Blvd - Suite #124
 City/State/Zip: Creve Coeur, MO 63141

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

Signature: Andrew Mott
 Print Name: Andrew Mott
 Firm: AECOM

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

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

Facility/Project Name <u>Former Micro Plant #9</u>	County Name <u>Manitowoc</u>	Well Name <u>MW-16</u>
Facility License, Permit or Monitoring Number	County Code <u>36</u>	Wis. Unique Well Number <u>VT 033</u>
		DNR Well ID Number

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
3. Time spent developing well 60 min.
4. Depth of well (from top of well casing) 15.0 ft.
5. Inside diameter of well 2.26 in.
6. Volume of water in filter pack and well casing 1.1 gal.
7. Volume of water removed from well 11.0 gal.
8. Volume of water added (if any) 0.0 gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>3.06</u> ft.	<u>3.17</u> ft.
Date	b. <u>10/21/2010</u> m m d d y y y y	<u>10/21/2010</u> m m d d y y y y
Time	c. <u>9:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>10:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Sandy brown</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Heather Last Name: Cleveland

Firm: AECOM

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Eric Last Name: Spintas

Facility/Firm: EJ Spintas Manitowoc, LLC

Street: 11469 Olive Blvd - Suite #124

City/State/Zip: Crane Couer, MO 63141

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

Signature: Andrew Mott

Print Name: Andrew Mott

Firm: AECOM

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

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

Facility/Project Name <u>Former Micro Plant #9</u>	County Name <u>Manitowoc</u>	Well Name <u>MW-16A</u>
Facility License, Permit or Monitoring Number	County Code <u>36</u>	Wis. Unique Well Number <u>VT034</u>
		DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/> 41
surged with bailer and pumped	<input type="checkbox"/> 61
surged with block and bailed	<input type="checkbox"/> 42
surged with block and pumped	<input type="checkbox"/> 62
surged with block, bailed and pumped	<input type="checkbox"/> 70
compressed air	<input type="checkbox"/> 20
bailed only	<input type="checkbox"/> 10
pumped only	<input type="checkbox"/> 51
pumped slowly	<input type="checkbox"/> 50
Other _____	<input type="checkbox"/>

3. Time spent developing well 120 min.

4. Depth of well (from top of well casing) 32.0 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 3.9 gal.

7. Volume of water removed from well 40.0 gal.

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

9. Source of water added _____

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>5.25</u> ft.	<u>5.25</u> ft.
Date	b. <u>10/21/2010</u> m m d d y y y y	<u>10/21/2010</u> m m d d y y y y
Time	c. <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>6</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Sandy brown</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

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

17. Additional comments on development:

16. Well developed by: Name (first, last) and Firm
First Name: Heather Last Name: Cleveland
Firm: AECOM

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Eric Last Name: Spintas

Facility/Firm: EJ Spintas Manitowoc, LLC

Street: 11469 Olive Blvd - Suite #124

City/State/Zip: Creve Coeur, MO 63141

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

Signature: Andrew Mott

Print Name: Andrew Mott

Firm: AECOM

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

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

Facility/Project Name <u>Former Micro Plant #9</u>	County Name <u>Manitowoc</u>	Well Name <u>MW-17</u>
Facility License, Permit or Monitoring Number	County Code <u>36</u>	Wis. Unique Well Number <u>V T O 9 5</u>
		DNR Well ID Number

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
3. Time spent developing well 60 min.
4. Depth of well (from top of well casing) 15.0 ft.
5. Inside diameter of well 2.06 in.
6. Volume of water in filter pack and well casing 1.2 gal.
7. Volume of water removed from well 13.0 gal.
8. Volume of water added (if any) 0.0 gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>2.13</u> ft.	<u>2.62</u> ft.
Date	b. <u>10/21/2010</u>	<u>10/21/2010</u>
Time	c. <u>12:00</u> <input checked="" type="checkbox"/> p.m.	<u>1:00</u> <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>3</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Sandy brown</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Heather Last Name: Cleveland

Firm: AECOM

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Eric Last Name: Spietas

Facility/Firm: EJ Spietas Manitowoc, LLC

Street: 11469 Olive Blvd - Suite #124

City/State/Zip: Crovec Coeur, MO 63141

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

Signature: Andrew Mott

Print Name: Andrew Mott

Firm: AECOM

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

Facility Name: Form M.I.R.O. Plant No. 9 License, Permit or Monitoring No. 11/10/10 Date 10/20/2010 Completed By (Name and Firm) Andrew Mott, AECOM

WI Unique Well No	DNR Well ID Number	Well Name	Well Location	Dir. N S E W	Date Established	Well Casing		Elevations		Reference		Depths		Well Type	Well Status	Enf. Grad. Distance to Waste
						Diam.	Type	Top of Well Casing	Ground Surface	MSL (ft)	Site Datum (ft)	Screen Top	Initial Groundwater			
V7091		MW-14			10/20/2010	2.00	PVC	605.33	605.60			7.70	10	MW		
V7092		MW-5						601.09	601.56			7.10	10	MW		
V7093		MW-16						598.95	599.60			8.17	10	MW		
V7094		MW-16A						599.29	599.65			5.10	5	PiZO		
V7095		MW-17						605.34	600.86			7.23	10	MW		

Location Coordinates Are:
 State Plane Coordinate
 Northern
 Central
 Southern
 Local Grid System

Grid Origin Location: (Check if estimated:)
 Lat. _____ ° _____ ' _____ " Long. _____ ° _____ ' _____ " or
 St. Plane _____ ft. N. _____ ft. E. S/C/N Zone _____

Remarks: _____

Completion of this form is mandatory under s. NR 307.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than \$10 nor more than \$5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

Facility Name: Former M; 100 Plant No. 9 License, Permit or Monitoring No.: 11/23/10 Date: 11/23/10 Completed By (Name and Firm): Andrew Mott, AECOM

WI Unique Well No.	Well Name	DNR Well ID Number	Well Location	Dir. N/S/E/W	Date Established	Well Casing		Elevations		Reference MSL (+/-)	Site Datum (N)	Screen Top	Depths		Well Type	Well Status	Enf. Stds.	Grad. Distance to Waste
						Diam.	Type	Top of Well Casing	Ground Surface				Initial Groundwater	Well Depth				
V1021	MW-14												7.60					
V1022	MW-15												7.08					
V1023	MW-16												3.06					
V1024	MW-16A												5.05					
V1025	MW-17												7.06					
	TW-1												10.40					NO Free product
	TW-2												10.64					NO Free product
	TW-5												DRY					
	SB-5												FR-13.25 WT-13.46					Free product - 0.21 inches
	MW-18												FR-12.95 WT-13.81					Free product - 0.86 inches
	MW-19												11.89					NO Free Product

Remarks: _____

Grid Origin Location: (Check if estimated:)
 Lat. _____ ° _____ ' _____ " Long. _____ ° _____ ' _____ " or _____ ° _____ ' _____ " ft. E. S/C/N Zone
 St. Plane _____ ft. N. _____ ft. E.

Location Coordinates Are:
 State Plane Coordinate Local Grid System
 Northern Central Southern

Completion of this form is mandatory under s. NR 307.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than \$10 nor more than \$5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

Well Purging and Sample Collection

Site: Former Mirro Plant #9

Well No.: MW-14

Weather Conditions: 25F

Project No.: 60163491

Development Method (circle one): Pumped, Bailed, Other: _____

Pump Type (circle one): Keck, Grundfos, Other: _____

Bailer Type (circle one): Disposable, PVC, Stainless Steel, Other: _____

Volume Calculation: _____

(D.T.B. - D.T.W. x vol./ft. = Gals./Well Vol.)

Gals./Well Vol. $(14.35 - 7.70) \times 0.16 = 1.06$

(Gals./Well Vol. x 5 = Total Volume to be Removed)

5.5

Date	Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond. (µS)	Temp. (C°)	Color	ORP (mV)	DO (mg/l)	Turbidity (L=Low M=Medium H=High) Or NTUs
11/23	10:20	7.70	14.35	—							
	10:30	10.92	↓	1 gal	4.11	2103	10.0	clean	182	3.98	low 1431
	10:45	10.58		2.5 gal	5.35	2000	9.6	clean	94	1.30	low 1891
	11:05	10.35		4.0 gal	5.78	1902	9.8	clean	57	0.92	low 1794
	11:20	10.90		5.0 gal	6.04	1923	10.5	clean	29	1.18	low 1762
	11:30	—		5.5 gal	6.00	1920	10.4	clean	13	1.14	low 1738
Sample Readings											

Comments: _____

1130 1130 1190

VOC, VOC MS/MSD TAL

Field Blank Taken: No.: _____

Time: _____

Inside Diameter	vol./ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Well Duplicate No.: _____

Signature: [Signature]

Date: 11/23/10

Location	PID/ppm	LEL/%	O ₂ /%	H ₂ S/ppm	CO/ppm	Time

Well Purging and Sample Collection

Site: Former Mirror Plant #9

Well No.: MW-15

Weather Conditions: 32°F

Project No.: 60/63491

Development Method (circle one): Pumped Bailed, Other: _____

Pump Type (circle one): Keck, Grundfos, Other: _____

Bailer Type (circle one): Disposable, PVC, Stainless Steel, Other: _____

Volume Calculation: _____

(D.T.B. - D.T.W. x vol./ft. = Gals./Well Vol.)

Gals./Well Vol.: $(15.28 - 7.10) * 0.16 = 1.3$

(Gals./Well Vol. x 5 = Total Volume to be Removed)

$1.3 * 5 = 6.5$

Date	Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond. (µS)	Temp. (C°)	Color	ORP (mV)	DO (mg/l)	Turbidity (L=Low M=Medium H=High) Or NTUs	TDS ppm
11/16/10	1010	7.10	15.28	—								
	1153	8.02		1	5.22	997.3	19.6	clear	226	1.25	low	861
	1210	7.95		3	6.17	986.5	19.9	clear	141	0.51	low	851
	1221	7.95		4	6.69	980.9	19.8	clear	117	0.51	low	895
	1231	7.95		5	6.89	981.2	19.7	clear	107	0.53	low	896
	1243	—		6.5	7.01	978.7	19.9	clear	93	0.55	low	899
Sample Readings												

Comments: _____

Inside Diameter	vol./ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Field Blank Taken: No.: _____ Time: VOL 1245 TAL 1247

Well Duplicate No.: _____

Signature: [Signature]

Date: 11/16/10

Location	PID/ppm	LEL/%	O ₂ /%	H ₂ S/ppm	CO/ppm	Time

Well Purging and Sample Collection

Site: Former Mine Plant #9 Well No.: MW-16

Weather Conditions: 32°F Project No.: 60163471

Development Method (circle one): Pumped, Bailed, Other: _____ Pump Type (circle one): Keck, Grundfos, Other: _____

Bailer Type (circle one): Disposable, PVC, Stainless Steel, Other: _____

Volume Calculation: _____

(D.T.B. - D.T.W. x vol./ft. = Gals./Well Vol.) Gals./Well Vol.: $(14.95 - 8.17) \times 0.16 = 1.1$
 (Gals./Well Vol. x 5 = Total Volume to be Removed) $1.1 \times 5 = 5.5$

Slowed Pump

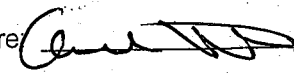
Date	Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond. (µS)	Temp. (C°)	Color	ORP (mV)	DO (mg/l)	Turbidity (L=Low M=Medium H=High) Or NTUs
11/16/10	1013	8.17	14.95								
	1525	9.25		1	7.78	567.7	12.4	clear	87	0.90	low 479.3
	1538	11.38		4	7.63	593.1	12.5	clear	91	0.18	low 458.2
	1541	11.50		4.5	7.61	540.9	12.5	clear	92	0.17	low 456.3
	1545	11.40		5.0	7.59	559.3	12.5	clear	95	0.18	low 467.9
	1550	11.30		5.5	7.60	565.1	12.5	clear	101	0.23	low 476.9
Sample Readings											

Comments: 1552 VOC 1555 TAL 1558 PAM 1558 PAM DUP

Inside Diameter	vol./ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Field Blank Taken: No.: _____ Time: _____

Well Duplicate No.: _____

Signature: 

Date: 11/16/10

Location	PID/ppm	LEL/%	O ₂ /%	H ₂ S/ppm	CO/ppm	Time



Well Purging and Sample Collection

Site: Former Micro Plant #9

Well No.: MW-16A

Weather Conditions: 50°F Cloudy, some sun

Project No.: 60163491

Development Method (circle one) Pumped, Bailed, Other: _____

Pump Type (circle one): Keck, Grundfos, Other: _____

Bailer Type (circle one): Disposable, PVC, Stainless Steel, Other: _____

Volume Calculation: _____

(D.T.B. - D.T.W. x vol./ft. = Gals./Well Vol.)
(Gals./Well Vol. x 5 = Total Volume to be Removed)

Gals./Well Vol.: $(29.30 - 5.10) \times 0.16 = 3.9$
 $3.9 \times 5 = 19.5$

Date	Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond. (µS)	Temp. (C°)	Color	ORP (mV)	DO (mg/l)	Turbidity (L=Low M=Medium H=High) Or NTUs
11/10/10	1017	5.10	29.30	—							
	1315	5.18		1	7.31	828.0	11.9	clear	146	1.11	low 712.8
	1325	5.19		2	7.44	820.3	11.9	clear	131	0.37	low 706.5
	1339	5.22		4	7.47	817.2	11.3	clear	121	0.22	low 703.8
	1356	5.22		7	7.52	816.5	11.2	clear	109	0.19	low 703.6
	1415	5.23		10	7.57	815.3	11.2	clear	105	0.16	low 702.5
	1440	5.25		14	7.65	813.0	11.1	clear	111	0.16	low 701.3
	1455	5.26		17	7.66	811.9	11.1	clear	105	0.17	low 699.6
	1510	5.25		19.5	7.65	811.2	11.1	clear	91	0.14	low 699.0
Sample Readings											

Increase flow

Comments: _____

15:12 VOC 15:12 VOC DUP

Field Blank Taken: No.: _____ Time: _____

Inside Diameter	vol./ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Well Duplicate No.: _____

Signature:

Date: 11/10/10

Location	PID/ppm	LEL/%	O ₂ /%	H ₂ S/ppm	CO/ppm	Time



Well Purging and Sample Collection

Site: Ferrier Micro Plant #9

Well No.: MW-17

Weather Conditions: 45°F

Project No.: 60113-191

Development Method (circle one): Pumped, Bailed, Other: _____

Pump Type (circle one): Keck, Grundfos, Other: _____

Bailer Type (circle one): Disposable, PVC, Stainless Steel, Other: _____

Volume Calculation: _____

(D.T.B. - D.T.W. x vol./ft. = Gals./Well Vol.)

$$\text{Gals./Well Vol.: } (15.35 - 7.23) * 0.16 = 8.12 * 0.16 = 1.3 * 5 = 6.5$$

(Gals./Well Vol. x 5 = Total Volume to be Removed)

Date	Time	Depth to Water (D.T.W.)	Depth to Bottom (D.T.B.)	Volume Removed (gal.)	pH	Cond. (µS)	Temp. (C°)	Color	ORP (mV)	DO (mg/l)	Turbidity (L=Low M=Medium H=High) Or NTUs
11/10/10	1029	7.23	15.35								
	1620	7.95		1	7.99	2013	19.1	dem	131	0.69	low 1865
	1630	8.10		2.5	7.99	1914	19.3	dem	125	1.57	low 1791
	1642	8.10		4.0	7.57	1999	19.3	dem	124	0.90	low 1832
	1648	8.10		5.5	7.95	2028	19.3	dem	124	0.75	low 1856
	1655	8.10		6.5	7.50	2036	19.2	dem	122	0.73	low 1865
				Sample Readings							

Comments: _____

Inside Diameter	vol./ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

1700 NDC 1702 TAZ

Field Blank Taken: No.: _____ Time: _____

Well Duplicate No.: _____

Signature: [Signature]

Date: 11/10/10

Location	PID/ppm	LEL/%	O ₂ /%	H ₂ S/ppm	CO/ppm	Time

APPENDIX E

**INVESTIGATION DERIVED WASTE DISPOSAL
DOCUMENTATION**



LIQUID WASTE, INC.

10687

210 Tower Road • Winneconne, WI 54986
Phone: 920-582-7596 • Fax: 920-582-3989

NON HAZARDOUS WASTE CERTIFICATION MANIFEST

SHIPPER MIRRO / ADVANCED ENVIRONMENTAL SOLUTIONS DESCRIPTION SOIL DRUMS
ADDRESS 90 MADISON STREET SUITE 209 VOLUME (5) 55 GALLON DRUMS LIQUID SOLID
CITY WORCESTER, MA STATE MA PHONE _____

RECEIVING FACILITY WASTE MANAGEMENT VALLEY TRAIL PROFILE # BFO 493526
ADDRESS N 9101 WILLARD ROAD DATE 1-5-11
CITY, STATE, ZIP BERLIN, WI

I **SHIPPER** UNDER PENALTY OF LAW CERTIFIES THAT THIS WASTE IS NON HAZARDOUS PER 40 CFR PART 261. THIS WASTE DOES NOT CONTAIN PCB'S IN CONCENTRATIONS ABOVE LIMITS FOR SUBTITLED FACILITIES. I AM AWARE OF PENALTIES FOR FALSE CERTIFICATIONS.

SHIPPER _____ SIGNATURE _____
DRIVER Nate Ihry SIGNATURE Nate Ihry
RECEIVED BY Susan Buckholz SIGNATURE Susan Buckholz
WHITE & YELLOW - CLW / PINK - RECEIVING FACILITY / GOLD - GENERATOR



LIQUID WASTE, INC.

10688

210 Tower Road • Winneconne, WI 54986
Phone: 920-582-7596 • Fax: 920-582-3989

NON HAZARDOUS WASTE CERTIFICATION MANIFEST

SHIPPER MIRRO / ADVANCED ENVIRONMENTAL SOLUTIONS DESCRIPTION WATER DRUMS
ADDRESS 90 MADISON STREET SUITE 209 VOLUME (3) 55 GALLON DRUMS LIQUID SOLID
CITY WORCESTER, MA STATE MA PHONE _____

RECEIVING FACILITY WASTE MANAGEMENT VALLEY TRAIL PROFILE # SBR 493526
ADDRESS N 9101 WILLARD ROAD DATE 1-5-11
CITY, STATE, ZIP BERLIN, WI

I **SHIPPER** UNDER PENALTY OF LAW CERTIFIES THAT THIS WASTE IS NON HAZARDOUS PER 40 CFR PART 261. THIS WASTE DOES NOT CONTAIN PCB'S IN CONCENTRATIONS ABOVE LIMITS FOR SUBTITLED FACILITIES. I AM AWARE OF PENALTIES FOR FALSE CERTIFICATIONS.

SHIPPER _____ SIGNATURE _____
DRIVER Nate Ihry SIGNATURE Nate Ihry
RECEIVED BY Susan Buckholz SIGNATURE Susan Buckholz

APPENDIX F

QA/QC DATA USABILITY WORKSHEETS

**DATA QA/QC DOCUMENTATION WORKSHEET:
ANALYTICAL DATA USABILITY ASSESSMENT**

DATE: January 7, 2011
PROJECT: Former Mirro Plant, Manitowoc, WI, Targeted Brownfield Assessment
LABORATORY (name and location): TestAmerica, Watertown, WI
SAMPLING DATE(S): October 18 and 19, 2010
SDG: WTJ0823

ANALYSES AND ANALYTICAL METHODS:

Matrix	Analysis	Prep Method	Analytical Method
Soil	Volatile Organic Compounds (VOCs)	SW-846, 5035B	SW-846, 8260B
Soil	Polynuclear Aromatic Hydrocarbons (PAHs)	SW-846, 8310	SW-846, 8310

SAMPLES AND PARAMETERS:

Sample	Matrix	VOC	PAH
MB-SB-MW-14@6-8'	Soil	X	
MB-SB-MW-15@2.2-4'	Soil		X
MB-SB-MW-15@5.5-6.5'	Soil	X	
MB-SB-MW-17@2.5-4'	Soil		X
MB-SB-MW-17@5-7'	Soil	X	
MB-SB-MW-16A@2-4'	Soil	not analyzed	
MB-SB-MW-16A@2-4' DUP	Soil		X
MB-SB-MW-16A@6-8'	Soil	X	
MB-SB-MW-16A@29-30'	Soil	X	

PROJECT OBJECTIVES: Soil analytical data were generated as part of a Targeted Brownfields Assessment of the former Mirro Plant No. 9 site, located at 1512 Washington Street in Manitowoc, Wisconsin. The data will be used to provide information on the nature and extent of elevated VOCs, PAHs, and metals in soil, oil, and groundwater and to identify whether other contaminants may be present. The data will be used to enhance the existing limited subsurface information in order to support remedial design and closure, to delineate extent of soil and groundwater contamination previously documented, and to prepare an Analysis of Brownfield Cleanup Alternative.

