

Technical Assistance and Environmental Liability Clarification Request Remediation and Redevelopment Program

Form 4400-237 (12/05)

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Section 1. Recipient of the Technical Assistance, Liability Clarification or Agreement from the Department

This is the person who is requesting that his or her liability be clarified or who is seeking technical assistance or a specialized agreement and is identified as the applicant in Section 7. DNR will address its response to this person.

Name John Gryzbowski		Organization/Business Name PDM Bridge	
Mailing Address 2800 Melby Street		City Eau Claire	State ZIP Code WI 54703
Telephone Number	Fax Number	E-Mail Address	

The applicant listed above: (select all that apply) Is currently the owner Is renting or leasing the property
 Is considering acquiring the property Has mortgagee interest in the property Is considering selling the property
 Other. Explain the status of the property with respect to the applicant: _____

Contact Information (to be contacted with questions about this request)

Contact Name Donald P. Gallo, Esq.		Organization/Business Name Reinhart Boerner Van Deuren	
Telephone Number 262-951-4555		E-Mail Address dgallo@reinhartlaw.com	

Environmental Consultant (if applicable)

Consultant Name		Organization Name	
Mailing Address		City	State ZIP Code
Telephone Number	Fax Number	E-Mail Address	

Attorney (if applicable)

Attorney Name See contact information		Organization Name	
Mailing Address		City	State ZIP Code
Telephone Number	Fax Number	E-Mail Address	

Section 2. Property Information

BRRTS No. (if known)	FID No. (if known) 609077590	Property Name PDM Bridge LLC	
Street Address 2800 Melby St.		City Eau Claire	State ZIP Code WI 54703
County Chippewa	Municipality where the property is located: <input checked="" type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village of _____	Property is composed of: <input checked="" type="checkbox"/> a single tax parcel <input type="checkbox"/> multiple tax parcels	Property Size 60 Acres

Is a response needed by a specific date? (e.g., property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

No Yes - Date: **ASAP** Reason: _____

Is this property currently enrolled in or undergoing cleanup actions under the Voluntary Party Liability Exemption (VPLE) program?

No. Include the fee that is required for your request in Section 3, 4 or 5.

Yes. If yes, is the recipient listed above also the voluntary party who is currently enrolled in the VPLE program at the property?

No. Include the fee that is listed for your request in Section 3, 4 or 5.

Yes. Do not include a separate fee. This request will be billed separately through the VPLE Program.

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Fill out the information in Section 3, 4 or 5, which corresponds with the type of request: technical assistance, liability clarification, or specialized agreement.

Section 3. Request for Technical Assistance

Select the type of technical assistance requested:

- No Further Response Required (Immediate Actions) – NR 708.09 – **Include a fee of \$250. Use for a written response to an immediate action after a discharge or discovery of hazardous substance. Generally, these are one-time spill events.**
- No Further Site Investigation Necessary – s. NR 716.05 – **Include a fee of \$500. Use where an environmental discharge was found but no DNR-approved site investigation or clean-up work was required. This is not a closure letter.**
- Review of Site Investigation Workplan – NR 716.09 – **Include a fee of \$500.**
- Review of Site Investigation Report – NR 716.09 – **Include a fee of \$750.**
- Approval of a Site Specific Soil Cleanup Standard – NR 720.19 Reports – **Include a fee of \$750.**
- Review of a Remedial Action Options Report – NR 722.07 – **Include a fee of \$750.**
- Review of a Remedial Design Report – NR 724.09 – **Include a fee of \$750.**
- Review of a Construction Documentation Report – NR 724.17 – **Include a fee of \$250.**
- Review of a Long-term Monitoring Plan – NR 724.17 – **Include a fee of \$300.**
- Review of Phase I and Phase II Environmental Assessment and other supporting documentation to qualify for the Wisconsin Brownfields Insurance Program (WBIP) – **Include a fee of \$500.**
- Other Technical Assistance – s. 292.55, Wis. Stats.
 - No Further Site Investigation Necessary – s. NR 716.05 – **Include a fee of \$500. Use where an environmental discharge was found but no DNR-approved site investigation or clean-up work was required. This is not a closure letter.**
 - Review of Phase I and Phase II Environmental Assessment and other supporting documentation to qualify for the Wisconsin Brownfields Insurance Program (WBIP) – **Include a fee of \$500.**
 - Other Technical Assistance – **Include a fee of \$500.** Explain your request below or in an attachment.

Skip Sections 4 and 5 if the technical assistance you are requesting is listed above. Complete Sections 6 and 7 of this form.

Section 4. Request for Liability Clarification

Select the type of liability clarification requested. Use the available space given or attach information, explanations, or specific questions that you need answered in DNR's reply. Complete Sections 6 and 7 of this form.

- Lender liability exemption clarification – s. 292.21, Wis. Stats. – **Include a fee of \$500.**
Provide the following documentation: (1) owner status; (2) an environmental assessment, in accordance with s. 292.21, Wis. Stats., if the property has been acquired by the lender; (3) the date the environmental assessment was conducted; (4) the date of property acquisition; and (5) the means by which the property was acquired.
- Clarify the liability associated with a "closed" property – s. 292.55, Wis. Stats. – **Include a fee of \$500.**
Include a copy of any closure determinations from state agencies other than DNR.
- Clarification of local governmental unit (LGU) liability exemption – s. 292.11(9)(e), Wis. Stats. – **Include a fee of \$500, a summary of the environmental liability clarification being requested, and the following:**
 - (1) current and proposed ownership status of the property;
 - (2) date and means by which the property was acquired by the LGU, where applicable;
 - (3) summary of current uses of the property; and
 - (4) intended or potential use(s) of the property.

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Section 4. Request for Liability Clarification (continued)

- Lease liability clarification – s. 292.55, Wis. Stats. – **Include a fee of \$500 for a single property, or \$1000 for multiple properties and the information listed below:**
- (1) a copy of the proposed lease;
 - (2) the name of the current owner of the property and the person who will lease the property;
 - (3) a description of the lease holder's association with any persons who have possession, control, or caused a discharge of a hazardous substance on the property;
 - (4) map(s) showing the property location and any suspected or known sources of contamination detected on the property;
 - (5) a description of the intended use of the property by the lease holder, with reference to the maps to indicate which areas will be used. Explain how the use will not interfere with any future investigation or cleanup at the property; and
 - (6) all reports or investigations (e.g. Phase I and Phase II Environmental Assessment Reports) that identify areas of the property where a discharge has occurred. For any environmental data submitted include:
 - a) property map(s) showing sampling locations for all data submitted;
 - b) interpretation of data signed by a qualified environmental professional;
 - c) soil boring logs;
 - d) groundwater monitoring well construction, development and sampling logs;
 - e) soil and groundwater data reports from certified laboratories;
 - f) survey information for groundwater elevations;
 - g) chain of custody forms for all samples; and
 - h) description of sample collection methods.

- General or other environmental liability clarification – s. 292.55, Wis. Stats. – Explain your request below. **Include a fee of \$500 and an adequate summary of relevant environmental work to date.**

Use this space or attach additional sheets to provide necessary information, explanations or specific questions to be answered by the DNR.

Phase I and Phase II performed by Ayres Associates in 2001 was submitted with release notification on 7/27/2006. Have discussed issues with Loven Brumberg.

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Section 5. Request for a Specialized Agreement

Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: dnr.wi.gov/org/aw/rr/financial/del_taxes.html.

- Tax cancellation agreement – s. 75.105(2)(d), Wis. Stats. – **Include a fee of \$500, Phase I and II Environmental Assessment Reports, and a draft agreement.**
- Agreement for assignment of tax foreclosure judgment – s. 75.106, Wis. Stats. – **Include a fee of \$500, Phase I and II Environmental Assessment Reports, and a draft agreement.**
- Negotiated agreement – Enforceable contract for non-emergency remediation – s. 292.11(7)(d) and (e), Wis. Stats. – **Include a fee of \$1000. Include a draft schedule for remediation and provide the name, mailing address, phone and email for each party to the agreement.**

Section 6. Other Information Submitted

Identify all materials that are included with this request.

Include one copy of any document from the Departments of Commerce; Agriculture, Trade and Consumer Protection (ATCP); or other agency files that you want the Department to review as part of this request. The applicant is responsible for contacting Commerce or DATCP to obtain appropriate reports or information.

- Phase I Environmental Site Assessment Report — Date: _____
- Phase II Environmental Site Assessment Report — Date: Nov 2001
- Map of the property See phase II
- Analytical results of the following sampled media: Select all that apply and include date of collection.
 - Groundwater
 - Soil
 - Sediment
 - Other medium – Describe: _____
- Date of Collection: See Phase II
- A copy of the closure letter and submittal materials
- Draft tax cancellation agreement
- Draft agreement for assignment of tax foreclosure judgment
- Other report(s) or information – Describe: _____

For property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

- Yes – Date (if known): 7/27/06
- No

Note: The Fax Notification for Hazardous Substance Discharge (non-emergency) form is available at: dnr.wi.gov/org/aw/rr/archives/pubs/4400-225.pdf.

Section 7. Certification by the Person who completed this form

- I am the applicant and I prepared this request.
- I prepared this request for: John Gryzbowski
Applicant Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge.

Signature <u>Donald P. Halb</u>	Date Signed <u>8/16/06</u>
Title <u>legal counsel on behalf of PDM Bridge</u>	Telephone Number <u>(262) 951-4555</u>

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Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver the completed request, supporting materials, and fee to the region where the property is located. Contact the individual listed with any questions about this form or a specific situation involving contaminated property.

DNR NORTHERN REGION

Attn: RR Program Assistant
Department of Natural Resources
107 Sutliff Avenue
Rhineland WI 54501
John Sager (715) 623-4190 Ext. 3125

DNR NORTHEAST REGION

Attn: RR Program Assistant
Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313
Annette Weissbach (920) 662-5165

DNR SOUTH CENTRAL REGION

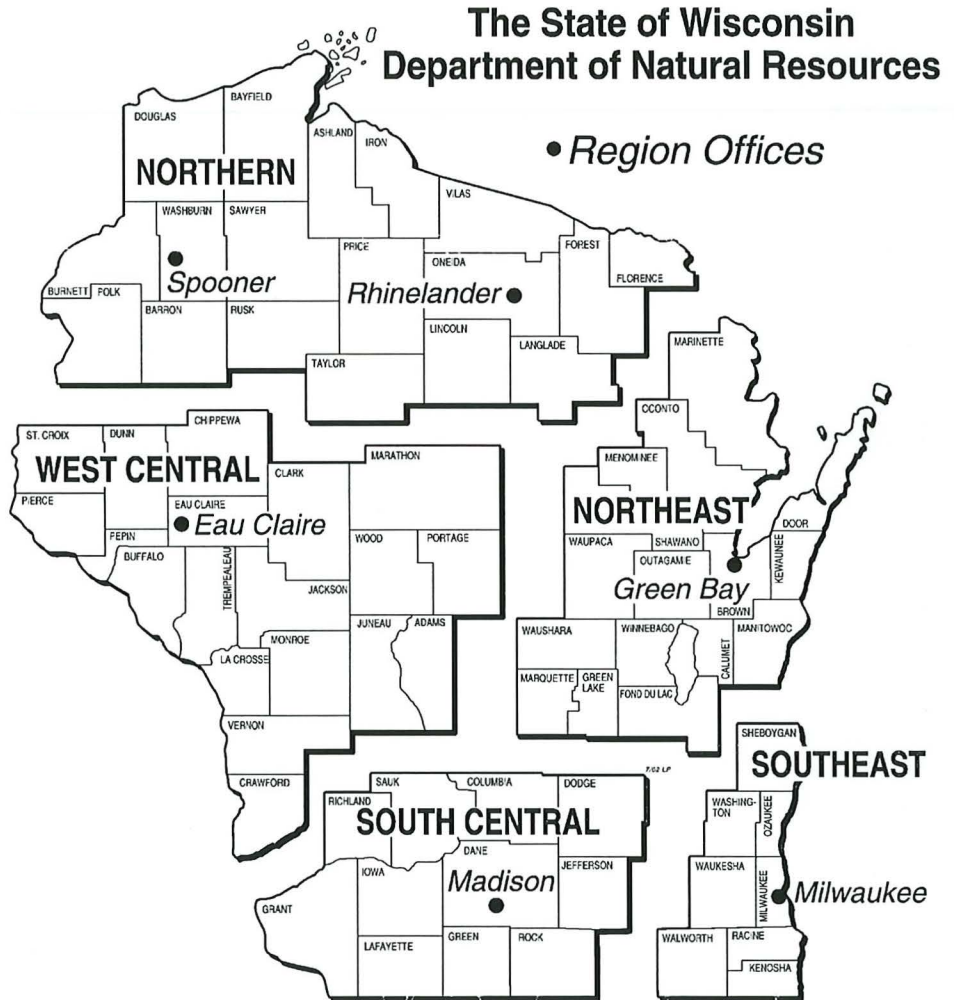
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711
Mike Schmoller (608) 275-3303

DNR SOUTHEAST REGION

Attn: RR Program Assistant
Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee WI 53212
Margaret Brunette (414) 263-8557

DNR WEST CENTRAL REGION

Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702
Loren Brumberg (715) 839-3770



DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS FID No. (if used)
DNR Reviewer		Comments	
Fee Enclosed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Fee Amount \$	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		

Phase II Environmental Site Assessment

**PDM Bridge Site
2800 Melby Street
Eau Claire, Wisconsin**



Prepared for:

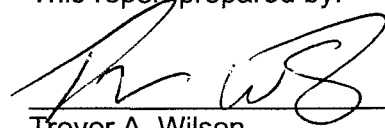
**Pitt-Des Moines, Inc.
1450 Lake Robbins Drive, Suite 400
The Woodlands, Texas 77380**

November 2001

Phase II Environmental Site Assessment

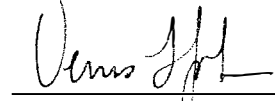
**PDM Bridge Site
2800 Melby Street
Eau Claire, Wisconsin**

This report prepared by:

 11/29/01

Trevor A. Wilson
Hydrogeologist

This report reviewed by:

 11/29/01

Dennis L. Johnson, P.E.
Manager—Environmental Services

AYRES
ASSOCIATES

Engineers/Architects/Scientists/Surveyors

3433 Oakwood Hills Parkway
P.O. Box 1590
Eau Claire, WI 54702-1590
(715) 834-3161, FAX (715) 831-7500

Ayres Associates Project No. 10-1308.40
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Executive Summary

Friedman Fleischer & Lowe, LLC (FFL Partners), a potential buyer of substantially all of the assets of Pitt-Des Moines, Inc.'s (PDM) "bridge business" including PDM's facility located at 2800 Melby Street in Eau Claire, Wisconsin (Site), retained Ayres Associates to conduct a Phase I Environmental Site Assessment (ESA) of the Site. A Phase I ESA report was completed in August 2001. That report, addressed to FFL Partners, noted the presence at the Site of certain recognized environmental conditions (RECs), as defined in the American Society for Testing and Materials (ASTM) *E1527-00 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

In response to certain of the findings of the Phase I ESA and as part of the due diligence process, FFL requested that Ayres Associates be permitted to conduct a Phase II ESA investigation. Ayres Associates was retained to proceed with the Phase II ESA investigation. Prior to the initiation of such investigation, PDM agreed that in the event the sale of the "bridge business" to FFL was not consummated for any reason PDM would pay for the costs associated with the performance of the Phase II ESA investigation as well as the preparation of the report documenting such investigation provided that such report be addressed to PDM rather than to FFL. After Ayres Associates completed its Phase II ESA investigation of the Site, the negotiations between PDM and FFL were terminated.

Scope of Services

Phase II ESA services included investigating a former paint disposal pit, surface staining in an aboveground storage tank area, and soil quality in the area of shot blasting material disposal.

On October 2, 2001, Ayres Associates installed four soil borings and collected surface soil samples to evaluate soil quality in the paint disposal pit, aboveground storage tank, and shot blasting material disposal areas. Soil samples were submitted to a Wisconsin-certified laboratory for analysis of various organic and inorganic parameters. Field observations, analytical parameters, and test results are described in detail in this report.

Conclusions

Based on Phase II ESA field sampling and laboratory analysis, Ayres Associates makes the following conclusions:

Paint Waste Disposal Area

No detects of VOCs or metals in excess of Wisconsin Administrative Code NR 720 Soil Cleanup Standards for industrial sites were in soil samples from B1 and B2. Based on this testing and on documentation of paint waste removal completed in 1987 (as discussed in the Ayres Associates' August 2001 Phase I ESA for this Site), this area appears to have been remediated and no further investigation or remediation is warranted.

AST Area

In the area of the gasoline and diesel aboveground storage tanks, DRO was detected at a concentration of 22 mg/kg in B4-7. This detect is below the Wisconsin Administrative Code NR 720 Soil Cleanup Standards for the residual contaminant level standard of 100 mg/kg. Because

the other test results at B3 and B4 were low to no detect, there is no indication that contamination is extensive.

Shot Blasting Material Pile

Certain RCRA metals (specifically, barium, cadmium, chromium, lead and selenium) were detected in the sample taken, but no Wisconsin Administrative Code NR 720 Soil Cleanup Standards for industrial sites were exceeded, and based on TCLP testing the shot blasting materials are not hazardous under Wisconsin Administrative Code NR 605.

Introduction

Friedman Fleischer & Lowe, LLC (FFL Partners), a potential buyer of substantially all of the assets of Pitt-Des Moines, Inc.'s (PDM) "bridge business" including PDM's facility located at 2800 Melby Street in Eau Claire, Wisconsin (Site), retained Ayres Associates to conduct a Phase I Environmental Site Assessment (ESA) of the Site. A Phase I ESA report was completed in August 2001. That report, addressed to FFL Partners, noted the presence at the Site of certain recognized environmental conditions (RECs), as defined in the American Society for Testing and Materials (ASTM) *E1527-00 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

In response to certain of the findings of the Phase I ESA and as part of the due diligence process, FFL requested that Ayres Associates be permitted to conduct a Phase II ESA investigation. Ayres Associates was retained to proceed with the Phase II ESA investigation. Prior to the initiation of such investigation, PDM agreed that in the event the sale of the "bridge business" to FFL was not consummated for any reason, PDM would pay for the costs associated with the performance of the Phase II ESA investigation as well as the preparation of the report documenting such investigation provided that such report be addressed to PDM rather than to FFL. After Ayres Associates completed its Phase II ESA investigation of the Site, the negotiations between PDM and FFL were terminated. Figure 1 shows the regional location of this Site. Figure 2 is a site plan.

Phase II ESA Scope of Services

Ayres Associates provided the following Phase II ESA services:

1. Install two soil probes in the paint dumping areas (one in each of the dumping areas) and analyze two soil samples per probe for volatile organic compounds (VOCs) and total metals analysis of the eight RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver)

The estimated depth for each probe is 20 feet.

2. Install two soil probes in the refueling area of the two aboveground storage tanks (ASTs) and analyze two soil samples per probe for gasoline range organics (GRO), diesel range organics (DRO), and petroleum volatile organic compounds (PVOCs)

The estimated depth for each probe is 20 feet.

3. Install hand auger borings in the shot blasting material disposal area (northwest area of Site) and analyze one soil sample for RCRA metals (eight total)
4. Collect one background soil sample from an undisturbed area of the Site and analyze for RCRA metals (eight total)

Fieldwork

General

Trevor Wilson of Ayres Associates conducted soil ~~and ground water~~ sampling at the Site on October 2, 2001. Geiss, Inc., of Merrill, Wisconsin, installed four soil probes. Weather conditions were partly cloudy and the temperature was in the 70s F. The PDM maintenance

supervisor accompanied Ayres Associates to the general location of the paint dumping area and explained any underground utilities near the ASTs. Figure 3 is a map that shows the location of soil probes and surface samples. Field procedures used for obtaining headspace and laboratory soil samples are summarized in Appendix A. Samples submitted for analysis were either at the boring terminus or the sample with the highest flame ionization detector (FID) field reading. Soil boring logs are in Appendix B and FID readings are indicated on the logs.

Boring Descriptions

Borings B1 and B2: Borings B1 and B2 are located in the former paint dumping area. Samples were collected continuously to 20 feet. One sample each from a depth of 4 to 6 feet below ground surface (bgs) and from a depth of 18 to 20 feet bgs at B1 was submitted for analysis. Samples from a depth of 6 to 8 feet bgs and 18 to 20 feet bgs at B2 were submitted for analysis. Samples were analyzed for VOCs using Method 8260 and total metals for the eight RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver).

Borings B3 and B4: Borings B3 and B4 are located near the AST refueling area. Samples were collected continuously to 20 feet. Based on FID readings, one sample each from a depth of 12 to 14 feet bgs and from a depth of 18 to 20 feet bgs at B3 was submitted for analysis. One sample from a depth of 12 to 14 feet bgs and from a depth of 18 to 20 feet bgs at B4 was submitted for analysis. Samples were analyzed for GRO, DRO, and PVOCs.

Hand Auger HA1: One hand auger boring was placed in the shot blasting material disposal area (northwest area of Site). One sample was collected from the shot blast material. The hand auger was advanced 3 feet where native soil was encountered. The sample was analyzed for total metals (eight RCRA metals) and the toxicity characteristic leach procedure (TCLP) (lead, chromium, and barium).

Background: One hand auger boring was placed near the northwest corner along the property border to define background total metal concentrations. One sample was collected from this area at a depth of 1.5 feet bgs. The sample was analyzed for total metals for the eight RCRA metals.

Analytical Results

Soil samples were submitted for analysis to CT Laboratory in Baraboo, Wisconsin (Wisconsin Laboratory Certification No. 15-7066030). Laboratory reports and chain-of-custody forms are in Appendix C. Soil sampling results are in Table 1. This table lists laboratory analysis results and regulatory standards where applicable. Excerpts from various Wisconsin Administrative Codes that establish applicable soil and ground water standards (NR 140 – Groundwater Quality and NR 720 – Soil Cleanup Standards) and those relating to hazardous waste characterization (NR 605 – Identification and Listing of Hazardous Waste) are in Appendix D for reference. Analytical results are discussed as follows:

Borings B1 and B2: The samples collected at B1 contained detectable amounts of barium (52.3 mg/kg), cadmium (0.73 mg/kg), chromium (14.6 mg/kg), lead (8.7 mg/kg), selenium (0.65 mg/kg), acetone (0.15 mg/kg), and methylene chloride (0.024 mg/kg) from 4 to 6 feet bgs. Detectable amounts of barium (12.5 mg/kg), cadmium (0.024 mg/kg), chromium (4.7 mg/kg), lead (0.9 mg/kg), selenium (0.44 mg/kg), acetone (0.13 mg/kg), and methylene chloride (0.027 mg/kg) were also noted from 18 to 20 feet bgs. No Wisconsin Administrative Code NR 720 Soil

Cleanup Standards for industrial sites were exceeded for metals analysis. Detects of VOCs were below the limits of quantitation (LOQ) and do not exceed any Wisconsin standards.

The samples collected at B2 contained detectable amounts of barium (29.4 mg/kg), cadmium (0.05 mg/kg), chromium (10.6 mg/kg), lead (4.8 mg/kg), selenium (0.71 mg/kg), acetone (0.28 mg/kg), methylene chloride (0.037), and trichlorofluoromethane (0.032 mg/kg) from 6 to 8 feet bgs. Detectable amounts of barium (12.6 mg/kg), cadmium (0.025 mg/kg), chromium (6.4 mg/kg), lead (0.89 mg/kg), and selenium (0.56 mg/kg) were also noted from 18 to 20 feet bgs. No standards were exceeded.

Acetone and methylene chloride detected in the method blank were most likely associated with a laboratory source.

Borings B3 and B4: The sample collected at B3 contained detectable amounts of GRO (2.1 mg/kg) and 1,2,4-trimethylbenzene (0.046 mg/kg) from a depth of 12 to 14 feet bgs. No contaminants were detected from 18 to 20 feet bgs at B3.

Boring B4 contained detectable amounts of DRO (22 mg/kg) and GRO (4.8 mg/kg) from 12 to 14 feet bgs. The DRO concentration is above the reporting guideline of 10 mg/kg; however, it is less than the Wisconsin Administrative Code NR 720 Soil Cleanup Standards for industrial sites of 100 mg/kg. No contaminants were detected from 18 to 20 feet bgs at B4.

Hand Auger HA1 (Shot): The sample collected at HA1 contained detectable amounts of barium (2,430 mg/kg), cadmium (0.51 mg/kg), chromium (37 mg/kg), lead (3.3 mg/kg), and selenium (0.72 mg/kg) from 0 to 2 feet bgs. No NR 720 Soil Cleanup Standards for industrial sites were exceeded. A TCLP test was also completed for barium, lead, and chromium in this sample. TCLP standards established in NR 605 for these metals were not exceeded.

Background: The sample collected for a background sample to represent undisturbed soil contained detectable amounts of arsenic (1.2 mg/kg), barium (58.8 mg/kg), cadmium (0.094 mg/kg), chromium (12.8 mg/kg), lead (12.3 mg/kg) and selenium (0.0062 mg/kg) from 0 to 2 feet bgs. No NR 720 Soil Cleanup Standards for industrial sites were exceeded.

Conclusions

Based on Phase II ESA field sampling and laboratory analysis, Ayres Associates makes the following conclusions:

Paint Waste Disposal Area

No detects of VOCs or metals in excess of Wisconsin Administrative Code NR 720 Soil Cleanup Standards for industrial sites were in soil samples from B1 and B2. Based on this testing and on documentation of paint waste removal completed in 1987 (as discussed in the Ayres Associates' August 2001 Phase I ESA for this Site), this area appears to have been remediated and no further investigation or remediation is warranted.

AST Area

In the area of the gasoline and diesel aboveground storage tanks, DRO was detected at a concentration of 22 mg/kg in B4-7. This detect is below the Wisconsin Administrative Code NR 720 Soil Cleanup Standards for the residual contaminant level standard of 100 mg/kg. Because

the other test results at B3 and B4 were low to no detect, there is no indication that contamination is extensive.

Shot Blasting Material Pile

Certain RCRA metals (specifically, barium, cadmium, chromium, lead and selenium) were detected in the sample taken, but no Wisconsin Administrative Code NR 720 Soil Cleanup Standards for industrial sites were exceeded, and based on TCLP testing the shot blasting materials are not hazardous under Wisconsin Administrative Code NR 605.

Standard of Care

This Phase II ESA report is based on data obtained by Ayres Associates and our contractors through placement of soil borings and collection and analysis of soil samples. Soil qualities reported apply only to the specific locations shown and the times at which the work was performed. Variations in the sample results may occur if the samples were collected at other locations on the Site.

Conclusions in this report represent our professional engineering judgment in interpreting these data, as well as data obtained from reports prepared by others relative to soil and ground water conditions in the study area. Data, computations, and correspondence supporting the information presented in this report are on file at Ayres Associates. It is our opinion that the information and documents concerning the Site are reliable. However, we cannot warrant or guarantee in any way that the information provided is complete or accurate.

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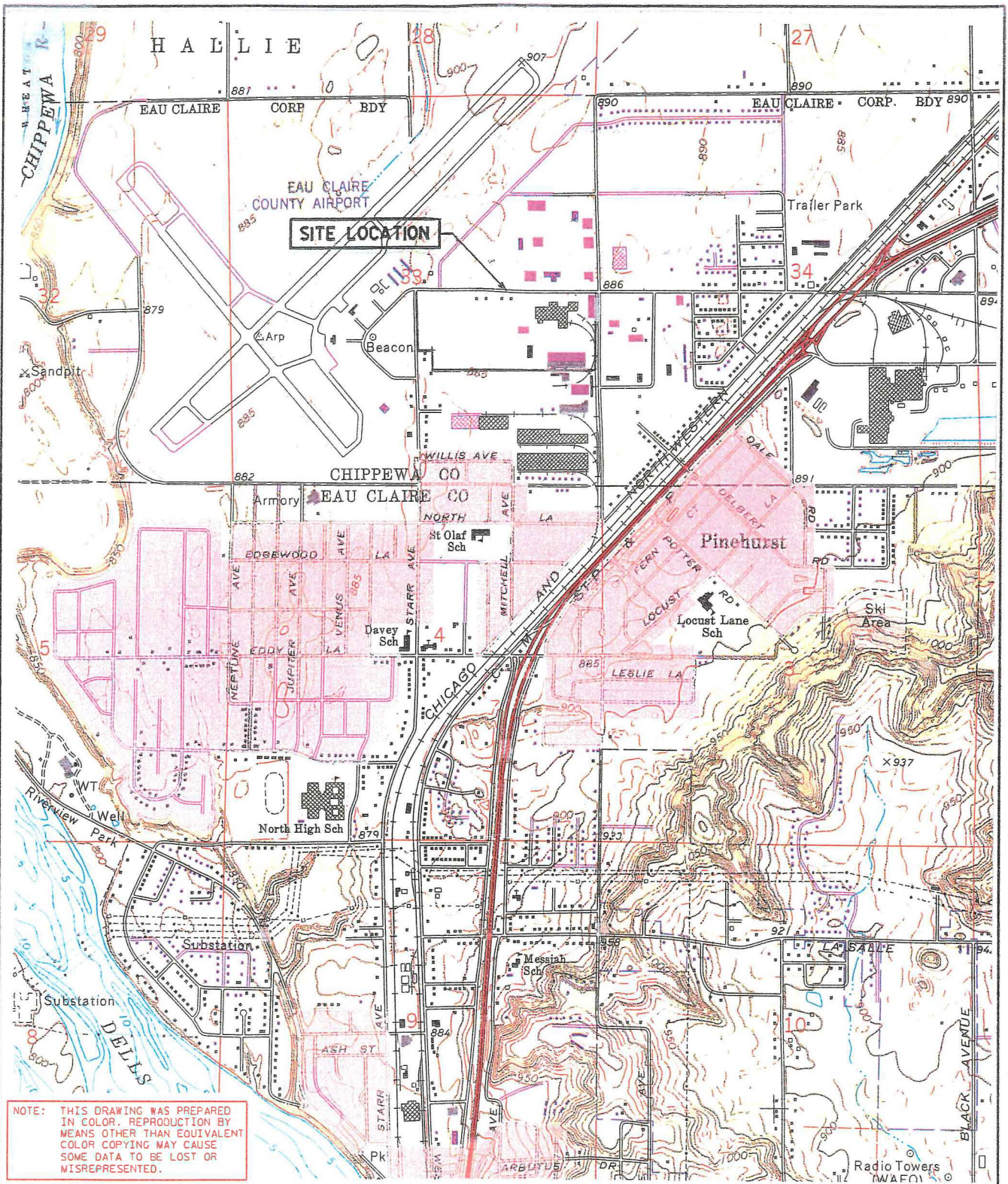
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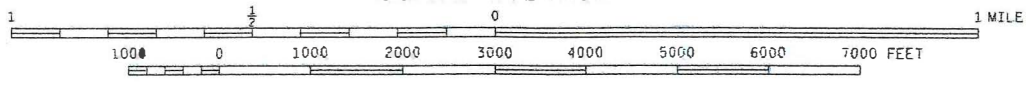
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NOTE: THIS DRAWING WAS PREPARED IN COLOR. REPRODUCTION BY MEANS OTHER THAN EQUIVALENT COLOR COPYING MAY CAUSE SOME DATA TO BE LOST OR MISREPRESENTED.

USGS MAP: EAU CLAIRE EAST QUADRANGLE
1972 (PHOTOREVISED 1982)

SCALE 1:24000



PHASE II ENVIRONMENTAL
SITE ASSESSMENT
PDM BRIDGE
2800 MELBY STREET
EAU CLAIRE, WISCONSIN

DRN. BY: JGS
CHK. BY: JAW
DATE: OCT 2001



LOCATION MAP

FIGURE
1

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DGN LEVEL

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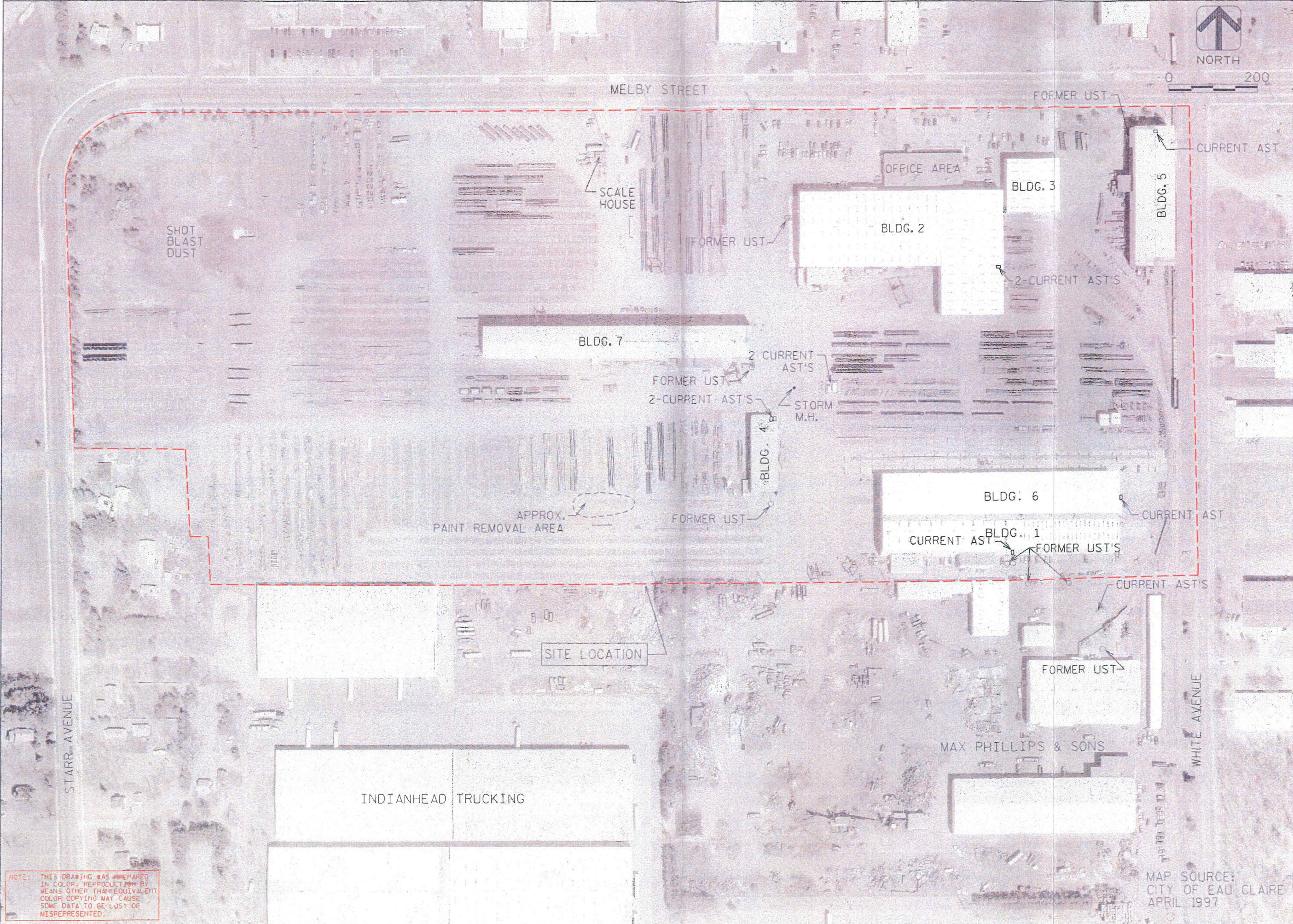
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*LEV01