ANALYTES OF INTEREST/SITE HISTORY: VOCs, SVOCs, and metals. Specifically the following compounds have been detected or exceeded WDNR standards:

- Aluminum (soil)
- Selenium (soil)
- Chloromethane (soil)
- Naphthalene (soil)
- Tetrachloroethene (PCE) (soil)
- Aroclor 1260 (PCB) (soil)
- Chrysene (groundwater)
- Cis-1,2-dichloroethene (groundwater)

Benzo(b)fluoranthene (soil and groundwater)
Trichloroethylene (TCE) (soil and groundwater)
Benzene (soil and groundwater)

PROJECT ACTION LEVELS: Wisconsin Department of Natural Resources (WDNR) RCLs.

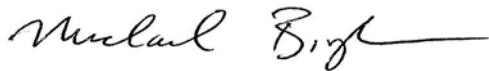
Data Reviewer: Kristin Rutherford



January 10, 2011

(signature, date)

Project Manager: Mike Bingham



January 10, 2011

(signature, date)

<u>Data Usability Assessment</u>	
<p>List all activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment. Include the media sampled and the month and year the data were acquired.</p>	<p><input checked="" type="checkbox"/> (X) Listed below (for this SDG only).</p> <p>Activity: Sampling under a Targeted Brownfield Assessment. Media: Soils Sampling Month and Year: October 2010</p> <p><input type="checkbox"/> () Attached separately</p>
<p>Discuss appropriateness of selected analytical methods to quantitatively support the site investigation (exclusive of sensitivity).</p>	<p>USEPA SW-846 analytical methods used were appropriate and data is usable for project objectives.</p>
<p>Discuss appropriateness of selected analytical methods' Reporting Limits (RL) with respect to WDNR criteria.</p>	<p><input type="checkbox"/> () All Reporting Limits were at or below applicable criteria in all samples.</p> <p><input type="checkbox"/> () Reporting Limits were above applicable WDNR criteria for certain analytes in certain samples, due to sample dilution because of elevated concentrations of other target analytes, non-target analytes, or matrix interferences. See attached table:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> () This limitation is significant for the following analytes and samples: <p><input type="checkbox"/> () Reporting limits were above applicable WDNR criteria for the following analytes that are acknowledged Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.

Data Usability Assessment

	<p>(X) Reporting limits were above applicable WDNR criteria for the following samples and analytes, unrelated to dilution and exclusive of Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - (X) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. <p>VOCs: 1,2,3-trichloropropane and 1,2-dibromo-3-chloropropane in all soil samples</p> <ul style="list-style-type: none"> - () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.
<p>Discuss laboratory performance criteria and data quality indicators utilized to assess overall <u>Analytical Accuracy</u> (continuing calibration, laboratory control spikes, etc.) and <u>Analytical Precision</u> (laboratory duplicates, laboratory control spike duplicates, etc.).</p>	<p>() Met all requirements and performance standards without qualification. (X) Did not meet all requirements and performance standards.</p> <p><u>Surrogate Recoveries:</u> () All criteria met (X) Recoveries for some samples and analytes were outside criteria, leading to potential bias in results as summarized below:</p> <p>PAHs: Due to target compound concentrations, sample MB-SB-MW-16A@2-4' DUP required analysis at 4.8X and 23.8X dilutions. As a result, the surrogate was not recovered and the extraction efficiency could not be assessed. The results for PAHs may be biased; the direction of bias is not known. Since the associated LCS recoveries were acceptable, professional judgment was used to not reject the data based on surrogate recoveries. The data are usable for project objectives.</p> <p>() Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>Method Blanks:</u> (X) No detections in blanks () The following analytes were detected in one or more blanks, but concentrations are well below Project Action Levels, and/or analytes were not detected in associated field samples: () The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines (NFG) may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:</p>

Data Usability Assessment

	<p><u>Laboratory Control Spikes/LCSD:</u> (X) All criteria met</p> <p>() Recoveries and/or RPDs outside criteria for some analytes as described below; some bias may be present:</p> <p>() Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>Internal Standards:</u> (X) Data not provided () All criteria met () Recoveries and/or retention times outside criteria for some analytes as described below; some bias may be present: () Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>GC/MS Tunes:</u> (X) Data not provided () All criteria met () Analysis time and/or tune criteria not met as described below:</p> <p><u>Calibrations:</u> (X) Data not provided () All criteria met () Minimum response factor/correlation coefficient, %RPD, %recovery, and/or %D outside criteria for some compounds as described below; some bias may be present. () Minimum response factors do not meet criteria; the following data rejected:</p> <p><u>MS/MSD:</u> (X) Site-specific MS/MSD performed; see Field Data Usability discussion () Site-specific MS/MSD not requested</p>
<p>Discuss performance criteria and data quality indicators utilized to assess overall <u>Field Data Usability</u> (sample preservation compliance, sample sub sampling/compositing, etc.)</p>	<p>() Sampling procedures as performed and sample containers used met all requirements and performance standards without qualification.</p> <p>(X) Variances from requirements and performance standards for sampling procedures or containers occurred. Discuss data usability implications here.</p> <p>The sample container for MB-SB-MW-16A@2-4' was impacted by melted ice during shipment and was not analyzed by the laboratory. The sample's field duplicate, MB-SB-MW-16A@2-4' DUP was analyzed for PAHs and the data are usable for site decision-making.</p> <p>(X) Sample preservation requirements and holding times met all requirements and performance standards without qualification.</p>

Data Usability Assessment

Variances from requirements occurred. Discuss data usability implications here or reference where discussed elsewhere (e.g., under Rejections).

Field QC Sample Evaluation

Field Duplicate RPDs:

Field duplicates not collected for this site*.

*Field duplicates not reported in this SDG.

RPD met criteria (that is, were $\leq 50\%$ for soil and $\leq 30\%$ for aqueous for detected analytes under the following circumstances):

Inorganics: both analytes detected at greater than 2x the RL
Organics: both analytes detected at greater than 4x the RL

RPD exceeded limits for the following analytes:

- All detections in both samples are well below applicable criteria; precision is acceptable for site decision-making:
- Detections in samples are near applicable criteria; precision is not acceptable for site decision-making:

Site-Specific MS/MSD:

None collected

Collected and recoveries/RPDs within criteria

Recoveries and RPDs within criteria for PAHs. An MS/MSD was not analyzed for VOCs in this SDG.

Collected; poor precision and/or accuracy noted in case narrative for some analytes indicates potential bias, as follows:

Collected; poor recoveries require data rejection as discussed in Section on Rejections.

Sample Duplicate

Data not provided

Laboratory duplicate analyzed and percent difference is within criteria.

Laboratory duplicates analyzed and percent difference is outside criteria indicating potential bias.

Data Usability Assessment

Trip Blanks:

(X) None collected
() Collected, no detections
() The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Equipment Blanks:

() None collected
() Collected, no detections
(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

An equipment blank associated with the soil samples in this SDG was collected and reported in SDG WTK0161:

VOCs:

Toluene was detected in the equipment blank associated with these samples at levels greater than the method detection limit but below the reporting limit. Since the associated samples are nondetect, the results are usable for site decision-making.

Data Usability Assessment

Discuss any data rejected pursuant to USEPA NFG.

Provide **Technical Justification** if data rejections are applied to results that may meet USEPA NFG, but are still rejected based on professional judgment.

Provide **Technical Justification** if data are judged usable based on professional judgment, despite failure of USEPA NFG.

(X) No data rejected pursuant to USEPA National Functional Guidelines (NFG)

() Rejections are recommended based on the following USEPA National Functional Guidelines criteria:

() Some rejection decisions were made that are not fully in accordance with USEPA National Functional Guidelines. Affected samples/analytes and Technical Justification follow:

Summarize analytical data usability for this Sample Delivery Group.	<p>() All data are usable for project objectives. No potential for bias is indicated.</p> <p>(X) Data are usable for project objectives, with limitations as noted below:</p> <p><u>Sensitivity – Comparison to Standards:</u></p> <ul style="list-style-type: none">(X) Non-detects for the following analytes are not usable for direct comparison to applicable WDNR criteria, because reporting limits in one or more field samples exceeded criteria, and the analytes are Analytes of Interest for this site: <p>VOCs: 1,2,3-trichloropropane and 1,2-dibromo-3-chloropropane in all soil samples</p> <p><u>Sensitivity – Blank Contamination</u></p> <ul style="list-style-type: none">() The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA NFG may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <p><u>Accuracy/Bias:</u></p> <ul style="list-style-type: none">(X) Bias is likely for the following Analytes of Interest and samples, based on surrogate recoveries outside criteria: <p>PAHs: The results for PAHs in sample MB-SB-MW-16A@2-4' DUP may be biased; the direction of bias is not known.</p> <ul style="list-style-type: none">() Bias is likely for the following Analytes of Interest and samples, based on calibrations outside criteria:() Bias is likely for the following Analytes of Interest in all samples, based on MS/MSD, LCS/LCSD, and/or LFB recoveries outside criteria:() Bias is likely for the following Analytes of Interest, based on holding time criteria: <p><u>Precision:</u></p> <ul style="list-style-type: none">() Precision does not meet RPD criteria for the following Analytes of Interest, based on review of field duplicate results:() Precision does not meet % Difference criteria for the following Analytes of Interest, based on review of serial dilution results:
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	<p>() Data for the following Analytes of Interest in the following samples are not usable because results were rejected due to limitations identified in the quality control review:</p>
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REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS

Purpose: To determine if data are unusable for supporting environmental investigation and remediation due to gross failure of quality control.

References:

USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organics Methods Data Review, June 2008

USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004

Definition of Rejected Data: The data are unusable (analyte/compound may or may not be present) due to gross failure of quality control criteria and cannot be used to support project objectives.

Inorganic Criteria for Rejection of Data: Applicable to metals, hexavalent chromium, cyanide, and other inorganic parameters.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries:
 - Aqueous samples only: recovery < 50%: reject all results for affected analyte (professional judgment commonly used if LCS < 50% but MS shows acceptable recovery to determine result as usable; professional judgment may be used to reject non-detected results only)
 - Soil: solid LCS or Standard Reference Material recoveries compared to vendor control limits: use professional judgment on rejection of data
- Matrix Spike (MS) Recovery: recovery < 30%: reject non-detected results for affected analyte in all associated samples in batch (up to 20 associated samples). Exception: Low recovery of hexavalent chromium in soils may be acceptable if supported by pH and ORP data which demonstrate reducing conditions
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

Organic Criteria for Rejection of Data Applicable to VOCs, SVOCs, ETPH, Pesticides, PCBs, and herbicides, and can also be applied to VPH/EPH.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Sample Preservation (VOCs only): Soil/sediment samples without methanol or water (alternative for low level VOCs only) preservation: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound
- Surrogate Recovery: recovery < 10%: reject associated non-detected results (see RCP method for compounds associated with surrogate by class), except if low recovery is due to necessary analytical dilution(s)

- Matrix Spike/Matrix Spike Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound in unspiked field sample only (i.e., field sample used for MS/MSD only)
- Calibrations: RRF < 0.05 (with no technical justification for RRF being lower): reject non-detected results for affected compound in all associated samples
- Internal Standards: Area Counts < 20% of associated Calibration Standard: reject associated non-detected results, depending on which compounds are quantitated with the affected internal standard
- Dual Column Precision: %D > 100% for single-component pesticides and herbicides: reject positive and non-detected results; % D > 500% for multicomponent pesticides and Aroclors: reject positive and non-detected results
- Endrin/DDT Breakdown: Breakdown >20%: reject non-detected results for endrin or DDT, whichever is affected
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

**DATA QA/QC DOCUMENTATION WORKSHEET:
ANALYTICAL DATA USABILITY ASSESSMENT**

DATE: January 5, 2011
PROJECT: Former Mirro Plant, Manitowoc, WI, Targeted Brownfield Assessment
LABORATORY (name and location): TestAmerica, Watertown, WI
SAMPLING DATE(S): October 29, 2010
SDG: WTK0160

ANALYSES AND ANALYTICAL METHODS:

Matrix	Analysis	Prep Method	Analytical Method
Oil	Polychlorinated Biphenyls (PCBs)	SW-846, 3550B	SW-846, 8082
Wipe	Polychlorinated Biphenyls (PCBs)	SW-846, 3550B	SW-846, 8082

SAMPLES AND PARAMETERS:

Sample	Matrix	PCB
1 st Floor Transformer – Drum 1	Oil	X
2 nd Floor Transformer – Drum 1	Oil	X
Dock Doors #6 & #7 – Storm Drain	Wipe	X

PROJECT OBJECTIVES: Oil and wipe analytical data were generated as part of a Targeted Brownfields Assessment of the former Mirro Plant No. 9 site, located at 1512 Washington Street in Manitowoc, Wisconsin. The data will be used to provide information on the nature and extent of elevated VOCs, PAHs, and metals in soil, oil, and groundwater and to identify whether other contaminants may be present. The data will be used to enhance the existing limited subsurface information in order to support remedial design and closure, to delineate the extent of soil and groundwater contamination previously documented, and to prepare an Analysis of Brownfield Cleanup Alternative.

ANALYTES OF INTEREST/SITE HISTORY: VOCs, SVOCs, and metals. Specifically the following compounds have been detected or exceeded WDNR standards:

- Aluminum (soil)
- Selenium (soil)
- Chloromethane (soil)
- Naphthalene (soil)
- Tetrachloroethene (PCE) (soil)
- Aroclor 1260 (PCB) (soil)
- Chrysene (groundwater)
- Cis-1,2-dichloroethene (groundwater)
- Benzo(b)fluoranthene (soil and groundwater)
- Trichloroethylene (TCE) (soil and groundwater)
- Benzene (soil and groundwater)

PROJECT ACTION LEVELS: Wisconsin Department of Natural Resources (WDNR) RCLs.

Data Reviewer: Kristin Rutherford

Kristin Rutherford

January 10, 2011

(signature, date)

Project Manager: Mike Bingham

Michael Bingham

January 10, 2011

(signature, date)

<u>Data Usability Assessment</u>	
<p>List all activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment. Include the media sampled and the month and year the data were acquired.</p>	<p><input checked="" type="checkbox"/> (X) Listed below (for this SDG only).</p> <p>Activity: Sampling under a Targeted Brownfield Assessment. Media: Oil and Wipe Sampling Month and Year: October 2010</p> <p><input type="checkbox"/> () Attached separately</p>
<p>Discuss appropriateness of selected analytical methods to quantitatively support the site investigation (exclusive of sensitivity).</p>	<p>EPA SW-846 analytical methods used were appropriate and data is usable for project objectives.</p>
<p>Discuss appropriateness of selected analytical methods' Reporting Limits (RL) with respect to WDNR criteria.</p>	<p><input checked="" type="checkbox"/> (X) All Reporting Limits were at or below applicable criteria in all samples.</p> <p>There are no RCLs for PCBs in oil or wipes.</p> <p><input type="checkbox"/> () Reporting Limits were above applicable WDNR criteria for certain analytes in certain samples, due to sample dilution because of elevated concentrations of other target analytes, non-target analytes, or matrix interferences. See attached table:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> () This limitation is significant for the following analytes and samples: <p><input type="checkbox"/> () Reporting limits were above applicable WDNR criteria for the following analytes that are acknowledged Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.

Data Usability Assessment

	<p>() Reporting limits were above applicable WDNR criteria for the following samples and analytes, unrelated to dilution and exclusive of Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.
<p>Discuss laboratory performance criteria and data quality indicators utilized to assess overall <u>Analytical Accuracy</u> (continuing calibration, laboratory control spikes, etc.) and <u>Analytical Precision</u> (laboratory duplicates, laboratory control spike duplicates, etc.).</p>	<p>() Met all requirements and performance standards without qualification. (X) Did not meet all requirements and performance standards.</p> <p><u>Surrogate Recoveries:</u> () All criteria met (X) Recoveries for some samples and analytes were outside criteria, leading to potential bias in results as summarized below:</p> <p>Due to target compound concentrations, all samples required high dilutions. As a result, surrogates were not recovered and the extraction efficiency could not be assessed. The results may be biased; the direction of bias is not known. Since the associated LCS recoveries were acceptable, professional judgment was used to not reject the data based on surrogate recoveries. The data are usable for project objectives.</p> <p>() Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>Method Blanks:</u> (X) No detections in blanks</p> <p>Note: The surrogate recovery of decachlorobiphenyl in the method blank associated with the oil samples was below criteria. The recovery of the second surrogate was acceptable and the blank was nondetect for all PCBs. The data are usable for project objectives.</p> <p>() The following analytes were detected in one or more blanks, but concentrations are well below Project Action Levels, and/or analytes were not detected in associated field samples:</p> <p>() The following analytes were detected in one or more blanks and also in field samples. Data validation under National Functional Guidelines (NFG) may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:</p>

Data Usability Assessment

	<p><u>Laboratory Control Spikes/LCSD:</u> (X) All criteria met</p> <p>Note: The surrogate recovery of decachlorobiphenyl in the LCS associated with the oil samples was below criteria. The recovery of the second surrogate was acceptable as well as the LCS recoveries. The data are usable for project objectives.</p> <p>() Recoveries and/or RPDs outside criteria for some analytes as described below; some bias may be present:</p> <p>() Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>Calibrations:</u> (X) Data not provided; not assessed.</p> <p>() All criteria met</p> <p>() Minimum response factor/correlation coefficient, %RPD, %recovery, and/or %D outside criteria for some compounds as described below; some bias may be present.</p> <p>() Minimum response factors do not meet criteria; the following data rejected:</p> <p><u>MS/MSD:</u> () Site-specific MS/MSD performed; see Field Data Usability discussion (X) Site-specific MS/MSD not requested</p>
<p>Discuss performance criteria and data quality indicators utilized to assess overall <u>Field Data Usability</u> (sample preservation compliance, sample sub sampling/compositing, etc.)</p>	<p>(X) Sampling procedures as performed and sample containers used met all requirements and performance standards without qualification.</p> <p>() Variances from requirements and performance standards for sampling procedures or containers occurred. Discuss data usability implications here.</p> <p>(X) Sample preservation requirements and holding times met all requirements and performance standards without qualification.</p> <p>() Variances from requirements occurred. Discuss data usability implications here or reference where discussed elsewhere (e.g., under Rejections).</p>

Data Usability Assessment

Field QC Sample Evaluation

Field Duplicate RPDs:

Field duplicates not collected for this site.
 RPD met criteria (that is, were $\leq 50\%$ for soil and $\leq 30\%$ for aqueous for detected analytes under the following circumstances):

Organics: both analytes detected at greater than 5x the RL

RPD exceeded limits for the following analytes:

- All detections in both samples are well below applicable criteria; precision is acceptable for site decision-making:
- Detections in samples are near applicable criteria; precision is not acceptable for site decision-making:

Site-Specific MS/MSD:

- None collected
- Collected and recoveries/RPDs within criteria
- Collected; poor precision and/or accuracy noted in case narrative for some analytes indicates potential bias, as follows:
- Collected; poor recoveries require data rejection as discussed in Section on Rejections.

Trip Blanks:

- None collected
- Collected, no detections
- The following analytes were detected in one or more blanks and also in field samples. Data validation under National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Equipment Blanks:

- None collected
- Collected, no detections
- The following analytes were detected in one or more blanks and also in field samples. Data validation under National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Data Usability Assessment

Discuss any data rejected pursuant to USEPA NFG.

Provide **Technical Justification** if data rejections are applied to results that may meet USEPA NFG, but are still rejected based on professional judgment.

Provide **Technical Justification** if data are judged usable based on professional judgment, despite failure of USEPA NFG.

(X) No data rejected pursuant to USEPA National Functional Guidelines (NFG)

() Rejections are recommended based on the following USEPA National Functional Guidelines criteria:

() Some rejection decisions were made that are not fully in accordance with USEPA National Functional Guidelines. Affected samples/analytes and Technical Justification follow:

Summarize analytical data usability for this Sample Delivery Group.	<p>() All data are usable for project objectives. No potential for bias is indicated.</p> <p>(X) Data are usable for project objectives, with limitations as noted below:</p> <p><u>Sensitivity – Comparison to Standards:</u></p> <ul style="list-style-type: none">() Non-detects for the following analytes are not usable for direct comparison to applicable WDNR criteria, because reporting limits in one or more field samples exceeded criteria, and the analytes are Analytes of Interest for this site: <p><u>Sensitivity – Blank Contamination</u></p> <ul style="list-style-type: none">() The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <p><u>Accuracy/Bias:</u></p> <ul style="list-style-type: none">(X) Bias is likely for the following Analytes of Interest and samples, based on surrogate recoveries outside criteria: <p>Since there was no surrogate recovery due to sample dilution, the PCB results in samples 1st Floor Transformer – Drum 1, 2nd Floor Transformer – Drum 1, and Dock Doors #6 & #7 – Storm Drain may be biased; the direction of bias is not known.</p> <ul style="list-style-type: none">() Bias is likely for the following Analytes of Interest and samples, based on calibrations outside criteria:() Bias is likely for the following Analytes of Interest in all samples, based on MS/MSD, LCS/LCSD, and/or LFB recoveries outside criteria:() Bias is likely for the following Analytes of Interest, based on interference check standard analysis:() Bias is likely for the following Analytes of Interest, based on holding time criteria: <p><u>Precision:</u></p> <ul style="list-style-type: none">() Precision does not meet RPD criteria for the following Analytes of Interest, based on review of field duplicate results:() Precision does not meet % Difference criteria for the following
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	<p>Analytes of Interest, based on review of serial dilution results:</p> <p>() Data for the following Analytes of Interest in the following samples are not usable because results were rejected due to limitations identified in the quality control review:</p>
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REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS

Purpose: To determine if data are unusable for supporting environmental investigation and remediation due to gross failure of quality control.

References:

USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organics Methods Data Review, June 2008

USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004

Definition of Rejected Data: The data are unusable (analyte/compound may or may not be present) due to gross failure of quality control criteria and cannot be used to support project objectives.

Inorganic Criteria for Rejection of Data: Applicable to metals, hexavalent chromium, cyanide, and other inorganic parameters.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries:
 - Aqueous samples only: recovery < 50%: reject all results for affected analyte (professional judgment commonly used if LCS < 50% but MS shows acceptable recovery to determine result as usable; professional judgment may be used to reject non-detected results only)
 - Soil: solid LCS or Standard Reference Material recoveries compared to vendor control limits: use professional judgment on rejection of data
- Matrix Spike (MS) Recovery: recovery < 30%: reject non-detected results for affected analyte in all associated samples in batch (up to 20 associated samples). Exception: Low recovery of hexavalent chromium in soils may be acceptable if supported by pH and ORP data which demonstrate reducing conditions
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

Organic Criteria for Rejection of Data Applicable to VOCs, SVOCs, ETPH, Pesticides, PCBs, and herbicides, and can also be applied to VPH/EPH.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Sample Preservation (VOCs only): Soil/sediment samples without methanol or water (alternative for low level VOCs only) preservation: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound
- Surrogate Recovery: recovery < 10%: reject associated non-detected results (see RCP method for compounds associated with surrogate by class), except if low recovery is due to necessary analytical dilution(s)

- Matrix Spike/Matrix Spike Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound in unspiked field sample only (i.e., field sample used for MS/MSD only)
- Calibrations: RRF < 0.05 (with no technical justification for RRF being lower): reject non-detected results for affected compound in all associated samples
- Internal Standards: Area Counts < 20% of associated Calibration Standard: reject associated non-detected results, depending on which compounds are quantitated with the affected internal standard
- Dual Column Precision: %D > 100% for single-component pesticides and herbicides: reject positive and non-detected results; % D > 500% for multicomponent pesticides and Aroclors: reject positive and non-detected results
- Endrin/DDT Breakdown: Breakdown >20%: reject non-detected results for endrin or DDT, whichever is affected
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

**DATA QA/QC DOCUMENTATION WORKSHEET:
ANALYTICAL DATA USABILITY ASSESSMENT**

DATE: January 6, 2011
PROJECT: Former Mirro Plant, Manitowoc, WI, Targeted Brownfield Assessment
LABORATORY (name and location): TestAmerica, Watertown, WI
SAMPLING DATE(S): October 29, 2010
SDG: WTK0161

ANALYSES AND ANALYTICAL METHODS:

Matrix	Analysis	Prep Method	Analytical Method
Aqueous	Volatile Organic Compounds (VOCs)	SW-846, 5030B	SW-846, 8260B
Soil	Volatile Organic Compounds (VOCs)	SW-846, 5035B	SW-846, 8260B
Soil	Polynuclear Aromatic Hydrocarbons (PAHs)	SW-846, 8310	SW-846, 8310
Soil	Metals	SW-846, 3050B/7471A	SW-846, 6010B/7471A
Soil	Polychlorinated Biphenyls (PCBs)	SW-846, 3550B	SW-846, 8082

SAMPLES AND PARAMETERS:

Sample	Matrix	VOC	PAH	Metals	PCB
MB-SB-TW-5@2-4'	Soil	X	X	X	X
MB-SB-2@2-3.5'	Soil	X		X	X
MB-SB-1@2-4'	Soil	X	X	X	X
MB-SB-1@2-4' DUP	Soil				X
Equipment Blank	AQ	X	X	X	X

PROJECT OBJECTIVES: Soil analytical data were generated as part of a Targeted Brownfields Assessment of the former Mirro Plant No. 9 site, located at 1512 Washington Street in Manitowoc, Wisconsin. The data will be used to provide information on the nature and extent of elevated VOCs, PAHs, and metals in soil, oil, and groundwater and to identify whether other contaminants may be present. The data will be used to enhance the existing limited subsurface information in order to support remedial design and closure, to delineate extent of soil and groundwater contamination previously documented, and to prepare an Analysis of Brownfield Cleanup Alternative.

ANALYTES OF INTEREST/SITE HISTORY: VOCs, SVOCs, and metals. Specifically the following compounds have been detected or exceeded WDNR standards:

- Aluminum (soil)
- Selenium (soil)
- Chloromethane (soil)
- Naphthalene (soil)
- Tetrachloroethene (PCE) (soil)
- Aroclor 1260 (PCB) (soil)
- Chrysene (groundwater)
- Cis-1,2-dichloroethene (groundwater)

Benzo(b)fluoranthene (soil and groundwater)
Trichloroethylene (TCE) (soil and groundwater)
Benzene (soil and groundwater)

PROJECT ACTION LEVELS: Wisconsin Department of Natural Resources (WDNR) RCLs.

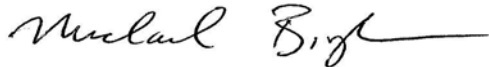
Data Reviewer: Kristin Rutherford



January 10, 2011

(signature, date)

Project Manager: Mike Bingham



January 10, 2011

(signature, date)

<u>Data Usability Assessment</u>	
<p>List all activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment. Include the media sampled and the month and year the data were acquired.</p>	<p><input checked="" type="checkbox"/> (X) Listed below (for this SDG only).</p> <p>Activity: Sampling under a Targeted Brownfield Assessment. Media: Soils Sampling Month and Year: October 2010</p> <p><input type="checkbox"/> () Attached separately</p>
<p>Discuss appropriateness of selected analytical methods to quantitatively support the site investigation (exclusive of sensitivity).</p>	<p>USEPA SW-846 analytical methods used were appropriate and data is usable for project objectives.</p>
<p>Discuss appropriateness of selected analytical methods' Reporting Limits (RL) with respect to WDNR criteria.</p>	<p><input type="checkbox"/> () All Reporting Limits were at or below applicable criteria in all samples.</p> <p><input type="checkbox"/> () Reporting Limits were above applicable WDNR criteria for certain analytes in certain samples, due to sample dilution because of elevated concentrations of other target analytes, non-target analytes, or matrix interferences. See attached table:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> () This limitation is significant for the following analytes and samples: <p><input type="checkbox"/> () Reporting limits were above applicable WDNR criteria for the following analytes that are acknowledged Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.

Data Usability Assessment

	<p>(X) Reporting limits were above applicable WDNR criteria for the following samples and analytes, unrelated to dilution and exclusive of Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - (X) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. <p>VOCs: 1,2,3-trichloropropane and 1,2-dibromo-3-chloropropane in all soil samples</p> <p>VOCs: vinyl chloride in samples MB-SB-2@2-3.5' and MB-SB-1@2-4'</p> <p>VOCs: 1,2-dibromo-3-chloropropane and 1,2-dibromoethane in the aqueous Equipment Blank</p> <p>PCBs: All PCB Aroclors in the aqueous Equipment Blank</p> <p>Metals: iron and manganese in the aqueous Equipment Blank</p> <ul style="list-style-type: none"> - () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.
<p>Discuss laboratory performance criteria and data quality indicators utilized to assess overall <u>Analytical Accuracy</u> (continuing calibration, laboratory control spikes, etc.) and <u>Analytical Precision</u> (laboratory duplicates, laboratory control spike duplicates, etc.).</p>	<p>() Met all requirements and performance standards without qualification.</p> <p>(X) Did not meet all requirements and performance standards.</p> <p><u>Surrogate Recoveries:</u> (X) All criteria met</p> <p>() Recoveries for some samples and analytes were outside criteria, leading to potential bias in results as summarized below:</p> <p>() Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>Method Blanks:</u> () No detections in blanks</p> <p>() The following analytes were detected in one or more blanks, but concentrations are well below Project Action Levels, and/or analytes were not detected in associated field samples:</p>

Data Usability Assessment

(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines (NFG) may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Metals: Antimony, calcium, and thallium were detected in the method blank associated with samples MB-SB-TW-5@2-4', MB-SB-2@2-3.5', and MB-SB-1@2-4' at levels greater than the method reporting limit. The results for antimony in samples MB-SB-TW-5@2-4', MB-SB-2@2-3.5', and MB-SB-1@2-4'; and for thallium in sample MB-SB-2@2-3.5' may be biased high. The results for thallium in samples MB-SB-TW-5@2-4' and MB-SB-1@2-4' are nondetect; therefore, the results are usable for project objectives. Since the results for calcium in the associated samples are greater than 10X the blank contamination, the results are usable for project objectives.

Laboratory Control Spikes/LCSD:

(X) All criteria met

() Recoveries and/or RPDs outside criteria for some analytes as described below; some bias may be present:

() Poor recoveries led to some data rejection; see Section on Rejections.

Internal Standards:

(X) Data not provided

() All criteria met

() Recoveries and/or retention times outside criteria for some analytes as described below; some bias may be present:

() Poor recoveries led to some data rejection; see Section on Rejections.

GC/MS Tunes:

(X) Data not provided

() All criteria met

() Analysis time and/or tune criteria not met as described below:

Calibrations:

(X) Data not provided

() All criteria met

() Minimum response factor/correlation coefficient, %RPD, %recovery, and/or %D outside criteria for some compounds as described below; some bias may be present.

() Minimum response factors do not meet criteria; the following data rejected:

Data Usability Assessment

	<p><u>Interference Check Standard (metals only):</u> <input checked="" type="checkbox"/> Data not provided <input type="checkbox"/> All criteria met <input type="checkbox"/> Recoveries outside limits in ICSA and/or ICSAB</p> <p><u>MS/MSD:</u> <input checked="" type="checkbox"/> Site-specific MS/MSD performed; see Field Data Usability discussion <input type="checkbox"/> Site-specific MS/MSD not requested</p>
<p>Discuss performance criteria and data quality indicators utilized to assess overall <u>Field Data Usability</u> (sample preservation compliance, sample sub sampling/compositing, etc.)</p>	<p><input checked="" type="checkbox"/> Sampling procedures as performed and sample containers used met all requirements and performance standards without qualification.</p> <p><input type="checkbox"/> Variances from requirements and performance standards for sampling procedures or containers occurred. Discuss data usability implications here.</p> <p><input checked="" type="checkbox"/> Sample preservation requirements and holding times met all requirements and performance standards without qualification.</p> <p><input type="checkbox"/> Variances from requirements occurred. Discuss data usability implications here or reference where discussed elsewhere (e.g., under Rejections).</p> <p><u>Field QC Sample Evaluation</u></p> <p><u>Field Duplicate RPDs:</u> <input type="checkbox"/> Field duplicates not collected for this site.</p> <p><input checked="" type="checkbox"/> RPD met criteria (that is, were $\leq 50\%$ for soil and $\leq 30\%$ for aqueous for detected analytes under the following circumstances):</p> <p style="padding-left: 40px;">Inorganics: both analytes detected at greater than 2x the RL Organics: both analytes detected at greater than 4x the RL</p> <p>Field Duplicates MB-SB-1@2-4' and MB-SB-1@2-4' DUP were collected for PCB analysis from this site. The results for PCBs in both samples were nondetect; therefore, precision could not be assessed.</p> <p><input type="checkbox"/> RPD exceeded limits for the following analytes:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> All detections in both samples are well below applicable criteria; precision is acceptable for site decision-making: - <input type="checkbox"/> Detections in samples are near applicable criteria; precision is not acceptable for site decision-making:

Data Usability Assessment

Site-Specific MS/MSD:

None collected

Collected and recoveries/RPDs within criteria

Recoveries and RPDs within criteria for VOCs, PAHs, PCBs, and mercury.

Sample used for matrix spike analysis 6010B metals analysis was not from this site; therefore, MS/MSD data not assessed for this analysis.

Collected; poor precision and/or accuracy noted in case narrative for some analytes indicates potential bias, as follows:

Collected; poor recoveries require data rejection as discussed in Section on Rejections.

Sample Duplicate

Data not provided

Laboratory duplicate analyzed and percent difference is within criteria.

Laboratory duplicates analyzed and percent difference is outside criteria indicating potential bias.

Serial Dilution

Data not provided

Serial dilution criteria met.

Serial dilution analyzed; poor precision noted for some analytes indicates possible matrix interference:

Trip Blanks:

None collected

Collected, no detections

The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Equipment Blanks:

None collected

Collected, no detections

The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Data Usability Assessment

VOCs:

Toluene was detected in the equipment blank associated with these samples at levels greater than the method detection limit but below the reporting limit. Since the results for the associated samples are nondetect, the data are usable for site decision-making.

PCBs:

PCB 1260 was detected in the equipment blank associated with these samples at levels greater than the method detection limit but below the reporting limit. Since the results for PCB 1260 in the associated samples are nondetect, the data are usable for site decision-making.

Metals:

Calcium, copper, lead and zinc were detected in the equipment blank associated with these samples at levels greater than the method detection limit but less than the reporting limit. Barium was detected in the equipment blank at a level greater than the reporting limit. Since the results for barium, calcium, copper, lead, and zinc in samples MB-SB-TW-5@2-4', MB-SB-2@2-3.5', and MB-SB-1@2-4' are more than 10X the contamination in the equipment blank and are well below the RCLs, data are usable for site decision-making.

Data Usability Assessment

Discuss any data rejected pursuant to USEPA NFG.

Provide **Technical Justification** if data rejections are applied to results that may meet USEPA NFG, but are still rejected based on professional judgment.

Provide **Technical Justification** if data are judged usable based on professional judgment, despite failure of USEPA NFG.

(X) No data rejected pursuant to USEPA National Functional Guidelines (NFG)

() Rejections are recommended based on the following USEPA National Functional Guidelines criteria:

() Some rejection decisions were made that are not fully in accordance with USEPA National Functional Guidelines. Affected samples/analytes and Technical Justification follow:

<p>Summarize analytical data usability for this Sample Delivery Group.</p>	<p>() All data are usable for project objectives. No potential for bias is indicated.</p> <p>(X) Data are usable for project objectives, with limitations as noted below:</p> <p><u>Sensitivity – Comparison to Standards:</u></p> <ul style="list-style-type: none">(X) Non-detects for the following analytes are not usable for direct comparison to applicable WDNR criteria, because reporting limits in one or more field samples exceeded criteria, and the analytes are Analytes of Interest for this site: <p>VOCs: 1,2,3-trichloropropane and 1,2-dibromo-3-chloropropane in all soil samples</p> <p>VOCs: vinyl chloride in samples MB-SB-2@2-3.5' and MB-SB-1@2-4'</p> <p>VOCs: 1,2-dibromo-3-chloropropane and 1,2-dibromoethane in the aqueous Equipment Blank</p> <p>PCBs: All PCB Aroclors in the aqueous Equipment Blank</p> <p>Metals: iron and manganese in the aqueous Equipment Blank</p> <p><u>Sensitivity – Blank Contamination</u></p> <ul style="list-style-type: none">(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA NFG may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <p>Metals: The results for antimony in samples MB-SB-TW-5@2-4', MB-SB-2@2-3.5', and MB-SB-1@2-4' may be biased high.</p> <p>The results for thallium in sample MB-SB-2@2-3.5' may be biased high.</p> <p>The results for barium, copper, lead, and zinc in samples MB-SB-TW-5@2-4', MB-SB-2@2-3.5', and MB-SB-1@2-4' may be biased high.</p> <p><u>Accuracy/Bias:</u></p> <ul style="list-style-type: none">() Bias is likely for the following Analytes of Interest and samples, based on surrogate recoveries outside criteria:
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	<ul style="list-style-type: none">- () Bias is likely for the following Analytes of Interest and samples, based on calibrations outside criteria: - () Bias is likely for the following Analytes of Interest in all samples, based on MS/MSD, LCS/LCSD, and/or LFB recoveries outside criteria: - () Bias is likely for the following Analytes of Interest, based on interference check standard analysis: - () Bias is likely for the following Analytes of Interest, based on holding time criteria: <p><u>Precision:</u></p> <ul style="list-style-type: none">- () Precision does not meet RPD criteria for the following Analytes of Interest, based on review of field duplicate results: - () Precision does not meet % Difference criteria for the following Analytes of Interest, based on review of serial dilution results: <p>() Data for the following Analytes of Interest in the following samples are not usable because results were rejected due to limitations identified in the quality control review:</p>
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REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS

Purpose: To determine if data are unusable for supporting environmental investigation and remediation due to gross failure of quality control.

References:

USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organics Methods Data Review, June 2008

USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004

Definition of Rejected Data: The data are unusable (analyte/compound may or may not be present) due to gross failure of quality control criteria and cannot be used to support project objectives.

Inorganic Criteria for Rejection of Data: Applicable to metals, hexavalent chromium, cyanide, and other inorganic parameters.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries:
 - Aqueous samples only: recovery < 50%: reject all results for affected analyte (professional judgment commonly used if LCS < 50% but MS shows acceptable recovery to determine result as usable; professional judgment may be used to reject non-detected results only)
 - Soil: solid LCS or Standard Reference Material recoveries compared to vendor control limits: use professional judgment on rejection of data
- Matrix Spike (MS) Recovery: recovery < 30%: reject non-detected results for affected analyte in all associated samples in batch (up to 20 associated samples). Exception: Low recovery of hexavalent chromium in soils may be acceptable if supported by pH and ORP data which demonstrate reducing conditions
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

Organic Criteria for Rejection of Data Applicable to VOCs, SVOCs, ETPH, Pesticides, PCBs, and herbicides, and can also be applied to VPH/EPH.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Sample Preservation (VOCs only): Soil/sediment samples without methanol or water (alternative for low level VOCs only) preservation: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound
- Surrogate Recovery: recovery < 10%: reject associated non-detected results (see RCP method for compounds associated with surrogate by class), except if low recovery is due to necessary analytical dilution(s)

- Matrix Spike/Matrix Spike Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound in unspiked field sample only (i.e., field sample used for MS/MSD only)
- Calibrations: RRF < 0.05 (with no technical justification for RRF being lower): reject non-detected results for affected compound in all associated samples
- Internal Standards: Area Counts < 20% of associated Calibration Standard: reject associated non-detected results, depending on which compounds are quantitated with the affected internal standard
- Dual Column Precision: %D > 100% for single-component pesticides and herbicides: reject positive and non-detected results; % D > 500% for multicomponent pesticides and Aroclors: reject positive and non-detected results
- Endrin/DDT Breakdown: Breakdown >20%: reject non-detected results for endrin or DDT, whichever is affected
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

**DATA QA/QC DOCUMENTATION WORKSHEET:
ANALYTICAL DATA USABILITY ASSESSMENT**

DATE: January 6, 2011
PROJECT: Former Mirro Plant, Manitowoc, WI, Targeted Brownfield Assessment
LABORATORY (name and location): TestAmerica, Watertown, WI
SAMPLING DATE(S): October 28, 2010
SDG: WTK0162

ANALYSES AND ANALYTICAL METHODS:

Matrix	Analysis	Prep Method	Analytical Method
Soil	Volatile Organic Compounds (VOCs)	SW-846, 5035B	SW-846, 8260B
Soil	Polynuclear Aromatic Hydrocarbons (PAHs)	SW-846, 8310	SW-846, 8310
Soil	Metals	SW-846, 3050B/7471A	SW-846, 6010B/7471A
Soil	Polychlorinated Biphenyls (PCBs)	SW-846, 3550B	SW-846, 8082

SAMPLES AND PARAMETERS:

Sample	Matrix	VOC	PAH	Metals	PCB
MB-SB-12@2.5-4' DUP	Soil	X			
MB-SB-12@2.5-4'	Soil			X	
MB-SB-12@5-7'	Soil	X		X	
MB-SB-MW-19@2-4'	Soil	X		X	
MB-SB-MW-19@2-4' DUP	Soil			X	
MB-SB-MW-19@5.5-8'	Soil	X		X	
MB-SB-MW-19@5.5-8' DUP	Soil	X			
MB-SB-13@1.5-2'	Soil	X		X	X
MB-SB-14@2.5-4'	Soil	X		X	
MB-SB-14@6-7.5'	Soil	X			
MB-SB-15@2-4'	Soil	X		X	
MB-SB-15@5.6-6'	Soil	X			
MB-SB-8@6.5-8'	Soil	X	X		
MB-SB-8@6.5-8' DUP	Soil		X		
MB-SB-8@9.5-12'	Soil	X			

PROJECT OBJECTIVES: Soil analytical data were generated as part of a Targeted Brownfields Assessment of the former Mirro Plant No. 9 site, located at 1512 Washington Street in Manitowoc, Wisconsin. The data will be used to provide information on the nature and extent of elevated VOCs, PAHs, and metals in soil, oil, and groundwater and to identify whether other contaminants may be present. The data will be used to enhance the existing limited subsurface information in order to support remedial design and closure, to delineate extent of soil and groundwater contamination previously documented, and to prepare an Analysis of Brownfield Cleanup Alternative.