*REF10
*REF07
*REF04
*REF01



SITE MAP

DRN. BY:	JGS
CHK. BY:	TAW
DATE:	OCT 2001

AVRES ASSOCIATES

PHASE II ENVIRONMENTAL
SITE ASSESSMENT
PDM BRIDGE
2800 MELBY STREET
EAU CLAIRE, WISCONSIN

FIGURE

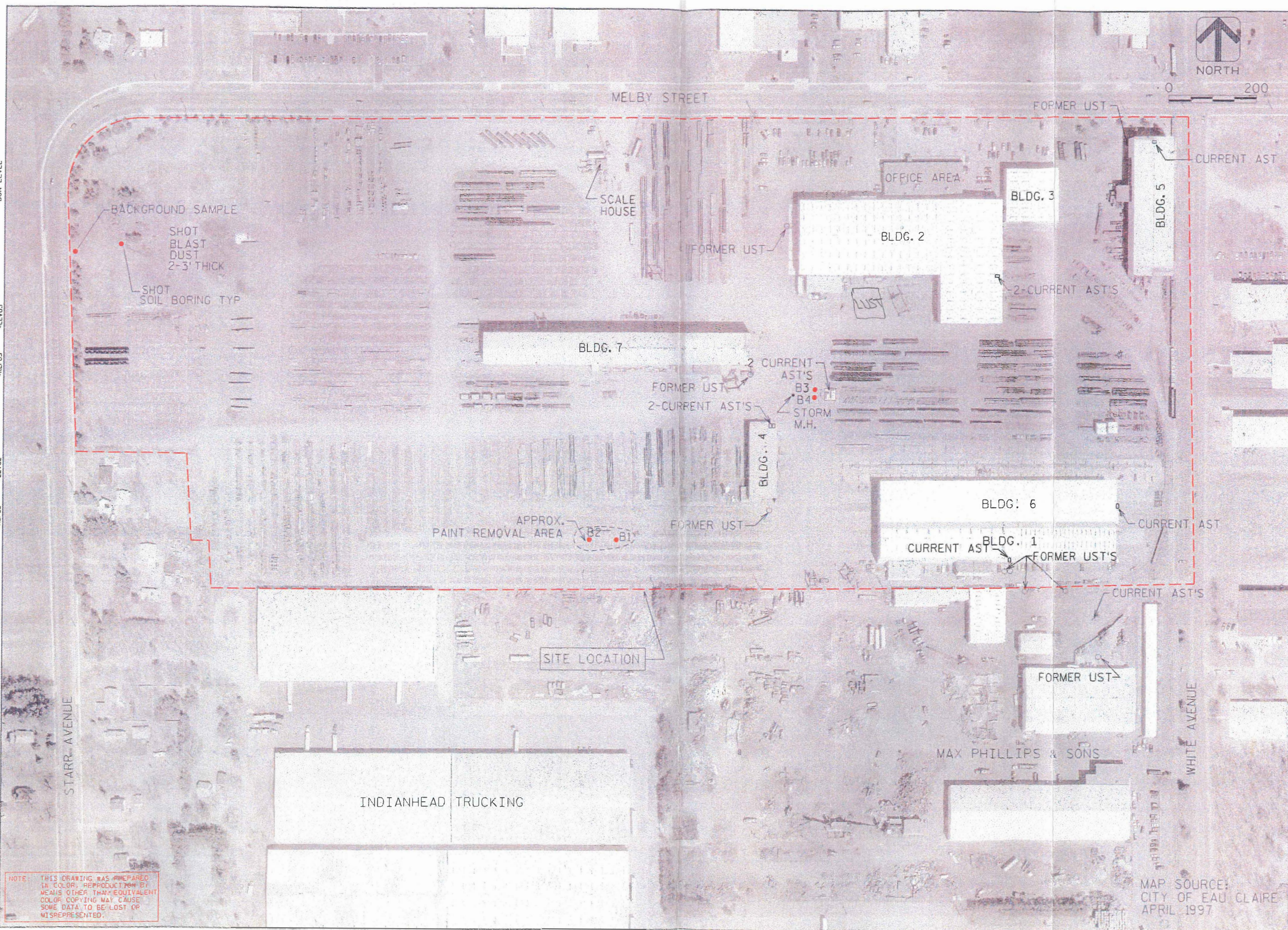
NOTE: THIS DRAWING WAS PREPARED IN COLOR. REPRODUCTION BY MEANS OTHER THAN EQUIVALENT COLOR COPYING MAY CAUSE SOME DATA TO BE LOST OR MISREPRESENTED.

MAP SOURCE:
CITY OF EAU CLAIRE
APRIL 1997



0 200

\$PENS\$ 10/12/01 K:\WASTE\101308ae2.dgn DGN LEVEL
*LEVI2 *LEV09 *LEV08 *LEV06 *LEV03
*REFI2 *REF08 *REF05 *REF03
*LEVI1 *LEV08 *LEV05 *LEV02
*REFI1 *REF08 *REF05 *REF02
*LEVI0 *LEV07 *LEV04 *LEV01
*REFI0 *REF07 *REF04 *REF01



SOIL BORING LOCATION MAP

DRN. BY: JCS
CHK. BY: JCS
DATE: AUG 2001



PHASE II ENVIRONMENTAL
SITE ASSESSMENT
PDM BRIDGE
2800 MELBY STREET
EAU CLAIRE, WISCONSIN

FIGURE

NOTE: THIS DRAWING WAS PREPARED IN COLOR. REPRODUCTION BY MEANS OTHER THAN EQUIVALENT COLOR COPYING MAY CAUSE SOME DATA TO BE LOST OR MISREPRESENTED.

MAP SOURCE:
CITY OF EAU CLAIRE
APRIL 1997

Depth to groundwater 63 feet

Not a soil sample

TABLE 1
SOIL ANALYTICAL RESULTS
PDM BRIDGE--EAU CLAIRE PHASE II

Sample location	Paint dump area	Paint dump area	Paint dump area	Paint dump area	Refueling area	Refueling area	Refueling area	Refueling area	Shot blast	Shot blast TCLP	Background	
Date	2-Oct-01	2-Oct-01	2-Oct-01	2-Oct-01	2-Oct-01	2-Oct-01	2-Oct-01	2-Oct-01	2-Oct-01	2-Oct-01	2-Oct-01	NR 720.11 Direct Contact
Sample ID	B1-3	B1-10	B2-4	B2-10	B3-7	B3-10	B4-7	B4-10	Shot	Shot	Background	Standards for Industrial Sites
Sample Depth (inches)	4 to 6	18 to 20	6 to 8	18 to 20	12 to 14	18 to 20	12 to 14	18 to 20	0 to 2	0 to 2	0 to 2	SSL Analysis (mg/kg) SSL 720.11
FID response (i.u.s.)	4.0	1.0	15.0	2.0	7.0	2.0	7.0	3.0	--	--	--	
Arsenic(mg/kg)	<0.54	<0.51	<0.54	<0.51	--	--	--	--	<0.52	--	1.2	1.6
Barium(mg/kg)	52.3	12.5	29.4	12.6	--	--	--	--	2430	<100 (mg/L)	58.8	140,000 NS 32
Cadmium(mg/kg)	0.73	0.024	0.05	0.025	--	--	--	--	0.51	--	0.094	1,000 510 6
Chromium (mg/kg)	14.6	4.7	10.6	6.4	--	--	--	--	37	<5.0 (mg/L)	12.8	10,000 200 19 (VI)
Lead (mg/kg)	8.7	0.9	4.8	0.89	--	--	--	--	3.3	<5.0 (mg/L)	12.3	500
Selenium (mg/kg)	0.65	0.44	0.71	0.56	--	--	--	--	0.72	--	0.0062	10,000 NS 3
Silver (mg/L)	<0.072	<0.069	<0.073	<0.069	--	--	--	--	<0.070	--	<0.076	NS
Mercury (mg/L)	<0.0062	<0.0061	<0.0063	<0.0061	--	--	--	--	<0.0059	--	0.0096	NS
Acetone (mg/kg)	0.15	0.13	0.28	<0.13	--	--	--	--	--	--	--	NS
Methylene Chloride (mg/kg)	0.024	0.027	0.037	<0.020	--	--	--	--	--	--	--	NS
												NR 720.09 Standards
DRO (mg/kg)	--	--	--	--	<2.8	<2.8	22	<2.8	--	--	--	100
GRO (mg/kg)	--	--	<1.1	<1.1	2.1	<1.1	4.8	<1.1	--	--	--	100
Benzene (mg/kg)	<0.0052	<0.0051	<0.0053	<0.0052	<0.025	<0.025	<0.025	<0.025	--	--	--	0.0055
Ethylbenzene (mg/kg)	<0.0041	<0.0041	<0.0042	<0.0041	<0.025	<0.025	<0.025	<0.025	--	--	--	2.9
Toluene (mg/kg)	<0.0062	<0.0061	0.016	<0.0062	<0.025	<0.025	<0.025	<0.025	--	--	--	1.5
Total Xylenes (mg/kg)	<0.0182	<0.0181	0.0203	<0.0182	<0.025	<0.025	<0.025	<0.025	--	--	--	4.1
MTBE(mg/kg)	<0.011	<0.011	<0.012	<0.011	<0.025	<0.025	<0.025	<0.025	--	--	--	NS
1,2,4-TMB (mg/kg)	<0.0052	<0.0051	0.0054	<0.0052	0.046	<0.025	<0.025	<0.025	--	--	--	NS
1,3,5-TMB (mg/kg)	<0.0052	<0.0051	<0.0053	<0.0052	<0.025	<0.025	<0.025	<0.025	--	--	--	NS

-- = Not analyzed
< = Less than the detection limit shown
MTBE = Methyl-tert-butyl ether
mg/kg = Milligrams per kilogram, equivalent to parts per million (ppm)

NS = No standard
TMB = Trimethylbenzene
i.u.s. = Instrument units

Appendix A
Field Procedures

Field Procedures

This appendix describes fieldwork procedures for this project. Where applicable, these procedures are performed in accordance with Wisconsin Department of Natural Resources (WDNR), Wisconsin Administrative Code requirements, American Society for Testing and Materials (ASTM) standards, or accepted engineering or geologic standards.

Soil Probe Installation

Soil probes are installed by the contractor, in accordance with the procedures described in Wisconsin Administrative Code, Chapter NR 141. Soil probe sampling consists of installing a hydraulically-driven steel 2-inch-diameter rod. The steel sampling device at the end of the rods is 4 feet long and is assembled with a disposable plastic liner for sample collection. Samples are collected at a continuous interval using the following method:

When the rod is positioned at the top of the desired sampling interval, the piston stop pin is removed, and the sampler is driven the desired sample interval to encase the soil sample in the plastic liner. The rods are then retracted from the hole and brought to the surface. The plastic liner is removed from the sample rod that contains the undisturbed soil sample. The liner is split open with a clean utility knife and the soil is classified and then transferred to laboratory and field screening containers as described in the soil sample collection section in this appendix.

An Ayres Associates representative is present during the field work to establish soil probe locations, determine soil sample intervals, classify soils using the Unified Soil Classification System (USCS), log soil probes, and collect and screen soil samples. Soil classification information is recorded on the soil boring logs (WDNR Form 4400-122), and copies are included in the site investigation report.

Sampling equipment is decontaminated as described under decontamination in this appendix. All probe equipment is steam cleaned before reuse. Plastic liners are disposable and are not reused.

When the sampling is completed, soil probe holes are filled with bentonite and the surface material restored. Soil probe abandonment details are described on WDNR Form 3300-5W, and copies are included in the site investigation report. Soil cuttings generated during drilling are containerized in 5-gallon buckets on site and are labeled with the date and the soil's origin. Because of the small quantity, these cuttings are typically disposed of in a Dumpster.

Soil Sample Collection

Ayres Associates personnel retrieve soil samples from the sampling equipment using a clean wooden spatula or a clean 20- to 30-milliliter polyethylene syringe and avoid collecting slough materials.

At each sampling point, we collect two groups of soil samples: headspace samples and samples for potential laboratory analysis. We place samples for headspace screening in clean 8-ounce glass jars with screw caps and lids, and fill the jars approximately one-quarter to one-third full. We use the headspace screening results to determine which soil samples should be preserved and/or sent to the laboratory. Soil collection methods used are in accordance with

WDNR's *Leaking Underground Storage Tank and Petroleum Analytical and Quality Assurance Guidance*, July 1993, PUBL SW-130 93.

During collection of laboratory grade samples, we remove the soil from the sampling equipment and place it directly into a stainless-steel tube, which is capped to prevent volatilization. These tubes are temporarily stored on ice in a cooler. After field screening is done and within the prescribed 2 hours, the required sample amount is transferred to the correct laboratory container and a preservative is added if needed. For diesel range organic (DRO), gasoline range organic (GRO), volatile organic compound (VOC), or petroleum VOC (PVOC) samples, we weigh the jar on a scale before adding soil and again after the soils are added to verify that approximately 25 grams is contained. We then place the selected laboratory samples on ice in a cooler immediately after collection and keep samples cool until analysis by the laboratory.

The specific collection method, including the size and type of containers used, is dependent on the type of analysis to be conducted:

- GRO, VOC, and PVOC samples—Collect soil directly from the sampling collection equipment and place the sample immediately in a stainless-steel tube supplied by the laboratory and labeled by Ayres Associates. We use the following procedure:

Remove the plastic cap and Teflon liner from one end of the tube

Push the tube into the soil to collect enough soil so that the soil is even with the ends of the tube (no headspace)

Securely reattach the cap and Teflon liner to seal the tube

Store samples on ice or at 4°C

Within 2 hours of sample collection, we preserve samples chosen for laboratory analysis, based on field screening results, using the following procedure:

Remove the plastic cap and Teflon liner from one end of the tube

Use a clean wooden or stainless-steel spatula to remove soil from the tube

Place the removed soil in a laboratory-supplied 60-milliliter jar (while being weighed) so that approximately 25 grams of soil is contained

Immediately add laboratory-supplied methanol (premeasured vials containing 25 milliliters) to the sample

We prepare a methanol blank (one for each day of sampling) during preservation of the first soil sample. A methanol blank is prepared by filling a 60-milliliter jar with a single 25-milliliter vial of methanol supplied by the laboratory.

After the stainless-steel tubes are used, we send them to the laboratory for decontamination.

- DRO samples—Using a clean syringe, place approximately 25 grams soil into a 60-milliliter tared glass jar with a septum lid. No preservative is added to these samples.
- Polynuclear aromatic hydrocarbons (PAHs)—Fill a 4-ounce glass jar with a Teflon-lined lid leaving no headspace.

- Metals—Fill a 125-milliliter plastic jar with soil. No preservative is added to these samples.
- Percent solids (moisture analysis)—Fill a 125-milliliter plastic jar with soil.

Ayres Associates initiates a chain-of-custody log, WDNR Form 4400-151 or equivalent, when the samples are collected. We record the project name and number, sampler's name(s), sample location and depth, sample number, date and time of collection, type of sample, method of sample collection, number of containers, type of preservation, type of chemical analyses to be performed, field screening results (soils only), and additional remarks about the sample if needed on the chain-of-custody log. The individual(s) handling the samples signs and dates the log. Shipment arrangements are made so the samples arrive within the appropriate shipping time allowed by WDNR guidance.

Soil Laboratory Analysis

Samples are analyzed by a laboratory certified by the WDNR. Analytical methods used are as follows:

<u>PARAMETER</u>	<u>METHOD</u>	<u>MDL</u>
GRO	WDNR Modified GRO	10 mg/kg
DRO	WDNR Modified DRO	10 mg/kg
VOCs	EPA Method 8260	25 µg/kg
PVOCs	EPA Method 8020	25 µg/kg
PAHs	EPA Method 8310	0.15-1.2 mg/kg
RCRA Metals	EPA Method 6010B and EPA 7471	Varies

Headspace Screening (FID)

Headspace screening samples are qualitatively screened for organic vapors using a flame ionization detector (FID).