ANALYTES OF INTEREST/SITE HISTORY: VOCs, SVOCs, and metals. Specifically the following compounds have been detected or exceeded WDNR standards:

- Aluminum (soil)
- Selenium (soil)
- Chloromethane (soil)
- Naphthalene (soil)
- Tetrachloroethene (PCE) (soil)
- Aroclor 1260 (PCB) (soil)
- Chrysene (groundwater)
- Cis-1,2-dichloroethene (groundwater)
- Benzo(b)fluoranthene (soil and groundwater)
- Trichloroethylene (TCE) (soil and groundwater)
- Benzene (soil and groundwater)

PROJECT ACTION LEVELS: Wisconsin Department of Natural Resources (WDNR) RCLs.

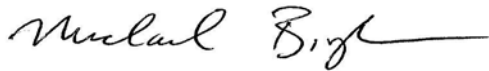
Data Reviewer: Kristin Rutherford



January 10, 2011

(signature, date)

Project Manager: Mike Bingham



January 10, 2011

(signature, date)

<u>Data Usability Assessment</u>	
<p>List all activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment. Include the media sampled and the month and year the data were acquired.</p>	<p><input checked="" type="checkbox"/> (X) Listed below (for this SDG only).</p> <p>Activity: Sampling under a Targeted Brownfield Assessment. Media: Soils Sampling Month and Year: October 2010</p> <p><input type="checkbox"/> () Attached separately</p>
<p>Discuss appropriateness of selected analytical methods to quantitatively support the site investigation (exclusive of sensitivity).</p>	<p>USEPA SW-846 analytical methods used were appropriate and data is usable for project objectives.</p>
<p>Discuss appropriateness of selected analytical methods' Reporting Limits (RL) with respect to WDNR criteria.</p>	<p><input type="checkbox"/> () All Reporting Limits were at or below applicable criteria in all samples.</p> <p><input type="checkbox"/> () Reporting Limits were above applicable WDNR criteria for certain analytes in certain samples, due to sample dilution because of elevated concentrations of other target analytes, non-target analytes, or matrix interferences. See attached table:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> () This limitation is significant for the following analytes and samples: <p><input type="checkbox"/> () Reporting limits were above applicable WDNR criteria for the following analytes that are acknowledged Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.

Data Usability Assessment

	<p>(X) Reporting limits were above applicable WDNR criteria for the following samples and analytes, unrelated to dilution and exclusive of Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - (X) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. <p>VOCs: 1,2,3-trichloropropane and 1,2-dibromo-3-chloropropane in all soil samples</p> <p>VOCs: vinyl chloride in samples MB-SB-12@5-7', MB-SB-MW-19@2-4', MB-SB-13@1.5-2', MB-SB-14@2.5-4', MB-SB-15@2-4', MB-SB-15@5.6-6', and MB-SB-8@6.5-8'</p> <p>Metals: arsenic in sample MB-SB-12@5-7'</p> <p>() This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.</p>
<p>Discuss laboratory performance criteria and data quality indicators utilized to assess overall <u>Analytical Accuracy</u> (continuing calibration, laboratory control spikes, etc.) and <u>Analytical Precision</u> (laboratory duplicates, laboratory control spike duplicates, etc.).</p>	<p>() Met all requirements and performance standards without qualification. (X) Did not meet all requirements and performance standards.</p> <p><u>Surrogate Recoveries:</u> (X) All criteria met</p> <p>() Recoveries for some samples and analytes were outside criteria, leading to potential bias in results as summarized below:</p> <p>() Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>Method Blanks:</u> () No detections in blanks</p> <p>() The following analytes were detected in one or more blanks, but concentrations are well below Project Action Levels, and/or analytes were not detected in associated field samples:</p> <p>(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines (NFG) may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:</p>

Data Usability Assessment

Metals: Antimony, calcium, and thallium were detected in the method blank associated with samples MB-SB-12@2.5-4', MB-SB-12@5-7', MB-SB-MW-19@2-4', MB-SB-MW-19@2-4' DUP, MB-SB-MW-19@5.5-8', MB-SB-13@1.5-2', MB-SB-14@2.5-4', and MB-SB-15@2-4' at levels greater than the method reporting limit. The results for antimony in samples MB-SB-12@2.5-4', MB-SB-MW-19@2-4', MB-SB-MW-19@2-4' DUP, MB-SB-MW-19@5.5-8', MB-SB-13@1.5-2', MB-SB-14@2.5-4', and MB-SB-15@2-4'; for thallium in samples MB-SB-12@5-7', MB-SB-MW-19@2-4' DUP, MB-SB-13@1.5-2', MB-SB-14@2.5-4', and MB-SB-15@2-4' may be biased high.

The results for antimony and thallium in the other samples are nondetect; therefore, the results are usable for project objectives.

Since the results for calcium in the associated samples are greater than 10X the blank contamination, the results are usable for project objectives.

Laboratory Control Spikes/LCSD:

(X) All criteria met

() Recoveries and/or RPDs outside criteria for some analytes as described below; some bias may be present:

() Poor recoveries led to some data rejection; see Section on Rejections.

Internal Standards:

(X) Data not provided

() All criteria met

() Recoveries and/or retention times outside criteria for some analytes as described below; some bias may be present:

() Poor recoveries led to some data rejection; see Section on Rejections.

GC/MS Tunes:

(X) Data not provided

() All criteria met

() Analysis time and/or tune criteria not met as described below:

Calibrations:

(X) Data not provided

() All criteria met

() Minimum response factor/correlation coefficient, %RPD, %recovery, and/or %D outside criteria for some compounds as described below; some bias may be present.

() Minimum response factors do not meet criteria; the following data rejected:

Data Usability Assessment

	<p><u>Interference Check Standard (metals only):</u> (X) Data not provided () All criteria met () Recoveries outside limits in ICSA and/or ICSAB</p> <p><u>MS/MSD:</u> (X) Site-specific MS/MSD performed; see Field Data Usability discussion () Site-specific MS/MSD not requested</p>
<p>Discuss performance criteria and data quality indicators utilized to assess overall <u>Field Data Usability</u> (sample preservation compliance, sample sub sampling/compositing, etc.)</p>	<p>(X) Sampling procedures as performed and sample containers used met all requirements and performance standards without qualification.</p> <p>() Variances from requirements and performance standards for sampling procedures or containers occurred. Discuss data usability implications here.</p> <p>(X) Sample preservation requirements and holding times met all requirements and performance standards without qualification.</p> <p>() Variances from requirements occurred. Discuss data usability implications here or reference where discussed elsewhere (e.g., under Rejections).</p> <p><u>Field QC Sample Evaluation</u></p> <p><u>Field Duplicate RPDs:</u> () Field duplicates not collected for this site.</p> <p>(X) RPD met criteria (that is, were $\leq 50\%$ for soil and $\leq 30\%$ for aqueous for detected analytes under the following circumstances):</p> <p style="padding-left: 40px;">Inorganics: both analytes detected at greater than 2x the RL Organics: both analytes detected at greater than 4x the RL</p> <p>VOCs: Field duplicate samples MB-SB-MW-19@5.5-8' and MB-SB-MW-19@5.5-8' DUP were collected for VOC analysis from this site. The results for VOCs in both samples were nondetect; therefore, precision could not be assessed.</p> <p>(X) RPD exceeded limits for the following analytes:</p> <p style="padding-left: 40px;">– (X) All detections in both samples are well below applicable criteria; precision is acceptable for site decision-making:</p> <p>Metals: The RPD exceeded limits for antimony, cadmium, copper, nickel, selenium, silver, and thallium in field duplicates MB-SB-MW-19@2-4' and MB-SB-</p>

Data Usability Assessment

MW-19@2-4' DUP. Since the sample results were well below RCLs, precision is acceptable for site decision-making.

- (X) Detections in samples are near applicable criteria; precision is not acceptable for site decision-making:

PAHs:

The RPD exceeded limits for dibenzo(a,h)anthracene in field duplicate samples MB-SB-8@6.5-8' and MB-SB-8@6.5-8' DUP. Since the results are greater than the project RCL, precision is not acceptable for site decision-making.

Site-Specific MS/MSD:

() None collected

(X) Collected and recoveries/RPDs within criteria

Recoveries and RPDs within criteria for VOCs, PAHs, PCBs, and mercury.

Matrix spike analysis for 6010B metals analysis was not included in this SDG.

() Collected; poor precision and/or accuracy noted in case narrative for some analytes indicates potential bias, as follows:

() Collected; poor recoveries require data rejection as discussed in Section on Rejections.

Sample Duplicate

(X) Data not provided

() Laboratory duplicate analyzed and percent difference is within criteria.

() Laboratory duplicates analyzed and percent difference is outside criteria indicating potential bias.

Serial Dilution

(X) Data not provided

(X) Serial dilution criteria met.

() Serial dilution analyzed; poor precision noted for some analytes indicates possible matrix interference:

Trip Blanks:

(X) None collected

() Collected, no detections

() The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Data Usability Assessment

Equipment Blanks:

- () None collected
- () Collected, no detections
- (X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

An equipment blank associated with the soil samples in this SDG was collected and reported in SDG WTK0161:

VOCs:

Toluene was detected in the equipment blank associated with these samples at levels greater than the method detection limit but below the reporting limit. Based on NFG, since the results for toluene in samples MB-SB-MW-19@2-4' and MB-SB-14@2.5-4' are greater than the reporting limit, the data are usable for site decision-making.

PCBs:

PCB 1260 was detected in the equipment blank associated with these samples at levels greater than the method detection limit but below the reporting limit. Since the associated samples are nondetect, the results are usable for site decision-making.

Metals:

Calcium, copper, lead and zinc were detected in the equipment blank associated with these samples at levels greater than the method detection limit but less than the reporting limit. Barium was detected in the equipment blank at a level greater than the reporting limit. Since the results for barium, calcium, copper, lead, and zinc in samples MB-SB-12@2.5-4', MB-SB-12@5-7', MB-SB-MW-19@2-4', MB-SB-MW-19@2-4' DUP, MB-SB-MW-19@5.5-8', MB-SB-13@1.5-2', MB-SB-14@2.5-4', and MB-SB-15@2-4' are more than 10X the contamination in the equipment blank and are well below the RCLs, data are usable for site decision-making.

Data Usability Assessment

Discuss any data rejected pursuant to USEPA NFG.

Provide **Technical Justification** if data rejections are applied to results that may meet USEPA NFG, but are still rejected based on professional judgment.

Provide **Technical Justification** if data are judged usable based on professional judgment, despite failure of USEPA NFG.

No data rejected pursuant to USEPA National Functional Guidelines (NFG)

Rejections are recommended based on the following USEPA National Functional Guidelines criteria:

Some rejection decisions were made that are not fully in accordance with USEPA National Functional Guidelines. Affected samples/analytes and Technical Justification follow:

Summarize analytical data usability for this Sample Delivery Group.	<p>() All data are usable for project objectives. No potential for bias is indicated.</p> <p>(X) Data are usable for project objectives, with limitations as noted below:</p> <p><u>Sensitivity – Comparison to Standards:</u></p> <ul style="list-style-type: none">(X) Non-detects for the following analytes are not usable for direct comparison to applicable WDNR criteria, because reporting limits in one or more field samples exceeded criteria, and the analytes are Analytes of Interest for this site: <p>VOCs: 1,2,3-trichloropropane and 1,2-dibromo-3-chloropropane in all soil samples</p> <p>VOCs: vinyl chloride in samples MB-SB-12@5-7', MB-SB-MW-19@2-4', MB-SB-13@1.5-2', MB-SB-14@2.5-4', MB-SB-15@2-4', MB-SB-15@5.6-6', and MB-SB-8@6.5-8'</p> <p>Metals: arsenic in sample MB-SB-12@5-7'</p> <p><u>Sensitivity – Blank Contamination</u></p> <ul style="list-style-type: none">(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA NFG may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <p>Metals: The results for antimony in samples MB-SB-12@2.5-4', MB-SB-MW-19@2-4', MB-SB-MW-19@2-4' DUP, MB-SB-MW-19@5.5-8', MB-SB-13@1.5-2', MB-SB-14@2.5-4', and MB-SB-15@2-4' may be biased high.</p> <p>The results for thallium in samples MB-SB-12@5-7', MB-SB-MW-19@2-4' DUP, MB-SB-13@1.5-2', MB-SB-14@2.5-4', and MB-SB-15@2-4' may be biased high.</p> <p><u>Accuracy/Bias:</u></p> <ul style="list-style-type: none">() Bias is likely for the following Analytes of Interest and samples, based on surrogate recoveries outside criteria:() Bias is likely for the following Analytes of Interest and samples, based on calibrations outside criteria:() Bias is likely for the following Analytes of Interest in all samples, based on MS/MSD, LCS/LCSD, and/or LFB recoveries outside criteria:
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	<ul style="list-style-type: none">- () Bias is likely for the following Analytes of Interest, based on interference check standard analysis: - () Bias is likely for the following Analytes of Interest, based on holding time criteria: <p><u>Precision:</u></p> <ul style="list-style-type: none">- (X) Precision does not meet RPD criteria for the following Analytes of Interest, based on review of field duplicate results: <p>PAHs: dibenzo(a,h)anthracene Metals: antimony, cadmium, copper, nickel, selenium, silver, and thallium</p> <ul style="list-style-type: none">- () Precision does not meet % Difference criteria for the following Analytes of Interest, based on review of serial dilution results: <p>() Data for the following Analytes of Interest in the following samples are not usable because results were rejected due to limitations identified in the quality control review:</p>
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REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS

Purpose: To determine if data are unusable for supporting environmental investigation and remediation due to gross failure of quality control.

References:

USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organics Methods Data Review, June 2008

USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004

Definition of Rejected Data: The data are unusable (analyte/compound may or may not be present) due to gross failure of quality control criteria and cannot be used to support project objectives.

Inorganic Criteria for Rejection of Data: Applicable to metals, hexavalent chromium, cyanide, and other inorganic parameters.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries:
 - Aqueous samples only: recovery < 50%: reject all results for affected analyte (professional judgment commonly used if LCS < 50% but MS shows acceptable recovery to determine result as usable; professional judgment may be used to reject non-detected results only)
 - Soil: solid LCS or Standard Reference Material recoveries compared to vendor control limits: use professional judgment on rejection of data
- Matrix Spike (MS) Recovery: recovery < 30%: reject non-detected results for affected analyte in all associated samples in batch (up to 20 associated samples). Exception: Low recovery of hexavalent chromium in soils may be acceptable if supported by pH and ORP data which demonstrate reducing conditions
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

Organic Criteria for Rejection of Data Applicable to VOCs, SVOCs, ETPH, Pesticides, PCBs, and herbicides, and can also be applied to VPH/EPH.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Sample Preservation (VOCs only): Soil/sediment samples without methanol or water (alternative for low level VOCs only) preservation: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound
- Surrogate Recovery: recovery < 10%: reject associated non-detected results (see RCP method for compounds associated with surrogate by class), except if low recovery is due to necessary analytical dilution(s)

- Matrix Spike/Matrix Spike Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound in unspiked field sample only (i.e., field sample used for MS/MSD only)
- Calibrations: RRF < 0.05 (with no technical justification for RRF being lower): reject non-detected results for affected compound in all associated samples
- Internal Standards: Area Counts < 20% of associated Calibration Standard: reject associated non-detected results, depending on which compounds are quantitated with the affected internal standard
- Dual Column Precision: %D > 100% for single-component pesticides and herbicides: reject positive and non-detected results; % D > 500% for multicomponent pesticides and Aroclors: reject positive and non-detected results
- Endrin/DDT Breakdown: Breakdown >20%: reject non-detected results for endrin or DDT, whichever is affected
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

**DATA QA/QC DOCUMENTATION WORKSHEET:
ANALYTICAL DATA USABILITY ASSESSMENT**

DATE: January 6, 2011
PROJECT: Former Mirro Plant, Manitowoc, WI, Targeted Brownfield Assessment
LABORATORY (name and location): TestAmerica, Watertown, WI
SAMPLING DATE(S): October 26, 27, and 28, 2010
SDG: WTK0163

ANALYSES AND ANALYTICAL METHODS:

Matrix	Analysis	Prep Method	Analytical Method
Soil	Volatile Organic Compounds (VOCs)	SW-846, 5035B	SW-846, 8260B
Soil	Polynuclear Aromatic Hydrocarbons (PAHs)	SW-846, 8310	SW-846, 8310
Soil	Metals	SW-846, 3050B/7471A	SW-846, 6010B/7471A
Soil	Polychlorinated Biphenyls (PCBs)	SW-846, 3550B	SW-846, 8082

SAMPLES AND PARAMETERS:

Sample	Matrix	VOC	PAH	Metals	PCB
MB-SB-3@2-4'	Soil	X	X		
MB-SB-3@9-10'	Soil	X			
MB-SB-4@3.5-4'	Soil	X	X		
MB-SB-4@6.5-8'	Soil	X			
MB-SB-4@11.5-12'	Soil	X			
MB-SB-5@2-4'	Soil	X			
MB-SB-5@9.5-12'	Soil	X			
MB-SB-5@9.5-12' DUP	Soil	X			
MB-SB-5@14-15'	Soil	X			
MB-SB-7@2-4'	Soil	X		X	
MB-SB-7@2-4' DUP	Soil			X	
MB-SB-7@5.5-8'	Soil	X		X	
MB-SB-9@5.5-8'	Soil	X			X
MB-SB-9@5.5-8' DUP	Soil				X
MB-SB-10@3-4'	Soil	X			X
MB-SB-10@5.5-7.5'	Soil	X			X
MB-SB-11@3-4'	Soil	X			X
MB-SB-11@6.5-8'	Soil	X			X
MB-SB-12@2.5-4'	Soil	X			
Trip Blank	Soil	X			

PROJECT OBJECTIVES: Soil analytical data were generated as part of a Targeted Brownfields Assessment of the former Mirro Plant No. 9 site, located at 1512 Washington Street in Manitowoc, Wisconsin. The data will be used to provide information on the nature and extent of elevated VOCs, PAHs, and metals in soil, oil, and groundwater and to identify whether other contaminants may be present. The data will be used to enhance the existing limited subsurface

information in order to support remedial design and closure, to delineate extent of soil and groundwater contamination previously documented, and to prepare an Analysis of Brownfield Cleanup Alternative.

ANALYTES OF INTEREST/SITE HISTORY: VOCs, SVOCs, and metals. Specifically the following compounds have been detected or exceeded WDNR standards:

- Aluminum (soil)
- Selenium (soil)
- Chloromethane (soil)
- Naphthalene (soil)
- Tetrachloroethene (PCE) (soil)
- Aroclor 1260 (PCB) (soil)
- Chrysene (groundwater)
- Cis-1,2-dichloroethene (groundwater)
- Benzo(b)fluoranthene (soil and groundwater)
- Trichloroethylene (TCE) (soil and groundwater)
- Benzene (soil and groundwater)

PROJECT ACTION LEVELS: Wisconsin Department of Natural Resources (WDNR) RCLs.

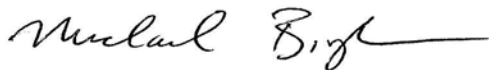
Data Reviewer: Kristin Rutherford



January 10, 2011

(signature, date)

Project Manager: Mike Bingham



January 10, 2011

(signature, date)

<u>Data Usability Assessment</u>	
<p>List all activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment. Include the media sampled and the month and year the data were acquired.</p>	<p><input checked="" type="checkbox"/> Listed below (for this SDG only).</p> <p>Activity: Sampling under a Targeted Brownfield Assessment. Media: Soils Sampling Month and Year: October 2010</p> <p><input type="checkbox"/> Attached separately</p>
<p>Discuss appropriateness of selected analytical methods to quantitatively support the site investigation (exclusive of sensitivity).</p>	<p>USEPA SW-846 analytical methods used were appropriate and data is usable for project objectives.</p>
<p>Discuss appropriateness of selected analytical methods' Reporting Limits (RL) with respect to WDNR criteria.</p>	<p><input type="checkbox"/> All Reporting Limits were at or below applicable criteria in all samples.</p> <p><input type="checkbox"/> Reporting Limits were above applicable WDNR criteria for certain analytes in certain samples, due to sample dilution because of elevated concentrations of other target analytes, non-target analytes, or matrix interferences. See attached table:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> This limitation is significant for the following analytes and samples: <p><input type="checkbox"/> Reporting limits were above applicable WDNR criteria for the following analytes that are acknowledged Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.

Data Usability Assessment

	<p>(X) Reporting limits were above applicable WDNR criteria for the following samples and analytes, unrelated to dilution and exclusive of Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - (X) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <p>VOCs: 1,2,3-trichloropropane and 1,2-dibromo-3-chloropropane in all soil samples</p> <p>VOCs: vinyl chloride in samples MB-SB-3@2-4', MB-SB-4@3.5-4', MB-SB-4@6.5-8', MB-SB-4@11.5-12', MB-SB-5@2-4', MB-SB-5@9.5-12', MB-SB-5@14-15', MB-SB-7@2-4', MB-SB-7@5.5-8', MB-SB-9@5.5-8', MB-SB-11@3-4', and MB-SB-12@2.5-4'</p> <ul style="list-style-type: none"> - () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.
<p>Discuss laboratory performance criteria and data quality indicators utilized to assess overall <u>Analytical Accuracy</u> (continuing calibration, laboratory control spikes, etc.) and <u>Analytical Precision</u> (laboratory duplicates, laboratory control spike duplicates, etc.).</p>	<p>() Met all requirements and performance standards without qualification.</p> <p>(X) Did not meet all requirements and performance standards.</p> <p><u>Surrogate Recoveries:</u> () All criteria met</p> <p>(X) Recoveries for some samples and analytes were outside criteria, leading to potential bias in results as summarized below:</p> <p>PAHs: Due to target compound concentrations, sample MB-SB-3@2-4' required a 5X dilution. As a result, surrogates were not recovered and the extraction efficiency could not be assessed. The results for PAHs may be biased; the direction of bias is not known. Since the associated LCS recoveries were acceptable, professional judgment was used to not reject the data based on surrogate recoveries. The data are usable for project objectives.</p> <p>() Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>Method Blanks:</u> () No detections in blanks</p> <p>() The following analytes were detected in one or more blanks, but concentrations are well below Project Action Levels, and/or analytes were not detected in associated field samples:</p>

Data Usability Assessment

(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines (NFG) may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Metals: Antimony, calcium, and thallium were detected in the method blank associated with samples MB-SB-7@2-4', MB-SB-7@2-4' DUP, and MB-SB-7@5.5-8 at levels greater than the method reporting limit. The results for antimony in samples MB-SB-7@2-4', MB-SB-7@2-4' DUP, and MB-SB-7@5.5-8; and for thallium in sample MB-SB-7@5.5-8 may be biased high.

The results for thallium in samples MB-SB-7@2-4' and MB-SB-7@2-4' DUP are nondetect; therefore, the results are usable for project objectives.

Since the results for calcium in the associated samples are greater than 10X the blank contamination, the results are usable for project objectives.

Laboratory Control Spikes/LCSD:

(X) All criteria met

() Recoveries and/or RPDs outside criteria for some analytes as described below; some bias may be present:

() Poor recoveries led to some data rejection; see Section on Rejections.

Internal Standards:

(X) Data not provided

() All criteria met

() Recoveries and/or retention times outside criteria for some analytes as described below; some bias may be present:

() Poor recoveries led to some data rejection; see Section on Rejections.

GC/MS Tunes:

(X) Data not provided

() All criteria met

() Analysis time and/or tune criteria not met as described below:

Calibrations:

(X) Data not provided

() All criteria met

() Minimum response factor/correlation coefficient, %RPD, %recovery, and/or %D outside criteria for some compounds as described below; some bias may be present.

() Minimum response factors do not meet criteria; the following data rejected:

Data Usability Assessment

	<p><u>Interference Check Standard (metals only):</u> <input checked="" type="checkbox"/> Data not provided <input type="checkbox"/> All criteria met <input type="checkbox"/> Recoveries outside limits in ICSA and/or ICSAB</p> <p><u>MS/MSD:</u> <input checked="" type="checkbox"/> Site-specific MS/MSD performed; see Field Data Usability discussion <input type="checkbox"/> Site-specific MS/MSD not requested</p>
<p>Discuss performance criteria and data quality indicators utilized to assess overall <u>Field Data Usability</u> (sample preservation compliance, sample sub sampling/compositing, etc.)</p>	<p><input checked="" type="checkbox"/> Sampling procedures as performed and sample containers used met all requirements and performance standards without qualification.</p> <p><input type="checkbox"/> Variances from requirements and performance standards for sampling procedures or containers occurred. Discuss data usability implications here.</p> <p><input checked="" type="checkbox"/> Sample preservation requirements and holding times met all requirements and performance standards without qualification.</p> <p><input type="checkbox"/> Variances from requirements occurred. Discuss data usability implications here or reference where discussed elsewhere (e.g., under Rejections).</p> <p><u>Field QC Sample Evaluation</u></p> <p><u>Field Duplicate RPDs:</u> <input type="checkbox"/> Field duplicates not collected for this site.</p> <p><input checked="" type="checkbox"/> RPD met criteria (that is, were $\leq 50\%$ for soil and $\leq 30\%$ for aqueous for detected analytes under the following circumstances):</p> <p style="padding-left: 40px;">Inorganics: both analytes detected at greater than 2x the RL Organics: both analytes detected at greater than 4x the RL</p> <p>VOCs: Field duplicate samples MB-SB-5@9.5-12' and MB-SB-5@9.5-12' DUP were collected for VOC analysis from this site; RPDs were acceptable.</p> <p>PCBs: Field duplicate samples MB-SB-9@5.5-8' and MB-SB-9@5.5-8' DUP were collected for PCB analysis from this site. The results for PCBs in both samples were nondetect; therefore, precision could not be assessed.</p> <p><input checked="" type="checkbox"/> RPD exceeded limits for the following analytes:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> All detections in both samples are well below applicable criteria; precision is acceptable for site decision-making:

Data Usability Assessment

- (X) Detections in samples are near applicable criteria; precision is not acceptable for site decision-making:

Metals:

Field duplicate samples MB-SB-7@2-4' and MB-SB-7@2-4' DUP were collected for metals analysis from this site. The RPD exceeded limits for antimony, arsenic, manganese, selenium, and silver. Since the results for arsenic are greater than the project RCL, precision is not acceptable for site decision-making. The results for antimony, manganese, selenium and silver are well below the project RCLs and precision is acceptable for site decision-making.

Site-Specific MS/MSD:

() None collected

(X) Collected and recoveries/RPDs within criteria

Recoveries and RPDs within criteria for VOCs, PAHs, PCBs, and mercury.

Matrix spike analysis for 6010B metals analysis was not included in this SDG.

() Collected; poor precision and/or accuracy noted in case narrative for some analytes indicates potential bias, as follows:

() Collected; poor recoveries require data rejection as discussed in Section on Rejections.

Sample Duplicate

(X) Data not provided

() Laboratory duplicate analyzed and percent difference is within criteria.

() Laboratory duplicates analyzed and percent difference is outside criteria indicating potential bias.

Serial Dilution

(X) Data not provided

() Serial dilution criteria met.

() Serial dilution analyzed; poor precision noted for some analytes indicates possible matrix interference:

Trip Blanks:

() None collected

(X) Collected, no detections

() The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Data Usability Assessment

Equipment Blanks:

- () None collected
- () Collected, no detections
- (X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

An equipment blank associated with the soil samples in this SDG was collected and reported in SDG WTK0161:

VOCs:

Toluene was detected in the equipment blank associated with these samples at levels greater than the method detection limit but below the reporting limit. Based on NFG, since the results for toluene in samples MB-SB-4@3.5-4', MB-SB-4@11.5-12', and MB-SB-5@2-4' are greater than the reporting limit, the data are usable for site decision-making.

PCBs:

PCB 1260 was detected in the equipment blank associated with these samples at levels greater than the method detection limit but below the reporting limit. Since the associated samples are nondetect, the results are usable for site decision-making.

Metals:

Calcium, copper, lead and zinc were detected in the equipment blank associated with these samples at levels greater than the method detection limit but less than the reporting limit. Barium was detected in the equipment blank at a level greater than the reporting limit. Based on NFG, since the results for barium, calcium, copper, lead, and zinc in samples MB-SB-7@2-4' DUP, MB-SB-7@2-4', and MB-SB-7@5.5-8' are more than 10X the contamination in the equipment blank, data are usable for site decision-making.

Data Usability Assessment

Discuss any data rejected pursuant to USEPA NFG.

Provide **Technical Justification** if data rejections are applied to results that may meet USEPA NFG, but are still rejected based on professional judgment.

Provide **Technical Justification** if data are judged usable based on professional judgment, despite failure of USEPA NFG.

(X) No data rejected pursuant to USEPA National Functional Guidelines (NFG)

() Rejections are recommended based on the following USEPA National Functional Guidelines criteria:

() Some rejection decisions were made that are not fully in accordance with USEPA National Functional Guidelines. Affected samples/analytes and Technical Justification follow:

<p>Summarize analytical data usability for this Sample Delivery Group.</p>	<p>() All data are usable for project objectives. No potential for bias is indicated.</p> <p>(X) Data are usable for project objectives, with limitations as noted below:</p> <p><u>Sensitivity – Comparison to Standards:</u></p> <ul style="list-style-type: none">(X) Non-detects for the following analytes are not usable for direct comparison to applicable WDNR criteria, because reporting limits in one or more field samples exceeded criteria, and the analytes are Analytes of Interest for this site: <p>VOCs: 1,2,3-trichloropropane and 1,2-dibromo-3-chloropropane in all soil samples</p> <p>VOCs: vinyl chloride in samples MB-SB-3@2-4', MB-SB-4@3.5-4', MB-SB-4@6.5-8', MB-SB-4@11.5-12', MB-SB-5@2-4', MB-SB-5@9.5-12', MB-SB-5@14-15', MB-SB-7@2-4', MB-SB-7@5.5-8', MB-SB-9@5.5-8', MB-SB-11@3-4', and MB-SB-12@2.5-4'</p> <p><u>Sensitivity – Blank Contamination</u></p> <ul style="list-style-type: none">(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA NFG may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <p>Metals: The results for antimony in samples MB-SB-7@2-4', MB-SB-7@2-4' DUP, and MB-SB-7@5.5-8' may be biased high.</p> <p>The results for thallium in sample MB-SB-7@5.5-8 may be biased high.</p> <p><u>Accuracy/Bias:</u></p> <ul style="list-style-type: none">(X) Bias is likely for the following Analytes of Interest and samples, based on surrogate recoveries outside criteria: <p>PAHs: The results for PAHs in sample MB-SB-3@2-4' may be biased; the direction of bias is not known.</p> <ul style="list-style-type: none">() Bias is likely for the following Analytes of Interest and samples, based on calibrations outside criteria:() Bias is likely for the following Analytes of Interest in all samples, based on MS/MSD, LCS/LCSD, and/or LFB recoveries outside criteria:
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	<ul style="list-style-type: none">- () Bias is likely for the following Analytes of Interest, based on interference check standard analysis: - () Bias is likely for the following Analytes of Interest, based on holding time criteria: <p><u>Precision:</u></p> <ul style="list-style-type: none">- (X) Precision does not meet RPD criteria for the following Analytes of Interest, based on review of field duplicate results: <p><u>Metals:</u> The RPD exceeded limits for antimony, arsenic, manganese, selenium, and silver.</p> <ul style="list-style-type: none">- () Precision does not meet % Difference criteria for the following Analytes of Interest, based on review of serial dilution results: <p>() Data for the following Analytes of Interest in the following samples are not usable because results were rejected due to limitations identified in the quality control review:</p>
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REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS

Purpose: To determine if data are unusable for supporting environmental investigation and remediation due to gross failure of quality control.

References:

USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organics Methods Data Review, June 2008

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Definition of Rejected Data: The data are unusable (analyte/compound may or may not be present) due to gross failure of quality control criteria and cannot be used to support project objectives.

Inorganic Criteria for Rejection of Data: Applicable to metals, hexavalent chromium, cyanide, and other inorganic parameters.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries:
 - Aqueous samples only: recovery < 50%: reject all results for affected analyte (professional judgment commonly used if LCS < 50% but MS shows acceptable recovery to determine result as usable; professional judgment may be used to reject non-detected results only)
 - Soil: solid LCS or Standard Reference Material recoveries compared to vendor control limits: use professional judgment on rejection of data
- Matrix Spike (MS) Recovery: recovery < 30%: reject non-detected results for affected analyte in all associated samples in batch (up to 20 associated samples). Exception: Low recovery of hexavalent chromium in soils may be acceptable if supported by pH and ORP data which demonstrate reducing conditions
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Organic Criteria for Rejection of Data Applicable to VOCs, SVOCs, ETPH, Pesticides, PCBs, and herbicides, and can also be applied to VPH/EPH.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Sample Preservation (VOCs only): Soil/sediment samples without methanol or water (alternative for low level VOCs only) preservation: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound
- Surrogate Recovery: recovery < 10%: reject associated non-detected results (see RCP method for compounds associated with surrogate by class), except if low recovery is due to necessary analytical dilution(s)

- Matrix Spike/Matrix Spike Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound in unspiked field sample only (i.e., field sample used for MS/MSD only)
- Calibrations: RRF < 0.05 (with no technical justification for RRF being lower): reject non-detected results for affected compound in all associated samples
- Internal Standards: Area Counts < 20% of associated Calibration Standard: reject associated non-detected results, depending on which compounds are quantitated with the affected internal standard
- Dual Column Precision: %D > 100% for single-component pesticides and herbicides: reject positive and non-detected results; % D > 500% for multicomponent pesticides and Aroclors: reject positive and non-detected results
- Endrin/DDT Breakdown: Breakdown >20%: reject non-detected results for endrin or DDT, whichever is affected
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

**DATA QA/QC DOCUMENTATION WORKSHEET:
ANALYTICAL DATA USABILITY ASSESSMENT**

DATE: January 6, 2011
PROJECT: Former Mirro Plant, Manitowoc, WI, Targeted Brownfield Assessment
LABORATORY (name and location): TestAmerica, Watertown, WI
SAMPLING DATE(S): October 26, 2010
SDG: WTK0164

ANALYSES AND ANALYTICAL METHODS:

Matrix	Analysis	Prep Method	Analytical Method
Soil	Volatile Organic Compounds (VOCs)	SW-846, 5035B	SW-846, 8260B
Soil	Polynuclear Aromatic Hydrocarbons (PAHs)	SW-846, 8310	SW-846, 8310
Soil	Polychlorinated Biphenyls (PCBs)	SW-846, 3550B	SW-846, 8082

SAMPLES AND PARAMETERS:

Sample	Matrix	VOC	PAH	PCB
MB-SB-TW-4@3-4'	Soil	X	X	
MB-SB-TW-1@2.5-4'	Soil		X	
MB-SB-TW-1@6-8'	Soil	X		
MB-SB-TW-2@8.5-9.5'	Soil	X		
MB-SB-TW-2@2-3.5'	Soil		X	
MB-SB-MW-18@3-4'	Soil	X	X	X
MB-SB-MW-18@6.5-8'	Soil	X	X	X
MB-SB-MW-18@6.5-8' DUP	Soil		X	
MB-SB-MW-18@14-16'	Soil	X		
MB-SB-MW-18@14-16' DUP	Soil	X		
MB-SB-MW-20@2-4'	Soil	X		
MB-SB-MW-20@2-4' DUP	Soil	X		
MB-SB-MW-20@5-8'	Soil	X		
MB-SB-MW-20@6.5-8'	Soil		X	

PROJECT OBJECTIVES: Soil analytical data were generated as part of a Targeted Brownfields Assessment of the former Mirro Plant No. 9 site, located at 1512 Washington Street in Manitowoc, Wisconsin. The data will be used to provide information on the nature and extent of elevated VOCs, PAHs, and metals in soil, oil, and groundwater and to identify whether other contaminants may be present. The data will be used to enhance the existing limited subsurface information in order to support remedial design and closure, to delineate extent of soil and groundwater contamination previously documented, and to prepare an Analysis of Brownfield Cleanup Alternative.

ANALYTES OF INTEREST/SITE HISTORY: VOCs, SVOCs, and metals. Specifically the following compounds have been detected or exceeded WDNR standards:

- Aluminum (soil)
- Selenium (soil)

Chloromethane (soil)
Naphthalene (soil)
Tetrachloroethene (PCE) (soil)
Aroclor 1260 (PCB) (soil)
Chrysene (groundwater)
Cis-1,2-dichloroethene (groundwater)
Benzo(b)fluoranthene (soil and groundwater)
Trichloroethylene (TCE) (soil and groundwater)
Benzene (soil and groundwater)

PROJECT ACTION LEVELS: Wisconsin Department of Natural Resources (WDNR) RCLs.

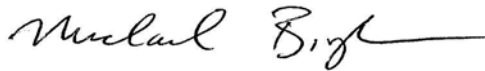
Data Reviewer: Kristin Rutherford



January 10, 2011

(signature, date)

Project Manager: Mike Bingham



January 10, 2011

(signature, date)

<u>Data Usability Assessment</u>	
<p>List all activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment. Include the media sampled and the month and year the data were acquired.</p>	<p><input checked="" type="checkbox"/> (X) Listed below (for this SDG only).</p> <p>Activity: Sampling under a Targeted Brownfield Assessment. Media: Soils Sampling Month and Year: October 2010</p> <p><input type="checkbox"/> () Attached separately</p>
<p>Discuss appropriateness of selected analytical methods to quantitatively support the site investigation (exclusive of sensitivity).</p>	<p>USEPA SW-846 analytical methods used were appropriate and data is usable for project objectives.</p>
<p>Discuss appropriateness of selected analytical methods' Reporting Limits (RL) with respect to WDNR criteria.</p>	<p><input type="checkbox"/> () All Reporting Limits were at or below applicable criteria in all samples.</p> <p><input type="checkbox"/> () Reporting Limits were above applicable WDNR criteria for certain analytes in certain samples, due to sample dilution because of elevated concentrations of other target analytes, non-target analytes, or matrix interferences. See attached table:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> () This limitation is significant for the following analytes and samples: <p><input type="checkbox"/> () Reporting limits were above applicable WDNR criteria for the following analytes that are acknowledged Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.

Data Usability Assessment

	<p>(X) Reporting limits were above applicable WDNR criteria for the following samples and analytes, unrelated to dilution and exclusive of Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - (X) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. <p>VOCs: 1,2,3-trichloropropane and 1,2-dibromo-3-chloropropane in all soil samples</p> <p>VOCs: vinyl chloride in samples MB-SB-MW-18@14-16' and MB-SB-MW-18@14-16' DUP</p> <p>PAHs: dibenzo(a,h)anthracene in sample MB-SB-TW-1@2.5-4'</p> <ul style="list-style-type: none"> - () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.
<p>Discuss laboratory performance criteria and data quality indicators utilized to assess overall <u>Analytical Accuracy</u> (continuing calibration, laboratory control spikes, etc.) and <u>Analytical Precision</u> (laboratory duplicates, laboratory control spike duplicates, etc.).</p>	<p>() Met all requirements and performance standards without qualification.</p> <p>(X) Did not meet all requirements and performance standards.</p> <p><u>Surrogate Recoveries:</u> () All criteria met</p> <p>(X) Recoveries for some samples and analytes were outside criteria, leading to potential bias in results as summarized below:</p> <p>PAHs: Due to target compound concentrations, the following samples required dilutions: MB-SB-TW-4@3-4 (50X), MB-SB-TW-2@2-3.5' (10X), MB-SB-MW-18@6.5-8' DUP (9.9X), and MB-SB-MW-18@6.5-8' (10X). As a result, surrogates were not recovered and the extraction efficiency could not be assessed. The results for PAHs may be biased; the direction of bias is not known. Since the associated LCS recoveries were acceptable, professional judgment was used to not reject the data based on surrogate recoveries. The data are usable for project objectives.</p> <p>() Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>Method Blanks:</u> (X) No detections in blanks</p> <p>() The following analytes were detected in one or more blanks, but</p>

Data Usability Assessment

	<p>concentrations are well below Project Action Levels, and/or analytes were not detected in associated field samples:</p> <p>() The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines (NFG) may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:</p> <p><u>Laboratory Control Spikes/LCSD:</u> (X) All criteria met</p> <p>() Recoveries and/or RPDs outside criteria for some analytes as described below; some bias may be present:</p> <p>() Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>Internal Standards:</u> (X) Data not provided () All criteria met () Recoveries and/or retention times outside criteria for some analytes as described below; some bias may be present: () Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>GC/MS Tunes:</u> (X) Data not provided () All criteria met () Analysis time and/or tune criteria not met as described below:</p> <p><u>Calibrations:</u> (X) Data not provided () All criteria met () Minimum response factor/correlation coefficient, %RPD, %recovery, and/or %D outside criteria for some compounds as described below; some bias may be present. () Minimum response factors do not meet criteria; the following data rejected:</p> <p><u>MS/MSD:</u> (X) Site-specific MS/MSD performed; see Field Data Usability discussion () Site-specific MS/MSD not requested</p>
<p>Discuss performance criteria and data quality indicators utilized to assess overall <u>Field Data Usability</u> (sample preservation compliance, sample sub</p>	<p>(X) Sampling procedures as performed and sample containers used met all requirements and performance standards without qualification.</p> <p>() Variances from requirements and performance standards for sampling procedures or containers occurred. Discuss data usability implications here.</p>

Data Usability Assessment

sampling/compositing, etc.)

- (X) Sample preservation requirements and holding times met all requirements and performance standards without qualification.
- () Variances from requirements occurred. Discuss data usability implications here or reference where discussed elsewhere (e.g., under Rejections).