The FID is factory calibrated annually with three methane gas standards. The accuracy of the FID instrument is checked daily by adjusting the instrument to a "Zero Air" standard (<1 part per million [ppm] total hydrocarbons) and then using a 95 ppm methane gas standard to verify factory calibration. According to the manufacturer, the operation of the FID is acceptable if the response to the methane gas is within 20% of the 95 ppm standard. This equates to meter readings between 76 and 114. The FID response to the calibration gas is documented in the site investigation report.

After allowing the soil sample to equilibrate in accordance with WDNR guidance, we screen the total organic vapors in the jar by piercing the lid and then immediately inserting the FID probe.

Meter responses are recorded as instrument units (i.u.s) methane gas equivalents. The highest meter response is recorded in the field notes and/or on the soil boring logs. The FID responses are a relative indication of total ionizable volatile organic compounds present in the atmosphere surrounding the sample and do not necessarily represent the concentration of any specific compound in the sample.

Sampling Equipment Decontamination

To reduce the potential for cross-contamination of samples, Ayres Associates cleans reusable sampling equipment between each sampling interval using the following three step procedure:

1. Soap and water wash—Remove visible soil by hand with a scrub brush using Alconox soap and tap water
2. Water rinse—Use tap water with a scrub brush to remove soap and left-over soil
3. Deionized water rinse—Use deionized water to rinse off any remaining soil, soap residue, or possible contaminants

The cleaning solution and rinse water are changed regularly during sampling. Water is obtained from store bought one gallon distilled water jugs.

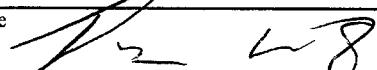
Appendix B
Soil Boring Logs and Abandonment Forms

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

Facility/Project Name PDM Eau Claire		License/Permit/Monitoring Number 10130840		Boring Number B1	
Boring Drilled By: Name of crew chief (first, last) and Firm Rowe Geiss		Date Drilling Started 10/2/2001		Date Drilling Completed 10/2/2001	
Drilling Method vibratory		Final Static Water Level Feet Site		Surface Elevation Feet Site	
WI Unique Well No.	DNR Well ID No.	Common Well Name		Borehole Diameter 2.0 inches	
Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location	
N 1/4 of SW 1/4 of Section 33, T 28 N, R 9 W		Lat _____° _____'		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long _____° _____'		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Chippewa	County Code 9	Civil Town/City/ or Village Eau Claire	

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		
B1-1 GRAB	2-24			Light brown medium to fine sand with silt				NR							M
B1-2 GRAB	4-24		2					1							M
B1-3 GRAB	6-20		4					4							M
B1-4 GRAB	8-20		6		SP			1							M
B1-5 GRAB	10-18		8					1							M
B1-6 GRAB	12-18		10					1							M
B1-7 GRAB	14-18		12					1							M
B1-8 GRAB	16-18		14	Pepper sand with gravel				1							M
B1-9 GRAB	18-24		16		SP			1							M
B1-10 GRAB	20-24		18					1							M

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

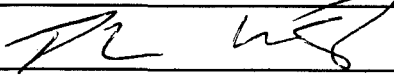
Signature  Firm **Ayres Associates** Tel: _____ Fax: _____

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

Facility/Project Name PDM Eau Claire		License/Permit/Monitoring Number 10130840		Boring Number B2	
Boring Drilled By: Name of crew chief (first, last) and Firm Rowe Geiss			Date Drilling Started 10/2/2001	Date Drilling Completed 10/2/2001	Drilling Method vibratory
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter 2.0 inches
Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N N 1/4 of SW 1/4 of Section 33, T 28 N, R 9 W			Local Grid Location Lat _____ ° _____ ' _____ " Long _____ ° _____ ' _____ " Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID	County Chippewa	County Code 9	Civil Town/City/ or Village Eau Claire		

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	
B2-1 GRAB	2 24			Light brown fine silty sand	SM			NR						M
B2-2 GRAB	4 24		2	Light brown fine silty sand with wood fragments	SM			NR						M
B2-3 GRAB	6 18		4	White concrete looking material	Concrete			15						M
B2-4 GRAB	8 24		6	Light brown silty sand with gravel										M
B2-5 GRAB	10 10		8					7						M
B2-6 GRAB	12 10		10		SP			3						M
B2-7 GRAB	14 24		12					4						M
B2-8 GRAB	16 24		14	Pepper sand with gravel				NR						M
B2-9 GRAB	18 24		16		SP			1						M
B2-10 GRAB	20 24		18					2						M

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

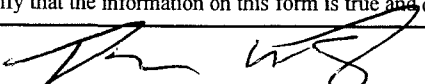
Signature  Firm Ayres Associates Tel: _____ Fax: _____

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

Facility/Project Name PDM Eau Claire		License/Permit/Monitoring Number 10130840		Boring Number B3	
Boring Drilled By: Name of crew chief (first, last) and Firm Rowe Geiss		Date Drilling Started 10/2/2001		Date Drilling Completed 10/2/2001	
Drilling Method vibratory		Final Static Water Level Feet Site		Surface Elevation Feet Site	
WI Unique Well No.	DNR Well ID No.	Common Well Name		Borehole Diameter 2.0 inches	
Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location	
N 1/4 of SW 1/4 of Section 33, T 28 N, R 9 W		Lat _____ ° _____ ' _____ "		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long _____ ° _____ ' _____ "		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Chippewa	County Code 9	Civil Town/City/ or Village Eau Claire	

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		
B3-1 GRAB	2-24			Asphalt	Asphalt			4							M
B3-2 GRAB	4-24		2	Brown silty sand				1							M
B3-3 GRAB	6-20		4					1							M
B3-4 GRAB	8-20		6		SM			1							M
B3-5 GRAB	10-24		8					1							M
B3-6 GRAB	12-24		10	Brown sand with silt and gravel				1							M
B3-7 GRAB	14-24		12		SP			7							M
B3-8 GRAB	16-24		14	Black gravel layer Pepper sand with gravel	GP			4							M
B3-9 GRAB	18-24		16					1							M
B3-10 GRAB	20-24		18		SP			2							M

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

Signature:  Firm: **Ayres Associates** Tel: _____ Fax: _____

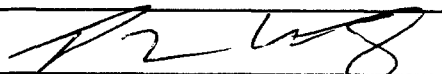
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally 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 PDM Eau Claire		License/Permit/Monitoring Number 10130840		Boring Number B4	
Boring Drilled By: Name of crew chief (first, last) and Firm Rowe Geiss			Date Drilling Started 10/2/2001	Date Drilling Completed 10/2/2001	Drilling Method vibratory
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter 2.0 inches
Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane N 1/4 of SW 1/4 of Section 33, T 28 N, R 9 W			Lat _____ ° _____ ' _____ " _____ E Long _____ ° _____ ' _____ " _____ S _____ E		
Facility ID		County Chippewa	County Code 9	Civil Town/City/ or Village Eau Claire	

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	
B4-1 GRAB	2 24		2	Asphalt	Asphalt			1						M
B4-2 GRAB	4 24		2	Brown silty sand				1						M
B4-3 GRAB	6 24		4					1						M
B4-4 GRAB	8 24		6		SM			1						M
B4-5 GRAB	10 24		8					5						M
B4-6 GRAB	12 24		10	Brown sand with silt and gravel				2						M
B4-7 GRAB	14 20		12		SP			7						M
B4-8 GRAB	16 20		14	Pepper sand with gravel				2						M
B4-9 GRAB	18 24		16		SP			3						M
B4-10 GRAB	20 24		18					3						M

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

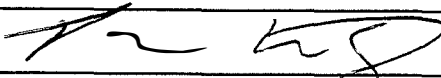
Signature 	Firm Ayres Associates	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name PDM Eau Claire		License/Permit/Monitoring Number 10130840		Boring Number B5 (5404)	
Boring Drilled By: Name of crew chief (first, last) and Firm Trevor Wilson Ayres Associates		Date Drilling Started 10/2/2001		Date Drilling Completed 10/2/2001	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet Site		Surface Elevation Feet Site		Borehole Diameter 2.0 inches	
Local Grid Origin <input checked="" 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	
N 1/4 of SW 1/4 of Section 33, T 28 N, R 9 W		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	
Facility ID		County Chippewa		County Code 9	
		Civil Town/City/ or Village Eau Claire			

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	
B5-1 GRAB	2 24			Shot blast material	SP									M

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

Signature  Firm **Ayres Associates** 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.

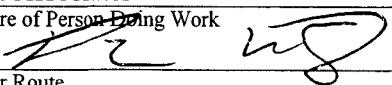
All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION Well/Drillhole/Borehole Location <u>B1</u> County <u>Chippewa</u> _____ 1/4 of _____ 1/4 of Sec. <u>33</u> ; T. <u>28</u> N; R. <u>9</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W (If Applicable) _____ Gov't Lot _____ Grid Number _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W. Civil Town Name _____ Street Address of Well <u>2800 Melby Street</u> City, Village <u>Eau Claire</u>	(2) FACILITY NAME <u>PDM Eau Claire</u> Original Well Owner (If Known) <u>PDM Eau Claire</u> Present Well Owner _____ Street or Route _____ City, State, Zip Code _____ Facility Well No. and/or Name (If Applicable) _____ WI Unique Well No. _____ Reason For Abandonment <u>Sampling completed</u> Date of Abandonment <u>10/02/01</u>
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WELL/DRILLHOLE/BOREHOLE INFORMATION (3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____ <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Construction Type: <input type="checkbox"/> Drilled <input 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 (in.) _____ (From ground surface) Casing Depth (ft.) _____ Lower Drillhole Diameter (in.) _____ Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	(4) Depth to Water (Feet) _____ 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____ Was Casing Cut Off Below Surface? <input 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
(5) Required Method of Placing Sealing Material <input 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 type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input checked="" 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.)	Sacks Sealant	Mix Ratio or Mud Weight
Surface				

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Ayres Associates
 Signature of Person Doing Work  Date Signed 10/4/01
 Street or Route _____ Telephone Number _____
 City, State, Zip Code _____

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected _____	District/County _____
Reviewer/Inspector _____	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary _____	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME PDM Eau Claire	
Well/Drillhole/Borehole Location <u>82</u>	County <u>Chippewa</u>	Original Well Owner (If Known) PDM Eau Claire	
_____ 1/4 of _____ 1/4 of Sec. <u>33</u> ; T. <u>28</u> N.; R. <u>9</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W (If Applicable)		Present Well Owner	
_____ Gov't Lot _____ Grid Number _____		Street or Route	
_____ 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 _____		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
Street Address of Well <u>2800 Melby Street</u>		Reason For Abandonment <u>Sampling completed</u>	
City, Village <u>Eau Claire</u>		Date of Abandonment <u>10/02/01</u>	

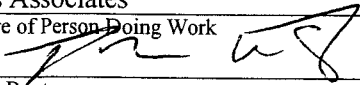
WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No </p> <p> Construction Type: <input type="checkbox"/> Drilled <input 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 (in.) _____ (From ground surface) Casing Depth (ft.) _____ </p> <p> Lower Drillhole Diameter (in.) _____ </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 checked="" 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 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 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 type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout </p>
---	---

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
	Surface			

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Ayres Associates

Signature of Person Doing Work 	Date Signed <u>10/4/01</u>
Street or Route	Telephone Number
City, State, Zip Code	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

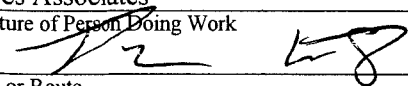
(1) GENERAL INFORMATION		(2) FACILITY NAME PDM Eau Claire	
Well/Drillhole/Borehole Location B3	County Chippewa	Original Well Owner (If Known) PDM Eau Claire	
1/4 of 1/4 of Sec. 33 ; T. 28 N; R. 9 <input type="checkbox"/> E <input checked="" type="checkbox"/> W (If Applicable)		Present Well Owner	
Grid Location Gov't Lot _____ Grid Number _____		Street or Route	
_____ 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		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
Street Address of Well 2800 Melby Street		Reason For Abandonment Sampling completed	
City, Village Eau Claire		Date of Abandonment 10/02/01	

WELL/DRILLHOLE/BOREHOLE INFORMATION			
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____ <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole Construction Type: <input type="checkbox"/> Drilled <input 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 (in.) _____ (From ground surface) Casing Depth (ft.) _____ Lower Drillhole Diameter (in.) _____ Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	(4) Depth to Water (Feet) _____ 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____ Was Casing Cut Off Below Surface? <input 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	(5) Required Method of Placing Sealing Material <input 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 type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input checked="" 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.)	Sacks Sealant	Mix Ratio or Mud Weight
Surface				

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Ayres Associates

Signature of Person Doing Work 	Date Signed 10/4/01
Street or Route	Telephone Number
City, State, Zip Code	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME PDM Eau Claire	
Well/Drillhole/Borehole Location 84	County Chippewa	Original Well Owner (If Known) PDM Eau Claire	
____ 1/4 of ____ 1/4 of Sec. 33 ; T. 28 N; R. 9 <input type="checkbox"/> E <input checked="" type="checkbox"/> W (If Applicable)		Present Well Owner	
____ Gov't Lot _____ Grid Number		Street or Route	
Grid Location _____ 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		Facility Well No. and/or Name (If Applicable)	WI Unique Well No.
Street Address of Well 2800 Melby Street		Reason For Abandonment Sampling completed	
City, Village Eau Claire		Date of Abandonment 10/02/01	

WELL/DRILLHOLE/BOREHOLE INFORMATION			
<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Construction Type: <input type="checkbox"/> Drilled <input 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 (in.) _____ (From ground surface) Casing Depth (ft.) _____</p> <p>Lower Drillhole Diameter (in.) _____</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 checked="" 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 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 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"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input checked="" 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.)	Sacks Sealant	Mix Ratio or Mud Weight
Surface				

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Ayres Associates

Signature of Person Doing Work 	Date Signed 10/4/01
Street or Route	Telephone Number
City, State, Zip Code	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

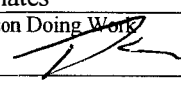
All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION Well/Drillhole/Borehole Location <u>B5 (Shot)</u> County <u>Chippewa</u> _____ 1/4 of _____ 1/4 of Sec. <u>33</u> ; T. <u>28</u> N; R. <u>9</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W (If Applicable) _____ Gov't Lot _____ Grid Number Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W. Civil Town Name _____ Street Address of Well <u>2800 Melby Street</u> City, Village <u>Eau Claire</u>	(2) FACILITY NAME <u>PDM Eau Claire</u> Original Well Owner (If Known) <u>PDM Eau Claire</u> Present Well Owner _____ Street or Route _____ City, State, Zip Code _____ Facility Well No. and/or Name (If Applicable) _____ WI Unique Well No. _____ Reason For Abandonment <u>Sampling completed</u> Date of Abandonment <u>10/02/01</u>
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WELL/DRILLHOLE/BOREHOLE INFORMATION (3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____ <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Construction Type: <input type="checkbox"/> Drilled <input 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 (in.) _____ (From ground surface) Casing Depth (ft.) _____ Lower Drillhole Diameter (in.) _____ Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	(4) Depth to Water (Feet) _____ 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____ 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 checked="" 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 (5) Required Method of Placing Sealing Material <input 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 type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite <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.)	Sacks Sealant	Mix Ratio or Mud Weight
Surface				

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work Ayres Associates
 Signature of Person Doing Work  Date Signed 10/4/01
 Street or Route _____ Telephone Number _____
 City, State, Zip Code _____

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected _____	District/County _____
Reviewer/Inspector _____	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary _____	

Appendix C
Laboratory Reports

ANALYTICAL REPORT

1 of 12

AYRES ASSOCIATES
 TERRI HAZELTON
 3433 OAKWOOD HILLS PKWY
 EAU CLAIRE, WI 54702

Project Name: PDM EAU CLAIRE
 Contract #: 1451
 Project #: 10-1305.40
 Folder #: 20707
 Purchase Order #:
 Arrival Temperature: See COC
 Report Date: 10/10/01
 Date Received: 10/4/01
 Reprint Date:

CTI LAB#:	90698	Sample Description:	B1-3	Sampled:	10/2/01	1415
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	96.5	%	N/A	N/A	1			10/5/01	KLM	EPA 5030A
Metals Results										
Arsenic	<0.54	mg/kg	0.54	1.8	1		10/5/01	10/8/01	NAH	EPA 6010B
Barium	52.3	mg/kg	0.10	0.34	1		10/5/01	10/8/01	NAH	EPA 6010B
Cadmium	0.073	mg/kg	0.023 *	0.078	1		10/5/01	10/8/01	NAH	EPA 6010B
Chromium	14.6	mg/kg	0.062	0.21	1		10/5/01	10/8/01	NAH	EPA 6010B
Lead	8.7	mg/kg	0.22	0.72	1		10/5/01	10/8/01	NAH	EPA 6010B
Selenium	0.65	mg/kg	0.31 *	1.0	1		10/5/01	10/8/01	NAH	EPA 6010B
Silver	<0.072	mg/kg	0.072	0.24	1		10/5/01	10/8/01	NAH	EPA 6010B
Mercury	<0.0062	mg/kg	0.0062	0.021	1		10/6/01	10/8/01	NAH	EPA 7471
Organic Results										
Acetone	0.15	mg/kg	0.13 *	0.46	1	B	10/5/01	10/8/01	RLD	EPA 8260
Benzene	<0.0052	mg/kg	0.0052	0.018	1		10/5/01	10/8/01	RLD	EPA 8260
Bromobenzene	<0.0073	mg/kg	0.0073	0.024	1		10/5/01	10/8/01	RLD	EPA 8260
Bromochloromethane	<0.0073	mg/kg	0.0073	0.023	1		10/5/01	10/8/01	RLD	EPA 8260
Bromodichloromethane	<0.0062	mg/kg	0.0062	0.022	1		10/5/01	10/8/01	RLD	EPA 8260
Bromoform	<0.0093	mg/kg	0.0093	0.032	1		10/5/01	10/8/01	RLD	EPA 8260
Bromomethane	<0.015	mg/kg	0.015	0.047	1		10/5/01	10/8/01	RLD	EPA 8260
2-Butanone	<0.12	mg/kg	0.12	0.41	1		10/5/01	10/8/01	RLD	EPA 8260
n-Butylbenzene	<0.0062	mg/kg	0.0062	0.021	1		10/5/01	10/8/01	RLD	EPA 8260
sec-Butylbenzene	<0.012	mg/kg	0.012	0.039	1		10/5/01	10/8/01	RLD	EPA 8260
tert-Butylbenzene	<0.010	mg/kg	0.010	0.034	1		10/5/01	10/8/01	RLD	EPA 8260

WI DNR Lab Certification Number: 15-7066030
 DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

CTI LAB#:	90698	Sample Description:	B1-3	Sampled:	10/2/01	1415
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.062	mg/kg	0.062	0.21	1		10/5/01	10/8/01	RLD	EPA 8260
Carbon tetrachloride	<0.011	mg/kg	0.011	0.039	1		10/5/01	10/8/01	RLD	EPA 8260
Chlorobenzene	<0.0073	mg/kg	0.0073	0.025	1		10/5/01	10/8/01	RLD	EPA 8260
Dibromochloromethane	<0.0062	mg/kg	0.0062	0.021	1		10/5/01	10/8/01	RLD	EPA 8260
Chloroethane	<0.010	mg/kg	0.010	0.034	1		10/5/01	10/8/01	RLD	EPA 8260
Chloroform	<0.0062	mg/kg	0.0062	0.022	1		10/5/01	10/8/01	RLD	EPA 8260
Chloromethane	<0.0093	mg/kg	0.0093	0.030	1		10/5/01	10/8/01	RLD	EPA 8260
2-Chlorotoluene	<0.0062	mg/kg	0.0062	0.020	1		10/5/01	10/8/01	RLD	EPA 8260
4-Chlorotoluene	<0.0062	mg/kg	0.0062	0.021	1		10/5/01	10/8/01	RLD	EPA 8260
1,2-Dibromo-3-chloropropane	<0.013	mg/kg	0.013	0.045	1		10/5/01	10/8/01	RLD	EPA 8260
1,2-Dibromoethane	<0.0073	mg/kg	0.0073	0.025	1		10/5/01	10/8/01	RLD	EPA 8260
Dibromomethane	<0.011	mg/kg	0.011	0.038	1		10/5/01	10/8/01	RLD	EPA 8260
1,2-Dichlorobenzene	<0.0062	mg/kg	0.0062	0.020	1		10/5/01	10/8/01	RLD	EPA 8260
1,3-Dichlorobenzene	<0.0062	mg/kg	0.0062	0.023	1		10/5/01	10/8/01	RLD	EPA 8260
1,4-Dichlorobenzene	<0.0062	mg/kg	0.0062	0.099	1		10/5/01	10/8/01	RLD	EPA 8260
Dichlorodifluoromethane	<0.0093	mg/kg	0.0093	0.030	1		10/5/01	10/8/01	RLD	EPA 8260
1,1-Dichloroethane	<0.0052	mg/kg	0.0052	0.019	1		10/5/01	10/8/01	RLD	EPA 8260
1,2-Dichloroethane	<0.019	mg/kg	0.019	0.062	1		10/5/01	10/8/01	RLD	EPA 8260
1,1-Dichloroethene	<0.0073	mg/kg	0.0073	0.026	1		10/5/01	10/8/01	RLD	EPA 8260
cis-1,2-Dichloroethene	<0.0083	mg/kg	0.0083	0.027	1		10/5/01	10/8/01	RLD	EPA 8260
trans-1,2-Dichloroethene	<0.0093	mg/kg	0.0093	0.029	1		10/5/01	10/8/01	RLD	EPA 8260
1,2-Dichloropropane	<0.015	mg/kg	0.015	0.049	1		10/5/01	10/8/01	RLD	EPA 8260
1,3-Dichloropropane	<0.0062	mg/kg	0.0062	0.020	1		10/5/01	10/8/01	RLD	EPA 8260
2,2-Dichloropropane	<0.0083	mg/kg	0.0083	0.026	1		10/5/01	10/8/01	RLD	EPA 8260
1,1-Dichloropropene	<0.011	mg/kg	0.011	0.036	1		10/5/01	10/8/01	RLD	EPA 8260
cis-1,3-Dichloropropene	<0.0062	mg/kg	0.0062	0.020	1		10/5/01	10/8/01	RLD	EPA 8260
trans-1,3-Dichloropropene	<0.0073	mg/kg	0.0073	0.025	1		10/5/01	10/8/01	RLD	EPA 8260
Diisopropyl ether	<0.0073	mg/kg	0.0073	0.024	1		10/5/01	10/8/01	RLD	EPA 8260
Ethylbenzene	<0.0041	mg/kg	0.0041	0.013	1		10/5/01	10/8/01	RLD	EPA 8260
Hexachlorobutadiene	<0.011	mg/kg	0.011	0.037	1		10/5/01	10/8/01	RLD	EPA 8260
2-Hexanone	<0.093	mg/kg	0.093	0.32	1		10/5/01	10/8/01	RLD	EPA 8260

WI DNR Lab Certification Number: 15-7066030
 DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

CTI LAB#:	90698	Sample Description:	B1-3	Sampled:	10/2/01	1415
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Isopropylbenzene	<0.016	mg/kg	0.016	0.051	1		10/5/01	10/8/01	RLD	EPA 8260
p-Isopropyltoluene	<0.0041	mg/kg	0.0041	0.013	1		10/5/01	10/8/01	RLD	EPA 8260
Methyl tert-butyl ether	<0.011	mg/kg	0.011	0.037	1		10/5/01	10/8/01	RLD	EPA 8260
4-Methyl-2-pentanone	<0.10	mg/kg	0.10	0.33	1		10/5/01	10/8/01	RLD	EPA 8260
Methylene chloride	0.024	mg/kg	0.020	0.064	1	B	10/5/01	10/8/01	RLD	EPA 8260
Naphthalene	<0.015	mg/kg	0.015	0.048	1		10/5/01	10/8/01	RLD	EPA 8260
n-Propylbenzene	<0.0093	mg/kg	0.0093	0.033	1		10/5/01	10/8/01	RLD	EPA 8260
Styrene	<0.0041	mg/kg	0.0041	0.015	1		10/5/01	10/8/01	RLD	EPA 8260
1,1,1,2-Tetrachloroethane	<0.0083	mg/kg	0.0083	0.027	1		10/5/01	10/8/01	RLD	EPA 8260
1,1,2,2-Tetrachloroethane	<0.0093	mg/kg	0.0093	0.031	1		10/5/01	10/8/01	RLD	EPA 8260
Tetrachloroethene	<0.0083	mg/kg	0.0083	0.027	1		10/5/01	10/8/01	RLD	EPA 8260
Tetrahydrofuran	<0.11	mg/kg	0.11	0.37	1		10/5/01	10/8/01	RLD	EPA 8260
Toluene	<0.0062	mg/kg	0.0062	0.022	1		10/5/01	10/8/01	RLD	EPA 8260
1,2,3-Trichlorobenzene	<0.0083	mg/kg	0.0083	0.028	1		10/5/01	10/8/01	RLD	EPA 8260
1,2,4-Trichlorobenzene	<0.0083	mg/kg	0.0083	0.026	1		10/5/01	10/8/01	RLD	EPA 8260
1,1,1-Trichloroethane	<0.010	mg/kg	0.010	0.035	1		10/5/01	10/8/01	RLD	EPA 8260
1,1,2-Trichloroethane	<0.0062	mg/kg	0.0062	0.031	1		10/5/01	10/8/01	RLD	EPA 8260
Trichloroethene	<0.010	mg/kg	0.010	0.036	1		10/5/01	10/8/01	RLD	EPA 8260
Trichlorofluoromethane	<0.019	mg/kg	0.019	0.063	1		10/5/01	10/8/01	RLD	EPA 8260
1,2,3-Trichloropropane	<0.0083	mg/kg	0.0083	0.026	1		10/5/01	10/8/01	RLD	EPA 8260
1,2,4-Trimethylbenzene	<0.0052	mg/kg	0.0052	0.017	1		10/5/01	10/8/01	RLD	EPA 8260
1,3,5-Trimethylbenzene	<0.0052	mg/kg	0.0052	0.017	1		10/5/01	10/8/01	RLD	EPA 8260
Vinyl chloride	<0.0073	mg/kg	0.0073	0.024	1		10/5/01	10/8/01	RLD	EPA 8260
m & p-Xylene	<0.013	mg/kg	0.013	0.046	1		10/5/01	10/8/01	RLD	EPA 8260
o-Xylene	<0.0052	mg/kg	0.0052	0.019	1		10/5/01	10/8/01	RLD	EPA 8260

CTI LAB#:	90699	Sample Description:	B1-10	Sampled:	10/2/01	1430
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	97.7	%	N/A	N/A	1			10/5/01	KLM	EPA 5030A

Metals Results

WI DNR Lab Certification Number: 15-7066030
 DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

CTI LAB#:	90699	Sample Description:	B1-10	Sampled:	10/2/01	1430
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Arsenic	<0.51	mg/kg	0.51	1.7	1		10/5/01	10/8/01	NAH	EPA 6010B
Barium	12.5	mg/kg	0.098	0.33	1		10/5/01	10/8/01	NAH	EPA 6010B
Cadmium	0.024	mg/kg	0.022 *	0.074	1		10/5/01	10/8/01	NAH	EPA 6010B
Chromium	4.7	mg/kg	0.059	0.20	1		10/5/01	10/8/01	NAH	EPA 6010B
Lead	0.90	mg/kg	0.21	0.69	1		10/5/01	10/8/01	NAH	EPA 6010B
Selenium	0.44	mg/kg	0.29 *	0.98	1		10/5/01	10/8/01	NAH	EPA 6010B
Silver	<0.069	mg/kg	0.069	0.23	1		10/5/01	10/8/01	NAH	EPA 6010B
Mercury	<0.0061	mg/kg	0.0061	0.020	1		10/6/01	10/8/01	NAH	EPA 7471
Organic Results										
Acetone	0.13	mg/kg	0.13 *	0.45	1	B	10/5/01	10/8/01	RLD	EPA 8260
Benzene	<0.0051	mg/kg	0.0051	0.017	1		10/5/01	10/8/01	RLD	EPA 8260
Bromobenzene	<0.0072	mg/kg	0.0072	0.024	1		10/5/01	10/8/01	RLD	EPA 8260
Bromochloromethane	<0.0072	mg/kg	0.0072	0.023	1		10/5/01	10/8/01	RLD	EPA 8260
Bromodichloromethane	<0.0061	mg/kg	0.0061	0.021	1		10/5/01	10/8/01	RLD	EPA 8260
Bromoform	<0.0092	mg/kg	0.0092	0.032	1		10/5/01	10/8/01	RLD	EPA 8260
Bromomethane	<0.014	mg/kg	0.014	0.046	1		10/5/01	10/8/01	RLD	EPA 8260
2-Butanone	<0.12	mg/kg	0.12	0.41	1		10/5/01	10/8/01	RLD	EPA 8260
n-Butylbenzene	<0.0061	mg/kg	0.0061	0.020	1		10/5/01	10/8/01	RLD	EPA 8260
sec-Butylbenzene	<0.012	mg/kg	0.012	0.039	1		10/5/01	10/8/01	RLD	EPA 8260
tert-Butylbenzene	<0.010	mg/kg	0.010	0.034	1		10/5/01	10/8/01	RLD	EPA 8260
Carbon disulfide	<0.061	mg/kg	0.061	0.20	1		10/5/01	10/8/01	RLD	EPA 8260
Carbon tetrachloride	<0.011	mg/kg	0.011	0.039	1		10/5/01	10/8/01	RLD	EPA 8260
Chlorobenzene	<0.0072	mg/kg	0.0072	0.025	1		10/5/01	10/8/01	RLD	EPA 8260
Dibromochloromethane	<0.0061	mg/kg	0.0061	0.020	1		10/5/01	10/8/01	RLD	EPA 8260
Chloroethane	<0.010	mg/kg	0.010	0.034	1		10/5/01	10/8/01	RLD	EPA 8260
Chloroform	<0.0061	mg/kg	0.0061	0.021	1		10/5/01	10/8/01	RLD	EPA 8260
Chloromethane	<0.0092	mg/kg	0.0092	0.030	1		10/5/01	10/8/01	RLD	EPA 8260
2-Chlorotoluene	<0.0061	mg/kg	0.0061	0.019	1		10/5/01	10/8/01	RLD	EPA 8260
4-Chlorotoluene	<0.0061	mg/kg	0.0061	0.020	1		10/5/01	10/8/01	RLD	EPA 8260
1,2-Dibromo-3-chloropropane	<0.013	mg/kg	0.013	0.044	1		10/5/01	10/8/01	RLD	EPA 8260
1,2-Dibromoethane	<0.0072	mg/kg	0.0072	0.025	1		10/5/01	10/8/01	RLD	EPA 8260

WI DNR Lab Certification Number: 15-7066030

DATCP Certification Number: 105-000289

CTI LAB#:	90699	Sample Description:	B1-10	Sampled:	10/2/01	1430
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Dibromomethane	<0.011	mg/kg	0.011	0.038	1		10/5/01	10/8/01	RLD	EPA 8260
1,2-Dichlorobenzene	<0.0061	mg/kg	0.0061	0.019	1		10/5/01	10/8/01	RLD	EPA 8260
1,3-Dichlorobenzene	<0.0061	mg/kg	0.0061	0.023	1		10/5/01	10/8/01	RLD	EPA 8260
1,4-Dichlorobenzene	<0.0061	mg/kg	0.0061	0.098	1		10/5/01	10/8/01	RLD	EPA 8260
Dichlorodifluoromethane	<0.0092	mg/kg	0.0092	0.030	1		10/5/01	10/8/01	RLD	EPA 8260
1,1-Dichloroethane	<0.0051	mg/kg	0.0051	0.018	1		10/5/01	10/8/01	RLD	EPA 8260
1,2-Dichloroethane	<0.018	mg/kg	0.018	0.061	1		10/5/01	10/8/01	RLD	EPA 8260
1,1-Dichloroethene	<0.0072	mg/kg	0.0072	0.026	1		10/5/01	10/8/01	RLD	EPA 8260
cis-1,2-Dichloroethene	<0.0082	mg/kg	0.0082	0.027	1		10/5/01	10/8/01	RLD	EPA 8260
trans-1,2-Dichloroethene	<0.0092	mg/kg	0.0092	0.029	1		10/5/01	10/8/01	RLD	EPA 8260
1,2-Dichloropropane	<0.014	mg/kg	0.014	0.048	1		10/5/01	10/8/01	RLD	EPA 8260
1,3-Dichloropropane	<0.0061	mg/kg	0.0061	0.019	1		10/5/01	10/8/01	RLD	EPA 8260
2,2-Dichloropropane	<0.0082	mg/kg	0.0082	0.026	1		10/5/01	10/8/01	RLD	EPA 8260
1,1-Dichloropropene	<0.011	mg/kg	0.011	0.036	1		10/5/01	10/8/01	RLD	EPA 8260
cis-1,3-Dichloropropene	<0.0061	mg/kg	0.0061	0.019	1		10/5/01	10/8/01	RLD	EPA 8260
trans-1,3-Dichloropropene	<0.0072	mg/kg	0.0072	0.025	1		10/5/01	10/8/01	RLD	EPA 8260
Diisopropyl ether	<0.0072	mg/kg	0.0072	0.024	1		10/5/01	10/8/01	RLD	EPA 8260
Ethylbenzene	<0.0041	mg/kg	0.0041	0.013	1		10/5/01	10/8/01	RLD	EPA 8260
Hexachlorobutadiene	<0.011	mg/kg	0.011	0.037	1		10/5/01	10/8/01	RLD	EPA 8260
2-Hexanone	<0.092	mg/kg	0.092	0.32	1		10/5/01	10/8/01	RLD	EPA 8260
Isopropylbenzene	<0.015	mg/kg	0.015	0.050	1		10/5/01	10/8/01	RLD	EPA 8260
p-Isopropyltoluene	<0.0041	mg/kg	0.0041	0.013	1		10/5/01	10/8/01	RLD	EPA 8260
Methyl tert-butyl ether	<0.011	mg/kg	0.011	0.037	1		10/5/01	10/8/01	RLD	EPA 8260
4-Methyl-2-pentanone	<0.10	mg/kg	0.10	0.33	1		10/5/01	10/8/01	RLD	EPA 8260
Methylene chloride	0.027	mg/kg	0.019 *	0.063	1	B	10/5/01	10/8/01	RLD	EPA 8260
Naphthalene	<0.014	mg/kg	0.014	0.047	1		10/5/01	10/8/01	RLD	EPA 8260
n-Propylbenzene	<0.0092	mg/kg	0.0092	0.033	1		10/5/01	10/8/01	RLD	EPA 8260
Styrene	<0.0041	mg/kg	0.0041	0.014	1		10/5/01	10/8/01	RLD	EPA 8260
1,1,1,2-Tetrachloroethane	<0.0082	mg/kg	0.0082	0.027	1		10/5/01	10/8/01	RLD	EPA 8260
1,1,2,2-Tetrachloroethane	<0.0092	mg/kg	0.0092	0.031	1		10/5/01	10/8/01	RLD	EPA 8260
Tetrachloroethene	<0.0082	mg/kg	0.0082	0.027	1		10/5/01	10/8/01	RLD	EPA 8260