Field QC Sample Evaluation

Field Duplicate RPDs:

() Field duplicates not collected for this site.

(X) RPD met criteria (that is, were $\leq 50\%$ for soil and $\leq 30\%$ for aqueous for detected analytes under the following circumstances):

Inorganics: both analytes detected at greater than 2x the RL
Organics: both analytes detected at greater than 4x the RL

VOCs:

Field duplicate samples MB-SB-MW-18@14-16' and MB-SB-MW-18@14-16' DUP were collected for VOC analysis from this site. The results for VOCs in both samples were nondetect; therefore, precision could not be assessed.

VOCs:

Field duplicate samples MB-SB-MW-20@2-4' and MB-SB-MW-20@2-4' DUP were collected for VOC analysis from this site. The RPD criteria were met for sample results $>4X$ the reporting limit. Precision is acceptable for site decision-making.

PAHs:

Field duplicate samples MB-SB-MW-18@6.5-8' and MB-SB-MW-18@6.5-8' DUP were collected for PAH analysis from this site. The RPD criteria were met for sample results $>4X$ the reporting limit. Precision is acceptable for site decision-making.

(X) RPD exceeded limits for the following analytes:

- () All detections in both samples are well below applicable criteria; precision is acceptable for site decision-making:
- (X) Detections in samples are near applicable criteria; precision is not acceptable for site decision-making:

PAHs:

Field duplicate samples MB-SB-MW-18@6.5-8' and MB-SB-MW-18@6.5-

Data Usability Assessment

8' DUP were collected for PAH analysis from this site. The RPDs for anthracene, benzo(a)anthracene, fluoranthene, fluorene, and phenanthrene did not meet criteria. Since the results for anthracene, fluoranthene, fluorene and phenanthrene in the sample and duplicate are well below project RCLs, the results are usable for site decision-making. The results for benzo(a)anthracene in the sample and duplicate are above the project RCLs and precision is not acceptable for site decision-making.

Site-Specific MS/MSD:

None collected

Collected and recoveries/RPDs within criteria

Recoveries and RPDs within criteria for VOCs, PAHs, and PCBs.

Collected; poor precision and/or accuracy noted in case narrative for some analytes indicates potential bias, as follows:

Collected; poor recoveries require data rejection as discussed in Section on Rejections.

Sample Duplicate

Data not provided

Laboratory duplicate analyzed and percent difference is within criteria.

Laboratory duplicates analyzed and percent difference is outside criteria indicating potential bias.

Trip Blanks:

None collected

Collected, no detections

The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Equipment Blanks:

None collected

Collected, no detections

The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

An equipment blank associated with the soil samples in this SDG was collected and reported in SDG WTK0161:

Data Usability Assessment

VOCs:

Toluene was detected in the equipment blank associated with these samples at levels greater than the method detection limit but below the reporting limit. Based on NFG, since the result for toluene in sample MB-SB-MW-20@2-4' DUP is greater than the reporting limit, the data are usable for project objectives.

PCBs:

PCB 1260 was detected in the equipment blank associated with these samples at levels greater than the method detection limit but below the reporting limit. Since the associated samples are nondetect, the results are usable for site decision-making.

Data Usability Assessment

Discuss any data rejected pursuant to USEPA NFG.

Provide **Technical Justification** if data rejections are applied to results that may meet USEPA NFG, but are still rejected based on professional judgment.

Provide **Technical Justification** if data are judged usable based on professional judgment, despite failure of USEPA NFG.

() No data rejected pursuant to USEPA National Functional Guidelines (NFG)

(X) Rejections are recommended based on the following USEPA National Functional Guidelines criteria:

The technical holding time criterion for non-aqueous samples are as follows:

For volatile components that are frozen (less than -7°C) or are properly cooled (4°C ± 2°C) and preserved with NaHSO₄, the maximum holding time is 14 days from sample collection.

The nondetect VOC results in samples MB-SB-TW-4@3-4', MB-SB-TW-1@6-8', MB-SB-TW-2@8.5-9.5', MB-SB-MW-18@3-4', MB-SB-MW-18@6.5-8', MB-SB-MW-18@14-16', MB-SB-MW-18@14-16' DUP, MB-SB-MW-20@2-4', MB-SB-MW-20@2-4' DUP, and MB-SB-MW-20@5-8' would be rejected based on NFG holding time criteria. However, based on the **REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS** listed below, because the holding time was not grossly exceeded (>2X the allowable holding time), the data is qualified as biased low and not rejected.

() Some rejection decisions were made that are not fully in accordance with USEPA National Functional Guidelines. Affected samples/analytes and Technical Justification follow:

Summarize analytical data usability for this Sample Delivery Group.	<p>() All data are usable for project objectives. No potential for bias is indicated.</p> <p>(X) Data are usable for project objectives, with limitations as noted below:</p> <p><u>Sensitivity – Comparison to Standards:</u></p> <ul style="list-style-type: none">(X) Non-detects for the following analytes are not usable for direct comparison to applicable WDNR criteria, because reporting limits in one or more field samples exceeded criteria, and the analytes are Analytes of Interest for this site: <p>VOCs: 1,2,3-trichloropropane and 1,2-dibromo-3-chloropropane in all soil samples</p> <p>VOCs: vinyl chloride in samples MB-SB-MW-18@14-16' and MB-SB-MW-18@14-16' DUP</p> <p>PAHs: dibenzo(a,h)anthracene in sample MB-SB-TW-1@2.5-4'</p> <p><u>Sensitivity – Blank Contamination</u></p> <ul style="list-style-type: none">() The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA NFG may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <p><u>Accuracy/Bias:</u></p> <ul style="list-style-type: none">(X) Bias is likely for the following Analytes of Interest and samples, based on surrogate recoveries outside criteria: <p>PAHs: The results for PAHs in samples MB-SB-TW-4@3-4, MB-SB-TW-2@2-3.5', MB-SB-MW-18@6.5-8' DUP, and MB-SB-MW-18@6.5-8' may be biased; the direction of bias is not known.</p> <ul style="list-style-type: none">() Bias is likely for the following Analytes of Interest and samples, based on calibrations outside criteria:() Bias is likely for the following Analytes of Interest in all samples, based on MS/MSD, LCS/LCSD, and/or LFB recoveries outside criteria:(X) Bias is likely for the following Analytes of Interest, based on holding time criteria:
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	<p>VOCs: The following positive results are biased low because samples were analyzed beyond the 14 day holding time criteria:</p> <p>WTK0164-02 (MB-SB-TW-4@3-4' – naphthalene MB-SB-MW-18@6.5-8' – 1,2,4-trimethylbenzene MB-SB-MW-20@2-4' – naphthalene, tetrachloroethene, trichloroethene, 1,2,4-trimethylbenzene, xylenes total MB-SB-MW-20@2-4' DUP – naphthalene, tetrachloroethene, toluene, trichloroethene, 1,2,4-trimethylbenzene, xylenes total</p> <p>The nondetect results in the following samples are biased low because samples were analyzed beyond the 14 day holding time criteria:</p> <p>MB-SB-TW-4@3-4', MB-SB-TW-1@6-8', MB-SB-TW-2@8.5-9.5', MB-SB-MW-18@3-4', MB-SB-MW-18@6.5-8', MB-SB-MW-18@14-16', MB-SB-MW-18@14-16' DUP, MB-SB-MW-20@2-4', MB-SB-MW-20@2-4' DUP, and MB-SB-MW-20@5-8'</p> <p><u>Precision:</u></p> <ul style="list-style-type: none">– (X) Precision does not meet RPD criteria for the following Analytes of Interest, based on review of field duplicate results: <p>PAHs: anthracene, benzo(a)anthracene, fluoranthene, fluorene, phenanthrene</p> <ul style="list-style-type: none">– () Precision does not meet % Difference criteria for the following Analytes of Interest, based on review of serial dilution results: <p>() Data for the following Analytes of Interest in the following samples are not usable because results were rejected due to limitations identified in the quality control review:</p>
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REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS

Purpose: To determine if data are unusable for supporting environmental investigation and remediation due to gross failure of quality control.

References:

USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organics Methods Data Review, June 2008

USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004

Definition of Rejected Data: The data are unusable (analyte/compound may or may not be present) due to gross failure of quality control criteria and cannot be used to support project objectives.

Inorganic Criteria for Rejection of Data: Applicable to metals, hexavalent chromium, cyanide, and other inorganic parameters.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries:
 - Aqueous samples only: recovery < 50%: reject all results for affected analyte (professional judgment commonly used if LCS < 50% but MS shows acceptable recovery to determine result as usable; professional judgment may be used to reject non-detected results only)
 - Soil: solid LCS or Standard Reference Material recoveries compared to vendor control limits: use professional judgment on rejection of data
- Matrix Spike (MS) Recovery: recovery < 30%: reject non-detected results for affected analyte in all associated samples in batch (up to 20 associated samples). Exception: Low recovery of hexavalent chromium in soils may be acceptable if supported by pH and ORP data which demonstrate reducing conditions
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

Organic Criteria for Rejection of Data Applicable to VOCs, SVOCs, ETPH, Pesticides, PCBs, and herbicides, and can also be applied to VPH/EPH.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Sample Preservation (VOCs only): Soil/sediment samples without methanol or water (alternative for low level VOCs only) preservation: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound
- Surrogate Recovery: recovery < 10%: reject associated non-detected results (see RCP method for compounds associated with surrogate by class), except if low recovery is due to necessary analytical dilution(s)

- Matrix Spike/Matrix Spike Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound in unspiked field sample only (i.e., field sample used for MS/MSD only)
- Calibrations: RRF < 0.05 (with no technical justification for RRF being lower): reject non-detected results for affected compound in all associated samples
- Internal Standards: Area Counts < 20% of associated Calibration Standard: reject associated non-detected results, depending on which compounds are quantitated with the affected internal standard
- Dual Column Precision: %D > 100% for single-component pesticides and herbicides: reject positive and non-detected results; % D > 500% for multicomponent pesticides and Aroclors: reject positive and non-detected results
- Endrin/DDT Breakdown: Breakdown >20%: reject non-detected results for endrin or DDT, whichever is affected
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

**DATA QA/QC DOCUMENTATION WORKSHEET:
ANALYTICAL DATA USABILITY ASSESSMENT**

DATE: January 7, 2011
PROJECT: Former Mirro Plant, Manitowoc, WI, Targeted Brownfield Assessment
LABORATORY (name and location): TestAmerica, Watertown, WI
SAMPLING DATE(S): November 16, 2010
SDG: WTK0653

ANALYSES AND ANALYTICAL METHODS:

Matrix	Analysis	Prep Method	Analytical Method
Aqueous	Volatile Organic Compounds (VOCs)	SW-846, 5030	SW-846, 8260B
Aqueous	Polynuclear Aromatic Hydrocarbons (PAHs)	SW-846, 8310	SW-846, 8310
Aqueous	Metals	SW-846, 3020A/7470A	SW-846, 6020A/7470A

SAMPLES AND PARAMETERS:

Sample	Matrix	VOC	PAH	Metals
MB-GW-MW-15	Groundwater	X		X
MB-GW-MW-15 Dup	Groundwater			X
MB-GW-MW-16A	Groundwater	X		
MB-GW-MW-16 A Dup	Groundwater	X		
MB-GW-MW-16	Groundwater	X	X	X
MB-GW-MW-16 Dup	Groundwater		X	
MB-GW-MW-17	Groundwater	X		X
Trip Blank	Aqueous	X		

PROJECT OBJECTIVES: Groundwater analytical data were generated as part of a Targeted Brownfields Assessment of the former Mirro Plant No. 9 site, located at 1512 Washington Street in Manitowoc, Wisconsin. The data will be used to provide information on the nature and extent of elevated VOCs, PAHs, and metals in soil, oil, and groundwater and to identify whether other contaminants may be present. The data will be used to enhance the existing limited subsurface information in order to support remedial design and closure, to delineate extent of soil and groundwater contamination previously documented, and to prepare an Analysis of Brownfield Cleanup Alternative.

ANALYTES OF INTEREST/SITE HISTORY: VOCs, SVOCs, and metals. Specifically the following compounds have been detected or exceeded WDNR standards:

- Aluminum (soil)
- Selenium (soil)
- Chloromethane (soil)
- Naphthalene (soil)
- Tetrachloroethene (PCE) (soil)
- Aroclor 1260 (PCB) (soil)
- Chrysene (groundwater)

Cis-1,2-dichloroethene (groundwater)
Benzo(b)fluoranthene (soil and groundwater)
Trichloroethylene (TCE) (soil and groundwater)
Benzene (soil and groundwater)

PROJECT ACTION LEVELS: Wisconsin Department of Natural Resources (WDNR) RCLs.

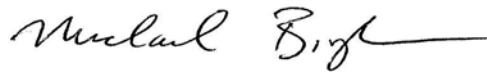
Data Reviewer: Kristin Rutherford



January 10, 2011

(signature, date)

Project Manager: Mike Bingham



January 10, 2011

(signature, date)

<u>Data Usability Assessment</u>	
<p>List all activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment. Include the media sampled and the month and year the data were acquired.</p>	<p><input checked="" type="checkbox"/> (X) Listed below (for this SDG only).</p> <p>Activity: Sampling under a Targeted Brownfield Assessment. Media: Groundwaters Sampling Month and Year: November 2010</p> <p><input type="checkbox"/> () Attached separately</p>
<p>Discuss appropriateness of selected analytical methods to quantitatively support the site investigation (exclusive of sensitivity).</p>	<p>USEPA SW-846 analytical methods used were appropriate and data is usable for project objectives.</p>
<p>Discuss appropriateness of selected analytical methods' Reporting Limits (RL) with respect to WDNR criteria.</p>	<p><input type="checkbox"/> () All Reporting Limits were at or below applicable criteria in all samples.</p> <p><input type="checkbox"/> () Reporting Limits were above applicable WDNR criteria for certain analytes in certain samples, due to sample dilution because of elevated concentrations of other target analytes, non-target analytes, or matrix interferences. See attached table:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> () This limitation is significant for the following analytes and samples: <p><input type="checkbox"/> () Reporting limits were above applicable WDNR criteria for the following analytes that are acknowledged Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> () This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.

Data Usability Assessment

	<p>(X) Reporting limits were above applicable WDNR NR 140 Enforcement Standards criteria for the following samples and analytes, unrelated to dilution and exclusive of Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - (X) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. <p>VOCs: 1,2-dibromo-3-chloro-propane and 1,2-dibromoethane in all groundwater samples</p> <p>Metals: zinc in samples MB-GW-MW-15 and MB-GW-MW-16</p> <ul style="list-style-type: none"> - () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.
<p>Discuss laboratory performance criteria and data quality indicators utilized to assess overall <u>Analytical Accuracy</u> (continuing calibration, laboratory control spikes, etc.) and <u>Analytical Precision</u> (laboratory duplicates, laboratory control spike duplicates, etc.).</p>	<p>() Met all requirements and performance standards without qualification. (X) Did not meet all requirements and performance standards.</p> <p><u>Surrogate Recoveries:</u> (X) All criteria met</p> <p>() Recoveries for some samples and analytes were outside criteria, leading to potential bias in results as summarized below:</p> <p>() Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>Method Blanks:</u> () No detections in blanks</p> <p>() The following analytes were detected in one or more blanks, but concentrations are well below Project Action Levels, and/or analytes were not detected in associated field samples:</p> <p>(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines (NFG) may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:</p> <p>Metals: Antimony and selenium were detected in the method blank associated with samples MB-GW-MW-15, MB-GW-MW-15 Dup, MB-GW-MW-16, and MB-GW-MW-17 at levels greater than the method detection</p>

Data Usability Assessment

	<p>limit but below reporting limit. The results for antimony and selenium in sample MB-GW-MW-17 may be biased high. The results for antimony and selenium in the other samples are nondetect and usable for site decision-making.</p> <p><u>Laboratory Control Spikes/LCSD:</u> <input checked="" type="checkbox"/> All criteria met <input type="checkbox"/> Recoveries and/or RPDs outside criteria for some analytes as described below; some bias may be present: <input type="checkbox"/> Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>Internal Standards:</u> <input checked="" type="checkbox"/> Data not provided <input type="checkbox"/> All criteria met <input type="checkbox"/> Recoveries and/or retention times outside criteria for some analytes as described below; some bias may be present: <input type="checkbox"/> Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>GC/MS Tunes:</u> <input checked="" type="checkbox"/> Data not provided <input type="checkbox"/> All criteria met <input type="checkbox"/> Analysis time and/or tune criteria not met as described below:</p> <p><u>Calibrations:</u> <input checked="" type="checkbox"/> Data not provided <input type="checkbox"/> All criteria met <input type="checkbox"/> Minimum response factor/correlation coefficient, %RPD, %recovery, and/or %D outside criteria for some compounds as described below; some bias may be present. <input type="checkbox"/> Minimum response factors do not meet criteria; the following data rejected:</p> <p><u>Interference Check Standard (metals only):</u> <input checked="" type="checkbox"/> Data not provided <input type="checkbox"/> All criteria met <input type="checkbox"/> Recoveries outside limits in ICSA and/or ICSAB</p> <p><u>MS/MSD:</u> <input checked="" type="checkbox"/> Site-specific MS/MSD performed; see Field Data Usability discussion <input type="checkbox"/> Site-specific MS/MSD not requested</p>
<p>Discuss performance criteria and data quality indicators utilized to assess overall <u>Field Data Usability</u> (sample preservation compliance, sample sub sampling/compositing, etc.)</p>	<p><input checked="" type="checkbox"/> Sampling procedures as performed and sample containers used met all requirements and performance standards without qualification.</p> <p><input type="checkbox"/> Variances from requirements and performance standards for sampling procedures or containers occurred. Discuss data usability implications here.</p>

Data Usability Assessment

- () Sample preservation requirements and holding times met all requirements and performance standards without qualification.
- (X) Variances from requirements occurred. Discuss data usability implications here or reference where discussed elsewhere (e.g., under Rejections).

As noted on the laboratory Cooler Receipt Log, the VOC Trip Blank was received with >6mm headspace. Based on NFG, the positive results in the Trip Blank would be biased low and the nondetect results would be rejected.

Field QC Sample Evaluation

Field Duplicate RPDs:

- () Field duplicates not collected for this site.
- (X) RPD met criteria (that is, were $\leq 50\%$ for soil and $\leq 30\%$ for aqueous for detected analytes under the following circumstances):

Inorganics: both analytes detected at greater than 2x the RL
Organics: both analytes detected at greater than 4x the RL

VOCs:

Field duplicate samples MB-GW-MW-16A and MB-GW-MW-16A Dup were collected for VOC analysis from this site. The results for VOCs in both samples were nondetect; therefore, precision could not be assessed.

PAHs:

Field duplicate samples MB-GW-MW-16 and MB-GW-MW-16 Dup were collected for PAH analysis from this site. The results for PAHs in both samples were nondetect; therefore, precision could not be assessed.

- (X) RPD exceeded limits for the following analytes:
- () All detections in both samples are well below applicable criteria; precision is acceptable for site decision-making:
 - (X) Detections in samples are near applicable criteria; precision is not acceptable for site decision-making:

Metals:

Field duplicate samples MB-GW-MW-15 and MB-GW-MW-15 Dup were collected for metals analysis from this site. The results for aluminum, iron, and manganese did not meet RPD criteria. The results for iron and manganese are above the project RCLs; therefore, precision is not acceptable for site decision-making. Since there are no project RCLs for

Data Usability Assessment

aluminum, and aluminum is not an analyte of concern in groundwater samples, the results are acceptable for site decision-making.

Site-Specific MS/MSD:

None collected

Collected and recoveries/RPDs within criteria

Collected; poor precision and/or accuracy for some analytes indicates potential bias, as follows:

Metals:

MS /MSD recoveries were above criteria for calcium, magnesium, manganese, and sodium. Because the sample concentration was >4X the spiked amount, the results are not useful for spike recovery information and results are acceptable for site decision-making.

Metals:

MS and/or MSD recovery of potassium and silver was below criteria. Based on USEPA NFG, the positive and nondetect results for potassium and silver in samples MB-GW-MW-15, MB-GW-MW-15 Dup, MB-GW-MW-16, MB-GW-MW-17, and MB-GW-MW-17 Dup may be biased low.

Metals:

MS recovery of barium was above criteria. Based on USEPA NFG, the positive results for barium in all groundwater samples may be biased high.

Matrix spike analysis for VOCs and PAHs was performed on a sample from a different site; therefore, MS/MSD data not assessed for these analyses.

Collected; poor recoveries require data rejection as discussed in Section on Rejections.

Sample Duplicate

Data not provided

Laboratory duplicate analyzed and percent difference is within criteria.

Laboratory duplicates analyzed and percent difference is outside criteria indicating potential bias.

Serial Dilution

Data not provided

Serial dilution criteria met.

Serial dilution analyzed; poor precision noted for some analytes indicates possible matrix interference:

Data Usability Assessment

Trip Blanks:

- None collected
 Collected, no detections

Note that due to sample preservation issues, the nondetect results in the Trip Blank are rejected and not usable for comparison to groundwater samples for possible contamination.

The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Equipment Blanks:

- None collected
 Collected, no detections
 The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

An equipment blank associated with the groundwater samples in this SDG was collected and reported in SDG WTK0859:

VOCs:

Toluene was detected in the equipment blank associated with these samples at levels greater than the method detection limit but below the reporting limit. Since the associated samples are nondetect, the results are usable for site decision-making.

VOCs:

Methylene chloride was detected in the equipment blank associated with these samples at levels greater than the reporting limit. Since the associated samples are nondetect, the results are usable for site decision-making.

Data Usability Assessment

Discuss any data rejected pursuant to USEPA NFG.

Provide **Technical Justification** if data rejections are applied to results that may meet USEPA NFG, but are still rejected based on professional judgment.

Provide **Technical Justification** if data are judged usable based on professional judgment, despite failure of USEPA NFG.

() No data rejected pursuant to USEPA National Functional Guidelines (NFG)

(X) Rejections are recommended based on the following USEPA National Functional Guidelines criteria:

If there is no evidence that the samples were properly preserved, and the samples were analyzed outside of the technical holding time (7 days from sample collection), qualify detects for all volatile compounds with a "J" and non-detects as unusable "R".

As noted on the laboratory Cooler Receipt Log, VOC Trip Blank was received with >6mm headspace. Based on NFG, the positive results in the Trip Blank would be biased low and the nondetect results would be rejected.

() Some rejection decisions were made that are not fully in accordance with USEPA National Functional Guidelines. Affected samples/analytes and Technical Justification follow:

<p>Summarize analytical data usability for this Sample Delivery Group.</p>	<p>() All data are usable for project objectives. No potential for bias is indicated.</p> <p>(X) Data are usable for project objectives, with limitations as noted below:</p> <p><u>Sensitivity – Comparison to Standards:</u></p> <ul style="list-style-type: none">(X) Non-detects for the following analytes are not usable for direct comparison to applicable WDNR criteria, because reporting limits in one or more field samples exceeded criteria, and the analytes are Analytes of Interest for this site: <p>VOCs: 1,2-dibromo-3-chloro-propane and 1,2-dibromoethane in all groundwater samples</p> <p>Metals: zinc in samples MB-GW-MW-15 and MB-GW-MW-16</p> <p><u>Sensitivity – Blank Contamination</u></p> <ul style="list-style-type: none">(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA NFG may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <p>Metals: The results for antimony and selenium in sample MB-GW-MW-17 may be biased high.</p> <p><u>Accuracy/Bias:</u></p> <ul style="list-style-type: none">() Bias is likely for the following Analytes of Interest and samples, based on surrogate recoveries outside criteria:() Bias is likely for the following Analytes of Interest and samples, based on calibrations outside criteria:(X) Bias is likely for the following Analytes of Interest in all samples, based on MS/MSD, LCS/LCSD, and/or LFB recoveries outside criteria: <p>Metals: The positive and nondetect results for potassium and silver in all groundwater samples may be biased low.</p> <p>Metals: The positive results for barium in all groundwater samples may be biased high.</p>
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	<ul style="list-style-type: none">- () Bias is likely for the following Analytes of Interest, based on interference check standard analysis: - () Bias is likely for the following Analytes of Interest, based on holding time criteria: <p><u>Precision:</u></p> <ul style="list-style-type: none">- (X) Precision does not meet RPD criteria for the following Analytes of Interest, based on review of field duplicate results: <p><u>Metals:</u> The RPD exceeded limits for aluminum, iron, and manganese.</p> <ul style="list-style-type: none">- () Precision does not meet % Difference criteria for the following Analytes of Interest, based on review of serial dilution results: <p>(X) Data for the following Analytes of Interest in the following samples are not usable because results were rejected due to limitations identified in the quality control review:</p> <p>The positive results in the Trip Blank would be biased low and the nondetect results would be rejected based on sample preservation.</p>
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REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS

Purpose: To determine if data are unusable for supporting environmental investigation and remediation due to gross failure of quality control.

References:

USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organics Methods Data Review, June 2008

USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004

Definition of Rejected Data: The data are unusable (analyte/compound may or may not be present) due to gross failure of quality control criteria and cannot be used to support project objectives.

Inorganic Criteria for Rejection of Data: Applicable to metals, hexavalent chromium, cyanide, and other inorganic parameters.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries:
 - Aqueous samples only: recovery < 50%: reject all results for affected analyte (professional judgment commonly used if LCS < 50% but MS shows acceptable recovery to determine result as usable; professional judgment may be used to reject non-detected results only)
 - Soil: solid LCS or Standard Reference Material recoveries compared to vendor control limits: use professional judgment on rejection of data
- Matrix Spike (MS) Recovery: recovery < 30%: reject non-detected results for affected analyte in all associated samples in batch (up to 20 associated samples). Exception: Low recovery of hexavalent chromium in soils may be acceptable if supported by pH and ORP data which demonstrate reducing conditions
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

Organic Criteria for Rejection of Data Applicable to VOCs, SVOCs, ETPH, Pesticides, PCBs, and herbicides, and can also be applied to VPH/EPH.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Sample Preservation (VOCs only): Soil/sediment samples without methanol or water (alternative for low level VOCs only) preservation: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound
- Surrogate Recovery: recovery < 10%: reject associated non-detected results (see RCP method for compounds associated with surrogate by class), except if low recovery is due to necessary analytical dilution(s)

- Matrix Spike/Matrix Spike Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound in unspiked field sample only (i.e., field sample used for MS/MSD only)
- Calibrations: RRF < 0.05 (with no technical justification for RRF being lower): reject non-detected results for affected compound in all associated samples
- Internal Standards: Area Counts < 20% of associated Calibration Standard: reject associated non-detected results, depending on which compounds are quantitated with the affected internal standard
- Dual Column Precision: %D > 100% for single-component pesticides and herbicides: reject positive and non-detected results; % D > 500% for multicomponent pesticides and Aroclors: reject positive and non-detected results
- Endrin/DDT Breakdown: Breakdown >20%: reject non-detected results for endrin or DDT, whichever is affected
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

**DATA QA/QC DOCUMENTATION WORKSHEET:
ANALYTICAL DATA USABILITY ASSESSMENT**

DATE: January 7, 2011
PROJECT: Former Mirro Plant, Manitowoc, WI, Targeted Brownfield Assessment
LABORATORY (name and location): TestAmerica, Watertown, WI
SAMPLING DATE(S): November 23, 2010
SDG: WTK0859

ANALYSES AND ANALYTICAL METHODS:

Matrix	Analysis	Prep Method	Analytical Method
Aqueous	Volatile Organic Compounds (VOCs)	SW-846, 5030	SW-846, 8260B
Aqueous	Polynuclear Aromatic Hydrocarbons (PAHs)	SW-846, 8310	SW-846, 8310
Aqueous	Metals	SW-846, 3020A/7470A	SW-846, 6020A/7470A

SAMPLES AND PARAMETERS:

Sample	Matrix	VOC	PAH	Metals
MB-GW-MW-14	Groundwater	X		X
MB-GW-MW-19	Groundwater	X		X
MB-GW-GP-12	Groundwater	X		X
MB-GW-MW-20	Groundwater	X		
MB-GW-MW-20 Dup	Groundwater	X		
MB-GW-TW-1	Groundwater	X	X	X
MB-GW-TW-2	Groundwater	X	X	X
Trip Blank	Aqueous	X		
Equipment Blank	Aqueous	X	X	

PROJECT OBJECTIVES: Groundwater analytical data were generated as part of a Targeted Brownfields Assessment of the former Mirro Plant No. 9 site, located at 1512 Washington Street in Manitowoc, Wisconsin. The data will be used to provide information on the nature and extent of elevated VOCs, PAHs, and metals in soil, oil, and groundwater and to identify whether other contaminants may be present. The data will be used to enhance the existing limited subsurface information in order to support remedial design and closure, to delineate extent of soil and groundwater contamination previously documented, and to prepare an Analysis of Brownfield Cleanup Alternative.

ANALYTES OF INTEREST/SITE HISTORY: VOCs, SVOCs, and metals. Specifically the following compounds have been detected or exceeded WDNR standards:

- Aluminum (soil)
- Selenium (soil)
- Chloromethane (soil)
- Naphthalene (soil)
- Tetrachloroethene (PCE) (soil)
- Aroclor 1260 (PCB) (soil)

Chrysene (groundwater)
Cis-1,2-dichloroethene (groundwater)
Benzo(b)fluoranthene (soil and groundwater)
Trichloroethylene (TCE) (soil and groundwater)
Benzene (soil and groundwater)

PROJECT ACTION LEVELS: Wisconsin Department of Natural Resources (WDNR) RCLs.

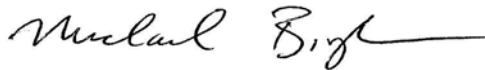
Data Reviewer: Kristin Rutherford



January 10, 2011

(signature, date)

Project Manager: Mike Bingham



January 10, 2011

(signature, date)

<u>Data Usability Assessment</u>	
<p>List all activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment. Include the media sampled and the month and year the data were acquired.</p>	<p><input checked="" type="checkbox"/> Listed below (for this SDG only).</p> <p>Activity: Sampling under a Targeted Brownfield Assessment. Media: Groundwaters Sampling Month and Year: November 2010</p> <p><input type="checkbox"/> Attached separately</p>
<p>Discuss appropriateness of selected analytical methods to quantitatively support the site investigation (exclusive of sensitivity).</p>	<p>USEPA SW-846 analytical methods used were appropriate and data is usable for project objectives.</p>
<p>Discuss appropriateness of selected analytical methods' Reporting Limits (RL) with respect to WDNR criteria.</p>	<p><input type="checkbox"/> All Reporting Limits were at or below applicable criteria in all samples.</p> <p><input type="checkbox"/> Reporting Limits were above applicable WDNR criteria for certain analytes in certain samples, due to sample dilution because of elevated concentrations of other target analytes, non-target analytes, or matrix interferences. See attached table:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> This limitation is significant for the following analytes and samples: <p><input type="checkbox"/> Reporting limits were above applicable WDNR criteria for the following analytes that are acknowledged Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. - <input type="checkbox"/> This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.

Data Usability Assessment

	<p>(X) Reporting limits were above applicable WDNR NR 140 Enforcement Standards criteria for the following samples and analytes, unrelated to dilution and exclusive of Potentially Difficult Compounds:</p> <ul style="list-style-type: none"> - (X) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. <p>VOCs: 1,2-dibromo-3-chloro-propane and 1,2-dibromoethane in all groundwater samples</p> <p>Metals: zinc in samples MB-GW-MW-14, MB-GW-MW-19, MB-GW-TW-1, and MB-GW-TW-2 iron in sample MB-GW-MW-19</p> <ul style="list-style-type: none"> - () This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.
<p>Discuss laboratory performance criteria and data quality indicators utilized to assess overall <u>Analytical Accuracy</u> (continuing calibration, laboratory control spikes, etc.) and <u>Analytical Precision</u> (laboratory duplicates, laboratory control spike duplicates, etc.).</p>	<p>() Met all requirements and performance standards without qualification. (X) Did not meet all requirements and performance standards.</p> <p><u>Surrogate Recoveries:</u> (X) All criteria met</p> <p>() Recoveries for some samples and analytes were outside criteria, leading to potential bias in results as summarized below:</p> <p>() Poor recoveries led to some data rejection; see Section on Rejections.</p> <p><u>Method Blanks:</u> () No detections in blanks</p> <p>() The following analytes were detected in one or more blanks, but concentrations are well below Project Action Levels, and/or analytes were not detected in associated field samples:</p> <p>(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines (NFG) may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:</p>

Data Usability Assessment

Metals: Antimony and selenium were detected in the method blank associated with samples MB-GW-MW-14, MB-GW-MW-19, MB-GW-GP-12, MB-GW-TW-1, and MB-GW-TW-2 at levels greater than the method detection limit but below reporting limit. The results for selenium in samples MB-GW-MW-19, MB-GW-TW-1, and MB-GW-TW-2 may be biased high. The results for antimony and selenium in the other samples are nondetect and usable for site decision-making.

Laboratory Control Spikes/LCSD:

All criteria met

Recoveries and/or RPDs outside criteria for some analytes as described below; some bias may be present:

VOC:

The recovery of trichlorofluoromethane in the LCS associated with the groundwater samples in this SDG was above criteria. Since the results for trichlorofluoromethane are nondetect in all samples, the results are usable for site decision-making.

Poor recoveries led to some data rejection; see Section on Rejections.

Internal Standards:

Data not provided

All criteria met

Recoveries and/or retention times outside criteria for some analytes as described below; some bias may be present:

Poor recoveries led to some data rejection; see Section on Rejections.

GC/MS Tunes:

Data not provided

All criteria met

Analysis time and/or tune criteria not met as described below:

Calibrations:

Data not provided

All criteria met

Minimum response factor/correlation coefficient, %RPD, %recovery, and/or %D outside criteria for some compounds as described below; some bias may be present.

Minimum response factors do not meet criteria; the following data rejected:

Interference Check Standard (metals only):

Data not provided

All criteria met

Recoveries outside limits in ICSA and/or ICSAB

<u>Data Usability Assessment</u>	
	<p><u>MS/MSD:</u> (X) Site-specific MS/MSD performed; see Field Data Usability discussion () Site-specific MS/MSD not requested</p>
<p>Discuss performance criteria and data quality indicators utilized to assess overall <u>Field Data Usability</u> (sample preservation compliance, sample sub sampling/compositing, etc.)</p>	<p>(X) Sampling procedures as performed and sample containers used met all requirements and performance standards without qualification.</p> <p>() Variances from requirements and performance standards for sampling procedures or containers occurred. Discuss data usability implications here.</p> <p>(X) Sample preservation requirements and holding times met all requirements and performance standards without qualification.</p> <p>() Variances from requirements occurred. Discuss data usability implications here or reference where discussed elsewhere (e.g., under Rejections).</p> <p><u>Field QC Sample Evaluation</u></p> <p><u>Field Duplicate RPDs:</u> () Field duplicates not collected for this site.</p> <p>(X) RPD met criteria (that is, were $\leq 50\%$ for soil and $\leq 30\%$ for aqueous for detected analytes under the following circumstances):</p> <p style="padding-left: 40px;">Inorganics: both analytes detected at greater than 2x the RL Organics: both analytes detected at greater than 4x the RL</p> <p>VOCs: Field duplicate samples MB-GW-MW-20 and MB-GW-MW-20 Dup were collected for VOC analysis from this site. RPD criteria were met.</p> <p>() RPD exceeded limits for the following analytes:</p> <ul style="list-style-type: none"> - () All detections in both samples are well below applicable criteria; precision is acceptable for site decision-making: - () Detections in samples are near applicable criteria; precision is not acceptable for site decision-making: <p><u>Site-Specific MS/MSD:</u> () None collected</p> <p>(X) Collected and recoveries/RPDs within criteria</p> <p>Recoveries and RPDs within criteria for VOCs and PAHs.</p> <p>(X) Collected; poor precision and/or accuracy for some analytes indicates</p>

Data Usability Assessment

potential bias, as follows:

Metals:

MS /MSD recoveries were above criteria for calcium, magnesium, manganese, and sodium. Because the sample concentration was >4X the spiked amount, the results are not useful for spike recovery information and results are acceptable for site decision-making.

Metals:

MS and/or MSD recovery of potassium and silver was below criteria. Based on USEPA NFG, the positive and nondetect results for potassium and silver in samples MB-GW-MW-14, MB-GW-MW-19, MB-GW-GP-12, MB-GW-TW-1, and MB-GW-TW-2 may be biased low.

Metals:

MS recovery of barium was above criteria. Based on USEPA NFG, the positive results for barium in all groundwater samples, MB-GW-MW-14, MB-GW-MW-19, MB-GW-GP-12, MB-GW-TW-1, and MB-GW-TW-2, may be biased high.

() Collected; poor recoveries require data rejection as discussed in Section on Rejections.

Sample Duplicate

(X) Data not provided

() Laboratory duplicate analyzed and percent difference is within criteria.

() Laboratory duplicates analyzed and percent difference is outside criteria indicating potential bias.

Serial Dilution

(X) Data not provided

() Serial dilution criteria met.

() Serial dilution analyzed; poor precision noted for some analytes indicates possible matrix interference:

Trip Blanks:

() None collected

() Collected, no detections

(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

VOCs:

Methylene chloride was detected in the Trip Blank associated with the groundwaters in this SDG. The positive results for methylene chloride in samples MB-GW-MW-14, MB-GW-GP-12, MB-GW-MW-20, MB-GW-MW-

Data Usability Assessment

20 Dup, and MB-GW-TW-2 may be biased high. Based on NFG, since the results for methylene chloride in samples MB-GW-MW-19 and MB-GW-TW-1 are >2X the reporting limit, the results are usable for site decision-making.

Equipment Blanks:

() None collected

() Collected, no detections

(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA National Functional Guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

VOCs:

Toluene was detected in the equipment blank associated with these samples at levels greater than the method detection limit but below the reporting limit. Since the associated samples are nondetect, the results are usable for site decision-making.

VOCs:

Methylene chloride was detected in the equipment blank associated with these samples at levels greater than the reporting limit. The results for methylene chloride in samples MB-GW-MW-14, MB-GW-GP-12, MB-GW-MW-20, MB-GW-MW-20 Dup, and MB-GW-TW-2 may be biased high.

Based on NFG, since the results for methylene chloride in samples MB-GW-MW-19 and MB-GW-TW-1 are >2X the reporting limit, the results are usable for site decision-making.

Data Usability Assessment

Discuss any data rejected pursuant to USEPA NFG.

Provide **Technical Justification** if data rejections are applied to results that may meet USEPA NFG, but are still rejected based on professional judgment.

Provide **Technical Justification** if data are judged usable based on professional judgment, despite failure of USEPA NFG.

(X) No data rejected pursuant to USEPA National Functional Guidelines (NFG)

() Rejections are recommended based on the following USEPA National Functional Guidelines criteria:

() Some rejection decisions were made that are not fully in accordance with USEPA National Functional Guidelines. Affected samples/analytes and Technical Justification follow:

<p>Summarize analytical data usability for this Sample Delivery Group.</p>	<p>() All data are usable for project objectives. No potential for bias is indicated.</p> <p>(X) Data are usable for project objectives, with limitations as noted below:</p> <p><u>Sensitivity – Comparison to Standards:</u></p> <ul style="list-style-type: none">(X) Non-detects for the following analytes are not usable for direct comparison to applicable WDNR criteria, because reporting limits in one or more field samples exceeded criteria, and the analytes are Analytes of Interest for this site: <p>VOCs: 1,2-dibromo-3-chloro-propane and 1,2-dibromoethane in all groundwater samples</p> <p>Metals: zinc in samples MB-GW-MW-14, MB-GW-MW-19, MB-GW-TW-1, and MB-GW-TW-2 iron in sample MB-GW-MW-19</p> <p><u>Sensitivity – Blank Contamination</u></p> <ul style="list-style-type: none">(X) The following analytes were detected in one or more blanks and also in field samples. Data validation under USEPA NFG may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <p>VOCs: The positive results for methylene chloride in samples MB-GW-MW-14, MB-GW-GP-12, MB-GW-MW-20, MB-GW-MW-20 Dup, and MB-GW-TW-2 may be biased high.</p> <p>Metals: The results for selenium in samples MB-GW-MW-19, MB-GW-TW-1, and MB-GW-TW-2 may be biased high.</p> <p><u>Accuracy/Bias:</u></p> <ul style="list-style-type: none">() Bias is likely for the following Analytes of Interest and samples, based on surrogate recoveries outside criteria:() Bias is likely for the following Analytes of Interest and samples, based on calibrations outside criteria:(X) Bias is likely for the following Analytes of Interest in all samples, based on MS/MSD, LCS/LCSD, and/or LFB recoveries outside criteria:
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	<p>Metals: The positive and nondetect results for potassium and silver in all groundwater samples may be biased low.</p> <p>Metals: The positive results for barium in all groundwater samples may be biased high.</p> <ul style="list-style-type: none">- () Bias is likely for the following Analytes of Interest, based on interference check standard analysis:- () Bias is likely for the following Analytes of Interest, based on holding time criteria: <p><u>Precision:</u></p> <ul style="list-style-type: none">- () Precision does not meet RPD criteria for the following Analytes of Interest, based on review of field duplicate results:- () Precision does not meet % Difference criteria for the following Analytes of Interest, based on review of serial dilution results: <p>() Data for the following Analytes of Interest in the following samples are not usable because results were rejected due to limitations identified in the quality control review:</p>
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REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS

Purpose: To determine if data are unusable for supporting environmental investigation and remediation due to gross failure of quality control.

References:

USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organics Methods Data Review, June 2008

USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004

Definition of Rejected Data: The data are unusable (analyte/compound may or may not be present) due to gross failure of quality control criteria and cannot be used to support project objectives.