WI DNR Lab Certification Number: 15-7066030

DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

CTI LAB#:	90699	Sample Description:	B1-10	Sampled:	10/2/01	1430
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Tetrahydrofuran	<0.11	mg/kg	0.11	0.37	1		10/5/01	10/8/01	RLD	EPA 8260
Toluene	<0.0061	mg/kg	0.0061	0.021	1		10/5/01	10/8/01	RLD	EPA 8260
1,2,3-Trichlorobenzene	<0.0082	mg/kg	0.0082	0.028	1		10/5/01	10/8/01	RLD	EPA 8260
1,2,4-Trichlorobenzene	<0.0082	mg/kg	0.0082	0.026	1		10/5/01	10/8/01	RLD	EPA 8260
1,1,1-Trichloroethane	<0.010	mg/kg	0.010	0.035	1		10/5/01	10/8/01	RLD	EPA 8260
1,1,2-Trichloroethane	<0.0061	mg/kg	0.0061	0.031	1		10/5/01	10/8/01	RLD	EPA 8260
Trichloroethene	<0.010	mg/kg	0.010	0.036	1		10/5/01	10/8/01	RLD	EPA 8260
Trichlorofluoromethane	<0.018	mg/kg	0.018	0.062	1		10/5/01	10/8/01	RLD	EPA 8260
1,2,3-Trichloropropane	<0.0082	mg/kg	0.0082	0.026	1		10/5/01	10/8/01	RLD	EPA 8260
1,2,4-Trimethylbenzene	<0.0051	mg/kg	0.0051	0.016	1		10/5/01	10/8/01	RLD	EPA 8260
1,3,5-Trimethylbenzene	<0.0051	mg/kg	0.0051	0.016	1		10/5/01	10/8/01	RLD	EPA 8260
Vinyl chloride	<0.0072	mg/kg	0.0072	0.024	1		10/5/01	10/8/01	RLD	EPA 8260
m & p-Xylene	<0.013	mg/kg	0.013	0.045	1		10/5/01	10/8/01	RLD	EPA 8260
o-Xylene	<0.0051	mg/kg	0.0051	0.018	1		10/5/01	10/8/01	RLD	EPA 8260

CTI LAB#:	90700	Sample Description:	B2-4	Sampled:	10/2/01	1445
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	95.1	%	N/A	N/A	1			10/5/01	KLM	EPA 5030A
Metals Results										
Arsenic	<0.54	mg/kg	0.54	1.8	1		10/5/01	10/8/01	NAH	EPA 6010B
Barium	29.4	mg/kg	0.10	0.35	1		10/5/01	10/8/01	NAH	EPA 6010B
Cadmium	0.050	mg/kg	0.024 *	0.079	1		10/5/01	10/8/01	NAH	EPA 6010B
Chromium	10.6	mg/kg	0.063	0.21	1		10/5/01	10/8/01	NAH	EPA 6010B
Lead	4.8	mg/kg	0.22	0.74	1		10/5/01	10/8/01	NAH	EPA 6010B
Selenium	0.71	mg/kg	0.31 *	1.1	1		10/5/01	10/8/01	NAH	EPA 6010B
Silver	<0.073	mg/kg	0.073	0.24	1		10/5/01	10/8/01	NAH	EPA 6010B
Mercury	<0.0063	mg/kg	0.0063	0.021	1		10/6/01	10/8/01	NAH	EPA 7471
Organic Results										
Gasoline Range Organics	<1.1	mg/kg	1.2	3.7	1		10/5/01	10/8/01	RKR	WDNR GRO

WI DNR Lab Certification Number: 15-7066030

DATCP Certification Number: 105-000289

CTI LAB#:	90700	Sample Description:	B2-4	Sampled:	10/2/01	1445
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Benzene	<0.025	mg/kg	0.010	0.030	1		10/5/01	10/8/01	RKR	EPA 8020
Ethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
Methyl tert-butyl ether	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/8/01	RKR	EPA 8020
Toluene	<0.025	mg/kg	0.010 *	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
m & p-Xylene	<0.025	mg/kg	0.020	0.070	1		10/5/01	10/8/01	RKR	EPA 8020
o-Xylene	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/8/01	RKR	EPA 8020

CTI LAB#:	90701	Sample Description:	B2-10	Sampled:	10/2/01	1500
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	96.8	%	N/A	N/A	1			10/5/01	KLM	EPA 5030A
Metals Results										
Arsenic	<0.51	mg/kg	0.51	1.7	1		10/5/01	10/8/01	NAH	EPA 6010B
Barium	12.6	mg/kg	0.098	0.33	1		10/5/01	10/8/01	NAH	EPA 6010B
Cadmium	0.025	mg/kg	0.022 *	0.075	1		10/5/01	10/8/01	NAH	EPA 6010B
Chromium	6.4	mg/kg	0.059	0.20	1		10/5/01	10/8/01	NAH	EPA 6010B
Lead	0.89	mg/kg	0.21	0.69	1		10/5/01	10/8/01	NAH	EPA 6010B
Selenium	0.56	mg/kg	0.30 *	0.99	1		10/5/01	10/8/01	NAH	EPA 6010B
Silver	<0.069	mg/kg	0.069	0.23	1		10/5/01	10/8/01	NAH	EPA 6010B
Mercury	<0.0061	mg/kg	0.0061	0.020	1		10/6/01	10/8/01	NAH	EPA 7471
Organic Results										
Gasoline Range Organics	<1.1	mg/kg	1.1	3.6	1		10/5/01	10/8/01	RKR	WDNR GRO
Benzene	<0.025	mg/kg	0.010	0.030	1		10/5/01	10/8/01	RKR	EPA 8020
Ethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
Methyl tert-butyl ether	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/8/01	RKR	EPA 8020
Toluene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020

WI DNR Lab Certification Number: 15-7066030

DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

CTI LAB#:	90701	Sample Description:	B2-10	Sampled:	10/2/01	1500
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
m & p-Xylene	<0.025	mg/kg	0.020	0.070	1		10/5/01	10/8/01	RKR	EPA 8020
o-Xylene	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/8/01	RKR	EPA 8020

CTI LAB#:	90702	Sample Description:	B3-7	Sampled:	10/2/01	1515
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	97.3	%	N/A	N/A	1			10/5/01	KLM	EPA 5030A
Organic Results										
Diesel Range Organics	<2.8	mg/kg	2.8	8.8	1	L	10/5/01	10/9/01	DWC	WDNR DRO
Gasoline Range Organics	2.1	mg/kg	1.1 *	3.6	1		10/5/01	10/8/01	RKR	WDNR GRO
Benzene	<0.025	mg/kg	0.010	0.030	1		10/5/01	10/8/01	RKR	EPA 8020
Ethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
Methyl tert-butyl ether	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/8/01	RKR	EPA 8020
Toluene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
1,2,4-Trimethylbenzene	0.046	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.010 *	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
m & p-Xylene	<0.025	mg/kg	0.020	0.070	1		10/5/01	10/8/01	RKR	EPA 8020
o-Xylene	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/8/01	RKR	EPA 8020

CTI LAB#:	90703	Sample Description:	B3-10	Sampled:	10/2/01	1540
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	96.6	%	N/A	N/A	1			10/5/01	KLM	EPA 5030A
Organic Results										
Diesel Range Organics	<2.8	mg/kg	2.8	8.9	1	L	10/5/01	10/9/01	DWC	WDNR DRO
Gasoline Range Organics	<1.1	mg/kg	1.1	3.6	1		10/5/01	10/8/01	RKR	WDNR GRO
Benzene	<0.025	mg/kg	0.010	0.030	1		10/5/01	10/8/01	RKR	EPA 8020

WI DNR Lab Certification Number: 15-7066030
DATCP Certification Number: 105-000289

CTI LAB#:	90703	Sample Description:	B3-10	Sampled:	10/2/01	1540
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Ethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
Methyl tert-butyl ether	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/8/01	RKR	EPA 8020
Toluene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
m & p-Xylene	<0.025	mg/kg	0.020	0.070	1		10/5/01	10/8/01	RKR	EPA 8020
o-Xylene	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/8/01	RKR	EPA 8020

CTI LAB#:	90704	Sample Description:	B4-7	Sampled:	10/2/01	1600
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	96.9	%	N/A	N/A	1			10/5/01	KLM	EPA 5030A
Organic Results										
Diesel Range Organics	22	mg/kg	2.8	8.9	1	L	10/5/01	10/9/01	DWC	WDNR DRO
Gasoline Range Organics	4.8	mg/kg	1.1	3.6	1		10/5/01	10/8/01	RKR	WDNR GRO
Benzene	<0.025	mg/kg	0.010	0.030	1		10/5/01	10/8/01	RKR	EPA 8020
Ethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
Methyl tert-butyl ether	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/8/01	RKR	EPA 8020
Toluene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
m & p-Xylene	<0.025	mg/kg	0.020	0.070	1		10/5/01	10/8/01	RKR	EPA 8020
o-Xylene	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/8/01	RKR	EPA 8020

CTI LAB#:	90705	Sample Description:	B4-10	Sampled:	10/2/01	1610
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	96.8	%	N/A	N/A	1			10/5/01	KLM	EPA 5030A
Organic Results										

WI DNR Lab Certification Number: 15-7066030
 DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

CTI LAB#:	90705	Sample Description:	B4-10	Sampled:	10/2/01	1610
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Diesel Range Organics	<2.8	mg/kg	2.8	8.9	1	L	10/5/01	10/9/01	DWC	WDNR DRO
Gasoline Range Organics	<1.1	mg/kg	1.1	3.6	1		10/5/01	10/8/01	RKR	WDNR GRO
Benzene	<0.025	mg/kg	0.010	0.030	1		10/5/01	10/8/01	RKR	EPA 8020
Ethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
Methyl tert-butyl ether	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/8/01	RKR	EPA 8020
Toluene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/8/01	RKR	EPA 8020
m & p-Xylene	<0.025	mg/kg	0.020	0.070	1		10/5/01	10/8/01	RKR	EPA 8020
o-Xylene	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/8/01	RKR	EPA 8020

CTI LAB#:	90706	Sample Description:	BLANK	Sampled:	10/2/01	
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
Gasoline Range Organics	<1.1	mg/kg	1.1	3.5	1		10/5/01	10/7/01	RKR	WDNR GRO
Benzene	<0.025	mg/kg	0.010	0.030	1		10/5/01	10/7/01	RKR	EPA 8020
Ethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/7/01	RKR	EPA 8020
Methyl tert-butyl ether	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/7/01	RKR	EPA 8020
Toluene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/7/01	RKR	EPA 8020
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/7/01	RKR	EPA 8020
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.010	0.040	1		10/5/01	10/7/01	RKR	EPA 8020
m & p-Xylene	<0.025	mg/kg	0.020	0.070	1		10/5/01	10/7/01	RKR	EPA 8020
o-Xylene	<0.025	mg/kg	0.0090	0.030	1		10/5/01	10/7/01	RKR	EPA 8020

CTI LAB#:	90707	Sample Description:	SHOT	Sampled:	10/2/01	1640
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
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WI DNR Lab Certification Number: 15-7066030
DATCP Certification Number: 105-000289

CTI LAB#:	90707	Sample Description:	SHOT	Sampled:	10/2/01	1640
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	99.9	%	N/A	N/A	1			10/5/01	KLM	EPA 5030A
Metals Results										
Arsenic	<0.52	mg/kg	0.52	1.7	1		10/5/01	10/8/01	NAH	EPA 6010B
Barium	2430	mg/kg	0.099	0.33	1		10/5/01	10/8/01	NAH	EPA 6010B
Cadmium	0.51	mg/kg	0.023	0.076	1		10/5/01	10/8/01	NAH	EPA 6010B
Chromium	37.0	mg/kg	0.060	0.20	1		10/5/01	10/8/01	NAH	EPA 6010B
Lead	3.3	mg/kg	0.21	0.70	1		10/5/01	10/8/01	NAH	EPA 6010B
Selenium	0.72	mg/kg	0.30 *	1.0	1		10/5/01	10/8/01	NAH	EPA 6010B
Silver	<0.070	mg/kg	0.070	0.23	1		10/5/01	10/8/01	NAH	EPA 6010B
Mercury	<0.0059	mg/kg	0.0059	0.020	1		10/6/01	10/8/01	NAH	EPA 7471

CTI LAB#:	90708	Sample Description:	BACKGROUND	Sampled:	10/2/01	1700
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	91.9	%	N/A	N/A	1			10/5/01	KLM	EPA 5030A
Metals Results										
Arsenic	1.2	mg/kg	0.56 *	1.9	1		10/5/01	10/8/01	NAH	EPA 6010B
Barium	58.8	mg/kg	0.11	0.36	1		10/5/01	10/8/01	NAH	EPA 6010B
Cadmium	0.094	mg/kg	0.025	0.082	1		10/5/01	10/8/01	NAH	EPA 6010B
Chromium	12.8	mg/kg	0.065	0.22	1		10/5/01	10/8/01	NAH	EPA 6010B
Lead	12.3	mg/kg	0.23	0.76	1		10/5/01	10/8/01	NAH	EPA 6010B
Silver	<0.076	mg/kg	0.076	0.25	1		10/5/01	10/8/01	NAH	EPA 6010B
Mercury	0.0096	mg/kg	0.0064 *	0.021	1		10/6/01	10/8/01	NAH	EPA 7471

CTI LAB#:	91619	Sample Description:	BACKGROUND	Sampled:	10/2/01	1700
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	91.90	%	N/A	N/A	1			10/10/01	ETK	EPA 5030A
Metals Results										
Selenium	1.1	mg/kg	0.33	1.1	1		10/5/01	10/8/01	NAH	EPA 6010B

WI DNR Lab Certification Number: 15-7066030
 DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

Notes: * Indicates Value in between LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.



Submitted by: _____

Record Reviewer

QC Qualifiers

<u>Code</u>	<u>Description</u>
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value. The result is less than the reporting limit, but greater than the MDL.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate and/or internal standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME/CLIENT			NO. OF CONTAINERS	Field Filtered:					REMARKS
10-1305-20		PDM-EAU CLAIRE				<div style="display: flex; justify-content: space-between;"> 10-5 8260 10-5 8260 10-5 8260 10-5 8260 </div>					
SAMPLERS: (Signature)											
SAMPLE NO.	DATE	TIME	COMP.	GRAB	SAMPLE LOCATION/ DESCRIPTION						
B1-3	10/26/01	2:15		1	B1-3	1	1				90698
B1-10		2:32			B1-10	1	1			SECRET	90699
B2-4		2:45			B2-4			1	(1)	MEDIA	90700
B2-10		3:00			B2-10			1	(1)	NOT NROS	90701
B3-7		3:15			B3-7			1	1	AK	90702 02
B3-10		3:40			B3-10			1	1	TRANSFER	90704 03 10-4-01
B4-7		4:00			B4-7			1	1		90705 04
B4-10		4:10			B4-10			1	1		90706 05
Blank					Blank			1	1		90707 06
Shot		4:40			Shot			1	1		90707
Background		5:00			Background			1	1		90708

Ayres Project Contact: Trevor Wilson Ayres Project Manager: Dennis Johnson

Invoice To: Terry Hazelton

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)
	10/3/01 3:00				
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)

Folder #: 20707

Company: AYRES ASSOCIATES

Project: PDM EAU CLAIRE

Logged By: ETK PM: ETK

Shipped on ice: yes no

Received on ice: yes no

Temp. if not received on ice: _____

COMMENTS: TEMPERATURE 24 °C

INITIALS KB

DATE 10-4-01 TIME 1052



pelists
0, Eau Claire, WI 54701-1590

ANALYTICAL REPORT

1 of 6

AYRES ASSOCIATES
 TERRI HAZELTON
 3433 OAKWOOD HILLS PKWY
 EAU CLAIRE, WI 54702

Project Name: PDM EAU CLAIRE
 Contract #: 1451
 Project #: 10-1305.40
 Folder #: 20919
 Purchase Order #:
 Arrival Temperature: See COC
 Report Date: 10/16/01
 Date Received: 10/12/01
 Reprint Date:

CTI LAB#:	91942	Sample Description:	B2-4	Sampled:	10/2/01	1445
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	95.10	%	N/A	N/A	1			10/15/01	ETK	EPA 5030A
Organic Results										
Acetone	0.28	mg/kg	0.14 *	0.46	1		10/5/01	10/15/01	RLD	EPA 8260
Benzene	<0.0053	mg/kg	0.0053	0.018	1		10/5/01	10/15/01	RLD	EPA 8260
Bromobenzene	<0.0074	mg/kg	0.0074	0.024	1		10/5/01	10/15/01	RLD	EPA 8260
Bromochloromethane	<0.0074	mg/kg	0.0074	0.023	1		10/5/01	10/15/01	RLD	EPA 8260
Bromodichloromethane	<0.0063	mg/kg	0.0063	0.022	1		10/5/01	10/15/01	RLD	EPA 8260
Bromoform	<0.0095	mg/kg	0.0095	0.033	1		10/5/01	10/15/01	RLD	EPA 8260
Bromomethane	<0.015	mg/kg	0.015	0.047	1		10/5/01	10/15/01	RLD	EPA 8260
2-Butanone	<0.13	mg/kg	0.13	0.42	1		10/5/01	10/15/01	RLD	EPA 8260
n-Butylbenzene	<0.0063	mg/kg	0.0063	0.021	1		10/5/01	10/15/01	RLD	EPA 8260
sec-Butylbenzene	<0.013	mg/kg	0.013	0.040	1		10/5/01	10/15/01	RLD	EPA 8260
tert-Butylbenzene	<0.011	mg/kg	0.011	0.035	1		10/5/01	10/15/01	RLD	EPA 8260
Carbon disulfide	<0.063	mg/kg	0.063	0.21	1		10/5/01	10/15/01	RLD	EPA 8260
Carbon tetrachloride	<0.012	mg/kg	0.012	0.040	1		10/5/01	10/15/01	RLD	EPA 8260
Chlorobenzene	<0.0074	mg/kg	0.0074	0.025	1		10/5/01	10/15/01	RLD	EPA 8260
Dibromochloromethane	<0.0063	mg/kg	0.0063	0.021	1		10/5/01	10/15/01	RLD	EPA 8260
Chloroethane	<0.011	mg/kg	0.011	0.035	1		10/5/01	10/15/01	RLD	EPA 8260
Chloroform	<0.0063	mg/kg	0.0063	0.022	1		10/5/01	10/15/01	RLD	EPA 8260
Chloromethane	<0.0095	mg/kg	0.0095	0.030	1		10/5/01	10/15/01	RLD	EPA 8260
2-Chlorotoluene	<0.0063	mg/kg	0.0063	0.020	1		10/5/01	10/15/01	RLD	EPA 8260

WI DNR Lab Certification Number: 15-7066030
 DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

CTI LAB#:	91942	Sample Description:	B2-4	Sampled:	10/2/01	1445
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
4-Chlorotoluene	<0.0063	mg/kg	0.0063	0.021	1		10/5/01	10/15/01	RLD	EPA 8260
1,2-Dibromo-3-chloropropane	<0.014	mg/kg	0.014	0.045	1		10/5/01	10/15/01	RLD	EPA 8260
1,2-Dibromoethane	<0.0074	mg/kg	0.0074	0.025	1		10/5/01	10/15/01	RLD	EPA 8260
Dibromomethane	<0.012	mg/kg	0.012	0.039	1		10/5/01	10/15/01	RLD	EPA 8260
1,2-Dichlorobenzene	<0.0063	mg/kg	0.0063	0.020	1		10/5/01	10/15/01	RLD	EPA 8260
1,3-Dichlorobenzene	<0.0063	mg/kg	0.0063	0.023	1		10/5/01	10/15/01	RLD	EPA 8260
1,4-Dichlorobenzene	<0.0063	mg/kg	0.0063	0.10	1		10/5/01	10/15/01	RLD	EPA 8260
Dichlorodifluoromethane	<0.0095	mg/kg	0.0095	0.030	1		10/5/01	10/15/01	RLD	EPA 8260
1,1-Dichloroethane	<0.0053	mg/kg	0.0053	0.019	1		10/5/01	10/15/01	RLD	EPA 8260
1,2-Dichloroethane	<0.019	mg/kg	0.019	0.063	1		10/5/01	10/15/01	RLD	EPA 8260
1,1-Dichloroethene	<0.0074	mg/kg	0.0074	0.026	1		10/5/01	10/15/01	RLD	EPA 8260
cis-1,2-Dichloroethene	<0.0084	mg/kg	0.0084	0.027	1		10/5/01	10/15/01	RLD	EPA 8260
trans-1,2-Dichloroethene	<0.0095	mg/kg	0.0095	0.029	1		10/5/01	10/15/01	RLD	EPA 8260
1,2-Dichloropropane	<0.015	mg/kg	0.015	0.049	1		10/5/01	10/15/01	RLD	EPA 8260
1,3-Dichloropropane	<0.0063	mg/kg	0.0063	0.020	1		10/5/01	10/15/01	RLD	EPA 8260
2,2-Dichloropropane	<0.0084	mg/kg	0.0084	0.026	1		10/5/01	10/15/01	RLD	EPA 8260
1,1-Dichloropropene	<0.012	mg/kg	0.012	0.037	1		10/5/01	10/15/01	RLD	EPA 8260
cis-1,3-Dichloropropene	<0.0063	mg/kg	0.0063	0.020	1		10/5/01	10/15/01	RLD	EPA 8260
trans-1,3-Dichloropropene	<0.0074	mg/kg	0.0074	0.025	1		10/5/01	10/15/01	RLD	EPA 8260
Diisopropyl ether	<0.0074	mg/kg	0.0074	0.024	1		10/5/01	10/15/01	RLD	EPA 8260
Ethylbenzene	<0.0042	mg/kg	0.0042	0.014	1		10/5/01	10/15/01	RLD	EPA 8260
Hexachlorobutadiene	<0.012	mg/kg	0.012	0.038	1		10/5/01	10/15/01	RLD	EPA 8260
2-Hexanone	<0.095	mg/kg	0.095	0.33	1		10/5/01	10/15/01	RLD	EPA 8260
Isopropylbenzene	<0.016	mg/kg	0.016	0.052	1		10/5/01	10/15/01	RLD	EPA 8260
p-Isopropyltoluene	<0.0042	mg/kg	0.0042	0.014	1		10/5/01	10/15/01	RLD	EPA 8260
Methyl tert-butyl ether	<0.012	mg/kg	0.012	0.038	1		10/5/01	10/15/01	RLD	EPA 8260
4-Methyl-2-pentanone	<0.11	mg/kg	0.11	0.34	1		10/5/01	10/15/01	RLD	EPA 8260
Methylene chloride	0.037	mg/kg	0.020 *	0.065	1	A,B	10/5/01	10/15/01	RLD	EPA 8260
Naphthalene	<0.015	mg/kg	0.015	0.048	1		10/5/01	10/15/01	RLD	EPA 8260
n-Propylbenzene	<0.0095	mg/kg	0.0095	0.034	1		10/5/01	10/15/01	RLD	EPA 8260
Styrene	<0.0042	mg/kg	0.0042	0.015	1		10/5/01	10/15/01	RLD	EPA 8260

WI DNR Lab Certification Number: 15-7066030

DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

CTI LAB#:	91942	Sample Description:	B2-4	Sampled:	10/2/01	1445
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
1,1,1,2-Tetrachloroethane	<0.0084	mg/kg	0.0084	0.027	1		10/5/01	10/15/01	RLD	EPA 8260
1,1,2,2-Tetrachloroethane	<0.0095	mg/kg	0.0095	0.032	1		10/5/01	10/15/01	RLD	EPA 8260
Tetrachloroethene	<0.0084	mg/kg	0.0084	0.027	1		10/5/01	10/15/01	RLD	EPA 8260
Tetrahydrofuran	<0.12	mg/kg	0.12	0.38	1		10/5/01	10/15/01	RLD	EPA 8260
Toluene	0.016	mg/kg	0.0063 *	0.022	1		10/5/01	10/15/01	RLD	EPA 8260
1,2,3-Trichlorobenzene	<0.0084	mg/kg	0.0084	0.028	1		10/5/01	10/15/01	RLD	EPA 8260
1,2,4-Trichlorobenzene	<0.0084	mg/kg	0.0084	0.026	1		10/5/01	10/15/01	RLD	EPA 8260
1,1,1-Trichloroethane	<0.011	mg/kg	0.011	0.036	1		10/5/01	10/15/01	RLD	EPA 8260
1,1,2-Trichloroethane	<0.0063	mg/kg	0.0063	0.032	1		10/5/01	10/15/01	RLD	EPA 8260
Trichloroethene	<0.011	mg/kg	0.011	0.037	1		10/5/01	10/15/01	RLD	EPA 8260
Trichlorofluoromethane	0.032	mg/kg	0.019 *	0.064	1		10/5/01	10/15/01	RLD	EPA 8260
1,2,3-Trichloropropane	<0.0084	mg/kg	0.0084	0.026	1		10/5/01	10/15/01	RLD	EPA 8260
1,2,4-Trimethylbenzene	0.0054	mg/kg	0.0053 *	0.017	1		10/5/01	10/15/01	RLD	EPA 8260
1,3,5-Trimethylbenzene	<0.0053	mg/kg	0.0053	0.017	1		10/5/01	10/15/01	RLD	EPA 8260
Vinyl chloride	<0.0074	mg/kg	0.0074	0.024	1		10/5/01	10/15/01	RLD	EPA 8260
m & p-Xylene	0.015	mg/kg	0.014 *	0.046	1		10/5/01	10/15/01	RLD	EPA 8260
o-Xylene	<0.0053	mg/kg	0.0053	0.019	1		10/5/01	10/15/01	RLD	EPA 8260

CTI LAB#:	91943	Sample Description:	B2-10	Sampled:	10/2/01	1500
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	96.80	%	N/A	N/A	1			10/15/01	ETK	EPA 5030A
Organic Results										
Acetone	<0.13	mg/kg	0.13	0.45	1		10/5/01	10/15/01	RLD	EPA 8260
Benzene	<0.0052	mg/kg	0.0052	0.018	1		10/5/01	10/15/01	RLD	EPA 8260
Bromobenzene	<0.0072	mg/kg	0.0072	0.024	1		10/5/01	10/15/01	RLD	EPA 8260
Bromochloromethane	<0.0072	mg/kg	0.0072	0.023	1		10/5/01	10/15/01	RLD	EPA 8260
Bromodichloromethane	<0.0062	mg/kg	0.0062	0.022	1		10/5/01	10/15/01	RLD	EPA 8260
Bromoform	<0.0093	mg/kg	0.0093	0.032	1		10/5/01	10/15/01	RLD	EPA 8260
Bromomethane	<0.014	mg/kg	0.014	0.046	1		10/5/01	10/15/01	RLD	EPA 8260
2-Butanone	<0.12	mg/kg	0.12	0.41	1		10/5/01	10/15/01	RLD	EPA 8260

WI DNR Lab Certification Number: 15-7066030
DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

CTI LAB#:	91943	Sample Description:	B2-10	Sampled:	10/2/01	1500
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep	Analysis	Analyst	Method
							Date	Date		
n-Butylbenzene	<0.0062	mg/kg	0.0062	0.021	1		10/5/01	10/15/01	RLD	EPA 8260
sec-Butylbenzene	<0.012	mg/kg	0.012	0.039	1		10/5/01	10/15/01	RLD	EPA 8260
tert-Butylbenzene	<0.010	mg/kg	0.010	0.034	1		10/5/01	10/15/01	RLD	EPA 8260
Carbon disulfide	<0.062	mg/kg	0.062	0.21	1		10/5/01	10/15/01	RLD	EPA 8260
Carbon tetrachloride	<0.011	mg/kg	0.011	0.039	1		10/5/01	10/15/01	RLD	EPA 8260
Chlorobenzene	<0.0072	mg/kg	0.0072	0.025	1		10/5/01	10/15/01	RLD	EPA 8260
Dibromochloromethane	<0.0062	mg/kg	0.0062	0.021	1		10/5/01	10/15/01	RLD	EPA 8260
Chloroethane	<0.010	mg/kg	0.010	0.034	1		10/5/01	10/15/01	RLD	EPA 8260
Chloroform	<0.0062	mg/kg	0.0062	0.022	1		10/5/01	10/15/01	RLD	EPA 8260
Chloromethane	<0.0093	mg/kg	0.0093	0.030	1		10/5/01	10/15/01	RLD	EPA 8260
2-Chlorotoluene	<0.0062	mg/kg	0.0062	0.020	1		10/5/01	10/15/01	RLD	EPA 8260
4-Chlorotoluene	<0.0062	mg/kg	0.0062	0.021	1		10/5/01	10/15/01	RLD	EPA 8260
1,2-Dibromo-3-chloropropane	<0.013	mg/kg	0.013	0.044	1		10/5/01	10/15/01	RLD	EPA 8260
1,2-Dibromoethane	<0.0072	mg/kg	0.0072	0.025	1		10/5/01	10/15/01	RLD	EPA 8260
Dibromomethane	<0.011	mg/kg	0.011	0.038	1		10/5/01	10/15/01	RLD	EPA 8260
1,2-Dichlorobenzene	<0.0062	mg/kg	0.0062	0.020	1		10/5/01	10/15/01	RLD	EPA 8260
1,3-Dichlorobenzene	<0.0062	mg/kg	0.0062	0.023	1		10/5/01	10/15/01	RLD	EPA 8260
1,4-Dichlorobenzene	<0.0062	mg/kg	0.0062	0.099	1		10/5/01	10/15/01	RLD	EPA 8260
Dichlorodifluoromethane	<0.0093	mg/kg	0.0093	0.030	1		10/5/01	10/15/01	RLD	EPA 8260
1,1-Dichloroethane	<0.0052	mg/kg	0.0052	0.019	1		10/5/01	10/15/01	RLD	EPA 8260
1,2-Dichloroethane	<0.019	mg/kg	0.019	0.062	1		10/5/01	10/15/01	RLD	EPA 8260
1,1-Dichloroethene	<0.0072	mg/kg	0.0072	0.026	1		10/5/01	10/15/01	RLD	EPA 8260
cis-1,2-Dichloroethene	<0.0083	mg/kg	0.0083	0.027	1		10/5/01	10/15/01	RLD	EPA 8260
trans-1,2-Dichloroethene	<0.0093	mg/kg	0.0093	0.029	1		10/5/01	10/15/01	RLD	EPA 8260
1,2-Dichloropropane	<0.014	mg/kg	0.014	0.049	1		10/5/01	10/15/01	RLD	EPA 8260
1,3-Dichloropropane	<0.0062	mg/kg	0.0062	0.020	1		10/5/01	10/15/01	RLD	EPA 8260
2,2-Dichloropropane	<0.0083	mg/kg	0.0083	0.026	1		10/5/01	10/15/01	RLD	EPA 8260
1,1-Dichloropropene	<0.011	mg/kg	0.011	0.036	1		10/5/01	10/15/01	RLD	EPA 8260
cis-1,3-Dichloropropene	<0.0062	mg/kg	0.0062	0.020	1		10/5/01	10/15/01	RLD	EPA 8260
trans-1,3-Dichloropropene	<0.0072	mg/kg	0.0072	0.025	1		10/5/01	10/15/01	RLD	EPA 8260
Diisopropyl ether	<0.0072	mg/kg	0.0072	0.024	1		10/5/01	10/15/01	RLD	EPA 8260