Inorganic Criteria for Rejection of Data: Applicable to metals, hexavalent chromium, cyanide, and other inorganic parameters.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries:
 - Aqueous samples only: recovery < 50%: reject all results for affected analyte (professional judgment commonly used if LCS < 50% but MS shows acceptable recovery to determine result as usable; professional judgment may be used to reject non-detected results only)
 - Soil: solid LCS or Standard Reference Material recoveries compared to vendor control limits: use professional judgment on rejection of data
- Matrix Spike (MS) Recovery: recovery < 30%: reject non-detected results for affected analyte in all associated samples in batch (up to 20 associated samples). Exception: Low recovery of hexavalent chromium in soils may be acceptable if supported by pH and ORP data which demonstrate reducing conditions
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

Organic Criteria for Rejection of Data Applicable to VOCs, SVOCs, ETPH, Pesticides, PCBs, and herbicides, and can also be applied to VPH/EPH.

- Holding Time (HT): “Gross” violation of HT; “gross” = greater than two times the allowable HT: reject all non-detected results
- Sample Preservation (VOCs only): Soil/sediment samples without methanol or water (alternative for low level VOCs only) preservation: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound
- Surrogate Recovery: recovery < 10%: reject associated non-detected results (see RCP method for compounds associated with surrogate by class), except if low recovery is due to necessary analytical dilution(s)

- Matrix Spike/Matrix Spike Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound in unspiked field sample only (i.e., field sample used for MS/MSD only)
- Calibrations: RRF < 0.05 (with no technical justification for RRF being lower): reject non-detected results for affected compound in all associated samples
- Internal Standards: Area Counts < 20% of associated Calibration Standard: reject associated non-detected results, depending on which compounds are quantitated with the affected internal standard
- Dual Column Precision: %D > 100% for single-component pesticides and herbicides: reject positive and non-detected results; % D > 500% for multicomponent pesticides and Aroclors: reject positive and non-detected results
- Endrin/DDT Breakdown: Breakdown >20%: reject non-detected results for endrin or DDT, whichever is affected
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

APPENDIX G

HISTORICAL SUBSURFACE LABORATORY DATA

TABLE 1
GROUNDWATER LABORATORY ANALYTICAL RESULTS
MIRRO PLANT
OSHKOSH, WISCONSIN
PROJECT NO. 200803466

Parameters	NR 140 Standards		GP-2 2/19/09	GP-3 2/19/09	GP-4 2/19/09	GP-5 2/19/09	GP-12 2/19/09	TB 2/19/09
	ES	PAL						
Location on Site								
Metals (µg/L)								
Aluminum, Dissolved	--	--	NA	NA	NA	<30	NA	NA
Arsenic, Dissolved	10	1.0	<0.32	NA	NA	<0.32	NA	NA
Barium, Dissolved	2000	400	NA	NA	NA	32	NA	NA
Cadmium, Dissolved	5.0	0.5	NA	NA	NA	<0.15	NA	NA
Chromium, Dissolved	100	10	<0.34	NA	NA	1.1	NA	NA
Lead, Dissolved	15	1.5	<0.13	NA	NA	<0.13	NA	NA
Selenium, Dissolved	50	10	NA	NA	NA	<0.36	NA	NA
Silver, Dissolved	50	10	NA	NA	NA	<0.13	NA	NA
Mercury, Dissolved	2.0	0.2	NA	NA	NA	<0.2	NA	NA
VOCs (µg/L)								
Benzene	5.0	0.5	0.43 "J"	<0.24	<60	0.24 "J"	2.26	<0.24
Bromobenzene	--	--	<0.44	<0.44	<110	<0.44	<0.44	<0.44
Bromodichloromethane	0.6	0.06	<0.3	<0.3	<75	<0.3	<0.3	0.85 "J"
Bromoform	4.4	0.44	<0.7	<0.7	<175	<0.7	<0.7	<0.7
tert-Butylbenzene	--	--	<0.32	<0.32	<80	<0.32	<0.32	<0.32
sec-Butylbenzene	--	--	<0.73	<0.73	<182.5	<0.73	<0.73	<0.73
n-Butylbenzene	--	--	<0.55	<0.55	<137.5	<0.55	<0.55	<0.55
Carbon tetrachloride	5.0	0.5	<0.3	<0.3	<75	<0.3	<0.3	<0.3
Chlorobenzene	--	--	<0.39	<0.39	<97.5	<0.39	<0.39	<0.39
Chloroethane	400	80	<0.97	<0.97	<242.5	<0.97	<0.97	<0.97
Chloroform	6.0	0.6	<0.47	<0.47	<117.5	<0.47	<0.47	2.62
Chloromethane	3.0	0.3	<0.5	<0.5	<125	<0.5	<0.5	<0.5
2-Chlorotoluene	--	--	<0.41	<0.41	<102.5	<0.41	<0.41	<0.41
4-Chlorotoluene	--	--	<0.3	<0.3	<75	<0.3	<0.3	<0.3
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.7	<1.7	<425	<1.7	<1.7	<1.7
Dibromochloromethane	60	6.0	<0.4	<0.4	<100	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	75	15	<0.74	<0.74	<185	<0.74	<0.74	<0.74
1,3-Dichlorobenzene	1250	125	<0.67	<0.67	<167.5	<0.67	<0.67	<0.67
1,2-Dichlorobenzene	600	60	<0.88	<0.88	<220	<0.88	<0.88	<0.88
Dichlorodifluoromethane	1000	200	<0.76	<0.76	<190	<0.76	<0.76	<0.76
1,2-Dichloroethane	5.0	0.5	<0.41	<0.41	<102.5	<0.41	<0.41	<0.41
1,1-Dichloroethane	850	85	0.80 "J"	<0.59	<147.5	<0.59	<0.59	<0.59
1,1-Dichloroethene	7.0	0.7	<0.5	<0.5	<125	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	70	7.0	16.2	<0.44	<110	<0.44	<0.44	<0.44
trans-1,2-Dichloroethene	100	20	18.6	<0.61	<152.5	<0.61	<0.61	<0.61
1,2-Dichloropropane	5.0	0.5	<0.27	<0.27	<67.5	<0.27	<0.27	<0.27
2,2-Dichloropropane	--	--	<0.53	<0.53	<132.5	<0.53	<0.53	<0.53
1,3-Dichloropropane	--	--	<0.4	<0.4	<100	<0.4	<0.4	<0.4
Di-isopropyl ether	--	--	<0.37	<0.37	<92.5	<0.37	<0.37	<0.37
1,2-Dibromoethane (EDB)	0.05	0.005	<0.76	<0.76	<190	<0.76	<0.76	<0.76
Ethylbenzene	700	140	<0.35	<0.35	<87.5	<0.35	<0.35	<0.35
Hexachlorobutadiene	--	--	<1.7	<1.7	<425	<1.7	<1.7	<1.7
Isopropylbenzene	--	--	<0.6	<0.6	<150	<0.6	<0.6	<0.6
p-Isopropyltoluene	--	--	<0.77	<0.77	<192.5	<0.77	<0.77	<0.77
Methylene chloride	5.0	0.5	<0.99	<0.99	<247.5	<0.99	<0.99	<0.99
Methyl-tert-butyl-ether	60	12	<0.7	<0.7	<175	<0.7	<0.7	<0.7
Naphthalene	40	8.0	<1.8	<1.8	<450	<1.8	<1.8	<1.8
n-Propylbenzene	--	--	<0.54	<0.54	<135	<0.54	<0.54	<0.54
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.5	<0.5	<125	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	70	7.0	<0.32	<0.32	<80	<0.32	<0.32	<0.32
Tetrachloroethene	5.0	0.5	<0.5	<0.5	<125	<0.5	<0.5	<0.5
Tetrahydrofuran	50	10	NA	NA	NA	NA	NA	NA
Toluene	1000	200	<0.39	<0.39	<97.5	<0.39	<0.39	<0.39
1,2,4-Trichlorobenzene	70	14	<1.1	<1.1	<275	<1.1	<1.1	<1.1
1,2,3-Trichlorobenzene	--	--	<1.6	<1.6	<400	<1.6	<1.6	<1.6
1,1,1-Trichloroethane	200	40	<0.28	<0.28	<70	<0.28	<0.28	<0.28
1,1,2-Trichloroethane	5.0	0.5	<0.39	<0.39	<97.5	<0.39	<0.39	<0.39
Trichloroethene (TCE)	5.0	0.5	6.9	<0.47	<117.5	<0.47	<0.47	<0.47
Trichlorofluoromethane	--	--	<0.81	<0.81	<202.5	<0.81	<0.81	<0.81
Total Trimethylbenzene ¹	480	96	<0.74	<0.74	<185	<0.74	<0.74	<0.74
Vinyl chloride	0.2	0.02	<0.2	<0.2	<50	<0.2	<0.2	<0.2
Total Xylene ²	10,000	1000	<1.67	<1.67	<417.5	<1.67	<1.67	<1.67
PAHs (µg/L)								
Acenaphthene	--	--	NA	<0.013	<13	<0.013	<0.13	NA
Acenaphthylene	--	--	NA	<0.015	128	<0.015	<0.15	NA
Anthracene	3000	600	NA	<0.014	65	<0.014	<0.14	NA
Benzo(a)anthracene	--	--	NA	<0.017	34 "J"	<0.017	<0.17	NA
Benzo(a)pyrene	0.2	0.02	NA	<0.016	<16	<0.016	<0.16	NA
Benzo(b)fluoranthene	0.2	0.02	NA	<0.01	23.5 "J"	<0.01	<0.1	NA
Benzo(ghi)perylene	--	--	NA	<0.02	<20	<0.02	<0.2	NA
Benzo(k)fluoranthene	--	--	NA	<0.023	<23	<0.023	<0.23	NA
Chrysene	0.2	0.02	NA	<0.02	187	<0.02	<0.2	NA
Dibenzo(a,h)anthracene	--	--	NA	<0.012	<12	<0.012	<0.12	NA
Fluoranthene	400	80	NA	<0.016	128	<0.016	<0.16	NA
Fluorene	400	80	NA	<0.015	146	<0.015	<0.15	NA
Indeno(1,2,3-cd)pyrene	--	--	NA	<0.013	<13	<0.013	<0.13	NA
1-Methylnaphthalene	--	--	NA	0.041 "J"	28.9 "J"	<0.018	<0.18	NA
2-Methylnaphthalene	--	--	NA	0.068	<16	0.022 "J"	<0.16	NA
Naphthalene	40	8.0	NA	0.029 "J"	<15	<0.015	1.22	NA
Phenanthrene	--	--	NA	<0.017	370	<0.017	<0.17	NA
Pyrene	250	50	NA	<0.016	116	<0.016	<0.16	NA

Notes:
VOCs = Volatile Organic Compounds
¹ Standards are for 1,2,4- and 1,3,5-Trimethylbenzene combined.
² Standards are for Total Xylenes (-m, -p and -o).
Bold value = NR 140 Enforcement Standard Exceedance
italic value = NR 140 WAC Preventive Action Limit Exceedance
-- No NR 140 ES or PAL established.
NA = Not analyzed
ND = Not detected

TABLE 2
SOIL ANALYTICAL RESULTS
MIRRO PLANT
OSHKOSH, WISCONSIN
PROJECT NO. 200803466

Parameters	Generic RCLs			NR 746 Soil Screening Levels	GP-1 S02 2/16/09	GP-2 S03 2/16/09	GP-3 S03 2/16/09	GP-4 S05 2/16/09	GP-5 S02 2/17/09	GP-6 S03 2/17/09	GP-8 S02 2/17/09	GP-9 S01 2/18/09	GP-10 S01 2/18/09	GP-11 S01 2/18/09	GP-12 S02 2/17/09
	Direct Contact Pathway		Groundwater Pathway												
	Non-Industrial	Industrial													
Metals (mg/kg)															
Aluminum				--	NA	NA	NA	NA	16,000	8,000	NA	NA	NA	NA	NA
Arsenic	0.039 ^E	1.6 ^E	0.58	--	NA	NA	NA	<1.4	6.40 ^F	<1.4	NA	NA	NA	NA	NA
Barium	3,130	2.4 x 10 ⁵	3,300	--	NA	NA	NA	8.1	230	32	NA	NA	NA	NA	NA
Cadmium	8.0 ^E	510 ^E	1.5	--	NA	NA	NA	0.054 ^J	0.8	0.068 ^J	NA	NA	NA	NA	NA
Chromium	18,000 ^E	1.53 x 10 ⁵	--	--	NA	6.0	NA	5.6	6.7	14	NA	NA	NA	NA	NA
Lead	50 ^F	500 ^F	--	--	NA	3.5	NA	2.1	10	4.4	NA	NA	NA	NA	NA
Selenium	78.2	5,110	1.0	--	NA	NA	NA	1.2 ^C	8.4 ^C	0.76	NA	NA	NA	NA	NA
Silver	78.2	5,110	1.67	--	NA	NA	NA	<0.16	<0.16	<0.16	NA	NA	NA	NA	NA
Mercury	--	--	0.42	--	NA	NA	NA	0.011 ^J	0.015 ^J	0.028	NA	NA	NA	NA	NA
VOCs (µg/kg)															
Benzene	1,100 ^E	52,000	5.5 ^E	8,500	<20	81 ^J	<20	<200	<20	<20	NA	<20	<20	27.3 ^J	<20
Bromobenzene	--	--	--	--	<34	<34	<34	<340	<34	<34	NA	<34	<34	<34	<34
Bromochloromethane	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	1,030	46,200	0.24	--	<16	<16	<16	<160	<16	<16	NA	<16	<16	<16	<16
Bromofom	8,090	362,000	2.0	--	<23	<23	<23	<230	<23	<23	NA	<23	<23	<23	<23
Bromomethane	21,900	1,430,000	4.0	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	--	--	--	--	<25	<25	<25	410 ^J	<25	<25	NA	<25	<25	48 ^J	<25
tert-Butylbenzene	--	--	--	--	<23	<23	<23	<230	<23	<23	NA	<23	<23	<23	<23
n-Butylbenzene	--	--	--	--	<35	<35	<35	1,910	<35	<35	NA	<35	86 ^J	284	<35
Carbon tetrachloride	491	22,000	5.0	--	<21	<21	<21	<210	<21	<21	NA	<21	<21	<21	<21
Chloroform	10,500	469,000	2.0	--	<50	<50	<50	<500	<50	<50	NA	<50	<50	<50	<50
Chlorobenzene	313,000	20,400,000	15.0	--	<16	<16	<16	<160	<16	<16	NA	<16	<16	<16	<16
Chlorodibromomethane	760	34,100	24	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	--	--	--	--	<23	<23	<23	<230	<23	<23	NA	<23	<23	<23	<23
Chloromethane	4,910	220,000	1.0	--	43 ^J	<43	<43	480 ^J	<43	<43	NA	67 ^J	63 ^J	72 ^J	<43
2-Chlorotoluene	313,000	20,400,000	--	--	<31	<31	<31	<310	<31	<31	NA	<31	<31	<31	<31
4-Chlorotoluene	--	--	--	--	<24	<24	<24	<240	<24	<24	NA	<24	<24	<24	<24
1,2-Dibromo-3-chloropropane	48	2,040	0.1	--	<37	<37	<37	<370	<37	<37	NA	<37	<37	<37	<37
1,2-Dibromomethane	31.9	1,430	0.033	--	<21	<21	<21	<210	<21	<21	NA	<21	<21	<21	<21
Dibromomethane	156,000	10,200,000	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	--	--	--	--	<41	<41	<41	<410	<41	<41	NA	<41	<41	<41	<41
1,4-Dichlorobenzene	2,660	119,000	110	--	<42	<42	<42	<420	<42	<42	NA	<42	<42	<42	<42
1,2-Dichloroethane	702 ^F	31,400	4.9 ^E	600	<24	<24	<24	<240	<24	<24	NA	<24	<24	<24	<24
1,2-Dichloroethene	1,410,000	92,000,000	1,800	--	<32	<32	<32	<320	<32	<32	NA	<32	<32	<32	<32
1,1-Dichloroethene	782,000	51,100,000	10	--	<27	<27	<27	<270	<27	<27	NA	<27	<27	<27	<27
cis-1,2-Dichloroethene	156,000	10,200,000	55	--	<24	<24	<24	<240	<24	<24	NA	<24	<24	<24	<24
Dichlorodifluoromethane	3,130,000	204,000,000	21,918	--	<33	<33	<33	<330	<33	<33	NA	<33	<33	<33	<33
trans-1,2-Dichloroethene	313,000	20,400,000	89	--	<29	<29	<29	<290	<29	<29	NA	<29	<29	<29	<29
1,2-Dichloropropane	939	42,100	1.9	--	<19	<19	<19	<190	<19	<19	NA	<19	<19	<19	<19
1,1-Dichloroethane	3,130,000	204,000,000	349	--	<22	<22	<22	<220	<22	<22	NA	<22	<22	<22	<22
1,3-Dichloropropane	313,000	20,400,000	--	--	<21	<21	<21	<210	<21	<21	NA	<21	<21	<21	<21
2,2-Dichloropropane	--	--	--	--	<115	<115	<115	<1,150	<115	<115	NA	<115	<115	<115	<115
1,1-Dichloropropane	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropane	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropane	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diisopropyl ether	6,250,000	409,000,000	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	1,560,000	102,000,000	2,900 ^E	4,600	<16	37 ^J	<16	1,050	<16	<16	NA	<16	23.2 ^J	100	<16
Trichlorofluoromethane	4,690,000	307,000,000	9,264	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	819	38,700	--	--	<50	<50	<50	<500	<50	<50	NA	<50	<50	<50	<50
Isopropylbenzene	--	--	--	--	<30	<30	<30	<300	<30	<30	NA	<30	<30	40 ^J	<30
p-Isopropyltoluene	--	--	--	--	<30	<30	<30	<300	<30	<30	NA	<30	241	41 ^J	<30
Methylene chloride	8,520	382,000	1.6	--	<44	<44	<44	<440	<44	<44	NA	<44	<44	<44	<44
Methyl-tert-butyl-ether	--	--	--	--	<23	<23	<23	<230	<23	<23	NA	<23	<23	<23	<23
Naphthalene	60,000 ^F	4,000,000 ^F	400 ^F	2,700	<117	<117	<117	14,200 ^B	<117	<117	NA	<117	252 ^J	840 ^C	<117
n-Propylbenzene	--	--	--	--	<29	<29	<29	810 ^J	<29	<29	NA	<29	39 ^J	208	<29
Styrene	3,130,000	204,000,000	370	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	319	14,300	0.09	--	<25	<25	<25	<2,500	<25	<25	NA	<25	<25	<25	<25
1,1,1,2-Tetrachloroethane	2,460	110,000	157	--	<27	<27	<27	<2,700	<27	<27	NA	<27	<27	<27	<27
Tetrachloroethene	1,230	55,000	4.1	--	<18	<18	<18	<180	<18	<18	NA	<18	27.8 ^J	340 ^C	<18
Toluene	1,250,000	81,800,000	1,500 ^E	38,000	<23	131	<23	<230	37 ^J	<23	NA	28.8 ^J	290	152	<23
1,2,3-Trichlorobenzene	--	--	--	--	<87	<87	<87	<870	<87	<87	NA	<87	<87	<87	<87
1,2,4-Trichlorobenzene	156,000	10,200,000	540	--	<53	<53	<53	<530	<53	<53	NA	<53	<53	<53	<53
1,1,1-Trichloroethane	3,130,000	204,000,000	260	--	<27	<27	<27	<270	121	<27	NA	<27	<27	30.1 ^J	<27
1,1,2-Trichloroethane	1,120	50,200	1.9	--	<30	<30	<30	<300	<30	<30	NA	<30	<30	<30	<30
1,2,4-Trimethylbenzene ¹	782,000	51,100,000	7573	--	<53	41 ^J	<20	6,500	22.3 ^J	<20	NA	28.8 ^J	150	740	<53
Trichloroethane	160	7,150	3.7	--	<20	<20	<20	<200	8,100 ^A	40 ^J	NA	<20	20.4 ^J	1,260 ^A	<20
1,2,3-Trichloropropane	81.2	409	0.0076	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene ¹	782,000	51,100,000	3520	--	<24	<24	<24	1,810	26.8 ^J	<24	NA	<24	153	154	<24
Vinyl chloride	42.6	1,810	0.13	--	<17	<17	<17	<170	<17	<17	NA	<17	<17	<17	<17
Xylenes, total	3,130,000	204,000,000	4,100 ^E	42,000	<48	153 ^J	<48	3,490	44 ^J	<48	NA	<48	162 ^J	578	<48
PAHs (µg/kg) ^F															
Acenaphthene	800,000	60,000,000	38,000	--	<19	<19	<19	<19	<19	<19	NA	<19	<19	<19	<19
Acenaphthylene	18,000	390,000	700	--	<11	<11	<11	124	<11	28.9 ^J	NA	<11	<11	67	<11
Anthracene	5,000,000	300,000,000	3,000,000	--	<19	<19	<19	137	<19	21.3 ^J	NA	<19	39 ^J	140	<19
Benzo(a)anthracene	8.8	3.90	17,000	--	<16	<16	<16	49 ^J	19.9 ^J	20 ^J	NA	<16	330 ^A	312 ^A	<16
Benzo(a)pyrene	8.8	390	48,000												