WI DNR Lab Certification Number: 15-7066030

DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

CTI LAB#:	91943	Sample Description:	B2-10	Sampled:	10/2/01	1500
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Ethylbenzene	<0.0041	mg/kg	0.0041	0.013	1		10/5/01	10/15/01	RLD	EPA 8260
Hexachlorobutadiene	<0.011	mg/kg	0.011	0.037	1		10/5/01	10/15/01	RLD	EPA 8260
2-Hexanone	<0.093	mg/kg	0.093	0.32	1		10/5/01	10/15/01	RLD	EPA 8260
Isopropylbenzene	<0.015	mg/kg	0.015	0.051	1		10/5/01	10/15/01	RLD	EPA 8260
p-Isopropyltoluene	<0.0041	mg/kg	0.0041	0.013	1		10/5/01	10/15/01	RLD	EPA 8260
Methyl tert-butyl ether	<0.011	mg/kg	0.011	0.037	1		10/5/01	10/15/01	RLD	EPA 8260
4-Methyl-2-pentanone	<0.10	mg/kg	0.10	0.33	1		10/5/01	10/15/01	RLD	EPA 8260
Methylene chloride	<0.020	mg/kg	0.020	0.064	1		10/5/01	10/15/01	RLD	EPA 8260
Naphthalene	<0.014	mg/kg	0.014	0.048	1		10/5/01	10/15/01	RLD	EPA 8260
n-Propylbenzene	<0.0093	mg/kg	0.0093	0.033	1		10/5/01	10/15/01	RLD	EPA 8260
Styrene	<0.0041	mg/kg	0.0041	0.014	1		10/5/01	10/15/01	RLD	EPA 8260
1,1,1,2-Tetrachloroethane	<0.0083	mg/kg	0.0083	0.027	1		10/5/01	10/15/01	RLD	EPA 8260
1,1,2,2-Tetrachloroethane	<0.0093	mg/kg	0.0093	0.031	1		10/5/01	10/15/01	RLD	EPA 8260
Tetrachloroethene	<0.0083	mg/kg	0.0083	0.027	1		10/5/01	10/15/01	RLD	EPA 8260
Tetrahydrofuran	<0.11	mg/kg	0.11	0.37	1		10/5/01	10/15/01	RLD	EPA 8260
Toluene	<0.0062	mg/kg	0.0062	0.022	1		10/5/01	10/15/01	RLD	EPA 8260
1,2,3-Trichlorobenzene	<0.0083	mg/kg	0.0083	0.028	1		10/5/01	10/15/01	RLD	EPA 8260
1,2,4-Trichlorobenzene	<0.0083	mg/kg	0.0083	0.026	1		10/5/01	10/15/01	RLD	EPA 8260
1,1,1-Trichloroethane	<0.010	mg/kg	0.010	0.035	1		10/5/01	10/15/01	RLD	EPA 8260
1,1,2-Trichloroethane	<0.0062	mg/kg	0.0062	0.031	1		10/5/01	10/15/01	RLD	EPA 8260
Trichloroethene	<0.010	mg/kg	0.010	0.036	1		10/5/01	10/15/01	RLD	EPA 8260
Trichlorofluoromethane	<0.019	mg/kg	0.019	0.063	1		10/5/01	10/15/01	RLD	EPA 8260
1,2,3-Trichloropropane	<0.0083	mg/kg	0.0083	0.026	1		10/5/01	10/15/01	RLD	EPA 8260
1,2,4-Trimethylbenzene	<0.0052	mg/kg	0.0052	0.017	1		10/5/01	10/15/01	RLD	EPA 8260
1,3,5-Trimethylbenzene	<0.0052	mg/kg	0.0052	0.017	1		10/5/01	10/15/01	RLD	EPA 8260
Vinyl chloride	<0.0072	mg/kg	0.0072	0.024	1		10/5/01	10/15/01	RLD	EPA 8260
m & p-Xylene	<0.013	mg/kg	0.013	0.045	1		10/5/01	10/15/01	RLD	EPA 8260
o-Xylene	<0.0052	mg/kg	0.0052	0.019	1		10/5/01	10/15/01	RLD	EPA 8260

WI DNRLab Certification Number: 15-7066030

DATCP Certification Number: 105-000289

CTI LAB#:	91944	Sample Description:	SHOT	Sampled:	10/2/01	1640
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Metals Results										
TCLP Barium	<100	mg/L	0.00038	0.0013	1		10/13/01	10/15/01	NAH	EPA 6010B
TCLP Chromium	<5.0	mg/L	0.00071	0.0024	1		10/13/01	10/15/01	NAH	EPA 6010B
TCLP Lead	<5.0	mg/L	0.0014	0.0046	1		10/13/01	10/15/01	NAH	EPA 6010B

Notes regarding entire Chain of Custody: SEE ORIGINAL FOLDER 20707

Notes: * Indicates Value in between LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.



Submitted by: _____

Record Reviewer

QC Qualifiers

Code Description

- A Analyte averaged calibration criteria within acceptable limits.
- B Analyte detected in associated Method Blank.
- C Toxicity present in BOD sample.
- D Diluted Out.
- E Safe, No Total Coliform detected.
- F Unsafe, Total Coliform detected, no E. Coli detected.
- G Unsafe, Total Coliform detected and E. Coli detected.
- H Holding time exceeded.
- J Estimated value. The result is less than the reporting limit, but greater than the MDL.
- L Significant peaks were detected outside the chromatographic window.
- M Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
- N Insufficient BOD oxygen depletion.
- O Complete BOD oxygen depletion.
- P Concentration of analyte differs more than 40% between primary and confirmation analysis.
- Q Laboratory Control Sample outside acceptance limits.
- R See Narrative at end of report.
- S Surrogate and/or internal standard recovery outside acceptance limits due to apparent matrix effects.
- T Sample received with improper preservation or temperature.
- V Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
- W Sample amount received was below program minimum.
- X Analyte exceeded calibration range.
- Y Replicate/Duplicate precision outside acceptance limits.
- Z Calibration criteria exceeded.

Appendix D
Wisconsin Department of Natural Resources
Soil and Ground Water Standards

Subchapter II — Groundwater Quality Standards

NR 140.10 Public health related groundwater standards. The groundwater quality standards for substances of public health concern are listed in Table 1.

Note: For all substances that have carcinogenic, mutagenic or teratogenic properties or interactive effects, the preventive action limit is 10% of the enforcement standard. The preventive action limit is 20% of the enforcement standard for all other substances that are of public health concern. Enforcement standards and preventive action limits for additional substances will be added to Table 1 as recommendations are developed pursuant to ss. 160.07, 160.13 and 160.15, Stats.

Table 1
Public Health Groundwater Quality Standards

Substance ¹	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Acetone	1000	200
Alachlor	2	0.2
Aldicarb	10	2
Antimony	6	1.2
Anthracene	3000	600
Arsenic	50	5
Asbestos	7 million fibers per liter (MFL)	0.7 MFL
Atrazine, total chlorinated residues	3 ²	0.3 ²
Bacteria, Total Coliform	0 ³	0 ³
Barium	2 milligrams/liter (mg/l)	0.4 mg/l
Bentazon	300	60
Benzene	5	0.5
Benzo(b)fluoranthene	0.2	0.02
Benzo(a)pyrene	0.2	0.02
Beryllium	4	0.4
Boron	960	190
Bromodichloromethane	0.6	0.06
Bromoform	4.4	0.44
Bromomethane	10	1
Butylate	67	6.7
Cadmium	5	0.5
Carbaryl	960	192
Carbofuran	40	8
Carbon disulfide	1000	200
Carbon tetrachloride	5	0.5
Chloramben	150	30
Chlordane	2	0.2
Chloroethane	400	80
Chloroform	6	0.6
Chloromethane	3	0.3
Chromium	100	10
Chrysene	0.2	0.02
Cobalt	40	8
Copper	1300	130
Cyanazine	1	0.1
Cyanide	200	40
Dacthal	4 mg/l	0.8 mg/l
1,2-Dibromoethane (EDB)	0.05	0.005
Dibromochloromethane	60	6
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02
Dibutyl phthalate	100	20
Dicamba	300	60
1,2-Dichlorobenzene	600	60
1,3-Dichlorobenzene	1250	125
1,4-Dichlorobenzene	75	15
Dichlorodifluoromethane	1000	200
1,1-Dichloroethane	850	85

Table 1 (cont.)
Public Health Groundwater Quality Standards

Substance ¹	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
1,2-Dichloroethane	5	0.5
1,1-Dichloroethylene	7	0.7
1,2-Dichloroethylene (cis)	70	7
1,2-Dichloroethylene (trans)	100	20
2,4-Dichlorophenoxyacetic Acid (2,4-D)	70	7
1,2-Dichloropropane	5	0.5
1,3-Dichloropropene (cis/trans)	0.2	0.02
Di (2-ethylhexyl) phthalate	6	0.6
Dimethoate	2	0.4
2,4-Dinitrotoluene	0.05	0.005
2,6-Dinitrotoluene	0.05	0.005
Dinoseb	7	1.4
Dioxin (2, 3, 7, 8-TCDD)	0.00003	0.000003
Endrin	2	0.4
EPTC	250	50
Ethylbenzene	700	140
Ethylene glycol	7 mg/l	0.7 mg/l
Fluoranthene	400	80
Fluorene	400	80
Fluoride	4 mg/l	0.8 mg/l
Fluorotrichloromethane	3490	698
Formaldehyde	1000	100
Heptachlor	0.4	0.04
Heptachlor epoxide	0.2	0.02
Hexachlorobenzene	1	0.1
N-Hexane	600	120
Hydrogen sulfide	30	6
Lead	15	1.5
Lindane	0.2	0.02
Mercury	2	0.2
Methanol	5000	1000
Methoxychlor	40	4
Methylene chloride	5	0.5
Methyl ethyl ketone (MEK)	460	90
Methyl isobutyl ketone (MIBK)	500	50
Methyl tert-butyl ether (MTBE)	60	12
Metolachlor	15	1.5
Metribuzin	250	50
Monochlorobenzene	100	20
Naphthalene	40	8
Nickel	100	20
Nitrate (as N)	10 mg/l	2 mg/l
Nitrate + Nitrite (as N)	10 mg/l	2 mg/l
Nitrite (as N)	1 mg/l	0.2 mg/l
N-Nitrosodiphenylamine	7	0.7
Pentachlorophenol (PCP)	1	0.1
Phenol	6 mg/l	1.2 mg/l
Picloram	500	100
Polychlorinated biphenyls (PCBs)	0.03	0.003
Prometon	90	18
Pyrene	250	50
Pyridine	10	2

Table 1 (cont.)
Public Health Groundwater Quality Standards

Substance ¹	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Selenium	50	10
Silver	50	10
Simazine	4	0.4
Styrene	100	10
1,1,1,2-Tetrachloroethane	70	7
1,1,2,2-Tetrachloroethane	0.2	0.02
Tetrachloroethylene	5	0.5
Tetrahydrofuran	50	10
Thallium	2	0.4
Toluene	1 mg/l	0.2 mg/l
Toxaphene	3	0.3
1,2,4-Trichlorobenzene	70	14
1,1,1-Trichloroethane	200	40
1,1,2-Trichloroethane	5	0.5
Trichloroethylene (TCE)	5	0.5
2,4,5-Trichlorophenoxy-propionic acid (2,4,5-TP)	50	5
1,2,3-Trichloropropane	60	12
Trifluralin	7.5	0.75
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	480	96
Vanadium	30	6
Vinyl chloride	0.2	0.02
Xylene ⁴	10 mg/l	1 mg/l

¹ Appendix I contains Chemical Abstract Service (CAS) registry numbers, common synonyms and trade names for most substances listed in Table 1.

² Total chlorinated atrazine residues includes parent compound and the following metabolites of health concern: 2-chloro-4-amino-6-isopropylamino-s-triazine (formerly deethylatrazine), 2-chloro-4-amino-6-ethylamino-s-triazine (formerly deisopropylatrazine) and 2-chloro-4,6-diamino-s-triazine (formerly diaminoatrazine).

³ Total coliform bacteria may not be present in any 100 ml sample using either the membrane filter (MF) technique, the presence-absence (P-A) coliform test, the minimal medium ONPG-MUG (MMO-MUG) test or not present in any 10 ml portion of the 10-tube multiple tube fermentation (MTF) technique.

⁴ Xylene includes meta-, ortho-, and para-xylene combined. The preventive action limit has been set at a concentration that is intended to address taste and odor concerns associated with this substance.

History: Cr. Register, September, 1985, No. 357, eff. 10-1-85; am. table 1, Register, October, 1988, No. 394, eff. 11-1-88; am. table 1, Register, September, 1990, No. 417, eff. 10-1-90; am. Register, January, 1992, No. 433, eff. 2-1-92; am. Table 1, Register, March, 1994, No. 459, eff. 4-1-94; am. Table 1, Register, August, 1995, No. 476, eff. 9-1-95; am. Table 1, Register, December, 1998, No. 516, eff. 1-1-99; am. Table 1, boron, Register, December, 1998, No. 516, eff. 12-31-99; am. Table 1, Register, March, 2000, No. 531, eff. 4-1-00.

NR 140.12 Public welfare related groundwater standards. The groundwater quality standards for substances of public welfare concern are listed in Table 2.

Note: For each substance of public welfare concern, the preventive action limit is 50% of the established enforcement standard.

Table 2
Public Welfare Groundwater Quality Standards

Substance	Enforcement Standard (milligrams per liter – except as noted)	Preventive Action Limit (milligrams per liter – except as noted)
Chloride	250	125
Color	15 color units	7.5 color units
Foaming agents MBAS (Methylene-Blue Active Substances)	0.5	0.25
Iron	0.3	0.15
Manganese	0.05	0.025
Odor	3 (Threshold Odor No.)	1.5 (Threshold Odor No.)
Sulfate	250	125
Zinc	5	2.5

History: Cr. Register, September, 1985, No. 357, eff. 10-1-85; am. table 2, Register, October, 1990, No. 418, eff. 11-1-90; am. Table 2, Register, March, 1994, No. 459, eff. 4-1-94.

NR 140.14 Statistical procedures. (1) If a preventive action limit or an enforcement standard for a substance listed in

noncarcinogens. These levels are intended to be analogous with the preventive action limits in ch. NR 140.

(4) **SITE-SPECIFIC PROCESS.** Except as provided in sub. (5), if one or more of the criteria in sub. (2) are not met, responsible parties shall use the procedure in s. NR 720.19 to determine soil cleanup standards specific to a site or facility based on protection from direct contact.

(5) **EXCEPTIONS.** (a) For sites contaminated with petroleum products discharged from petroleum storage tanks:

1. If residual concentrations of benzene and 1,2-dichloroethane are below the soil contaminant concentrations in Table 2 in s. NR 746.06 (2) and residual concentrations of ethylbenzene, toluene, xylene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and naphthalene are below the soil screening levels in Table 1 in s. NR 746.06 (2), responsible parties are not required to satisfy the requirements in s. NR 720.19 and are not required to determine a site-specific direct residual contaminant level or site-specific soil cleanup standard for these substances for the purpose of complying with the provisions in s. NR 720.07 (1)(a) and (b).

2. If the site does not meet the requirements of subd. 1 but meets the risk screening criteria in s. NR 746.06 (2) (b) and (c), the responsible party shall obtain prior approval from the agency with administrative authority for the site before taking any action to address a direct contact threat other than the use of a performance standard under s. NR 720.19 (2).

(b) If the background concentration for a substance in soil at a site or facility is higher than the residual contaminant level for that substance listed in Table 2 or determined using the procedure in s. NR 720.19 (3), the background concentration in soil may be used as the residual contaminant level for that substance. The background concentration for a substance in soil shall be determined using a department-approved and appropriate method.

Note: Naturally occurring background concentrations of arsenic in soil, for example, may be higher than the residual contaminant level for arsenic listed in Table 2. In such instances, the naturally occurring background concentration should be used as the soil cleanup level.

Table 2
Residual Contaminant Levels Based On
Human Health Risk From Direct Contact Related To Land Use
(milligrams per kilogram)

Substance	Non-Industrial	Industrial	Basis
Arsenic	0.039	1.6	cancer
Cadmium	8	510	noncancer
Chromium, hexavalent	14	200	cancer
Chromium, trivalent	16,000	NA	noncancer
Lead	50	500	noncancer

NA= Not applicable

Note: Milligrams per kilogram (mg/kg) is equivalent to parts per million (ppm) in soil. Soil concentrations are on a dry weight basis.

Note: The residual contaminant levels in Table 2 are based on protection of human health from direct contact through ingestion of soil or inhalation of particulate matter. These concentrations of hazardous substances in soil may not be protective of other pathways of concern. The definition of direct contact will be expanded in future revisions to include human exposures by inhalation of vapors and dermal absorption. In addition, these levels may be higher than those which would be characteristic of hazardous waste when tested using the toxicity characteristic leaching procedure (TCLP), U.S. EPA Method 1311.

History: Cr. Register, March, 1995, No. 471, eff. 4-1-95; am. (4) and (5), Register, January, 2001, No. 541, eff. 2-1-01.

NR 720.19 Procedure for determining soil cleanup standards specific to a site or facility. (1) **GENERAL.** (a) Responsible parties shall propose a soil cleanup standard specific to a site or facility in accordance with the requirements of this section when required in ss. NR 720.09 to 720.11 or if it is determined that it is not practicable to achieve the residual contaminant level for a soil

contaminant specified in ss. NR 720.09 to 720.11 using on-site remedial action or, if the responsible party chooses to utilize off-site remedial actions, using off-site remedial action or a combination of on-site and off-site remedial actions at a site or facility.

(b) Responsible parties shall establish a soil cleanup standard for a specific soil contaminant or physical location at a site or facility using one of the methods in sub. (2) or (3).

(2) **PERFORMANCE STANDARD.** If selected, a performance standard shall be established for a remedial action so that the remedial action is operated and maintained, in compliance with chs. NR 722 and 724 when those chapters are applicable to the site or facility, until the lowest concentration that is practicable is achieved or a permanent engineering control is maintained, or both, so that the residual contaminants left in the soil do not pose a threat to public health, safety and welfare or the environment.

Note: Examples of performance standards include the allowable rate of infiltration by soil contaminants into the groundwater after a membrane liner has been installed, or the rate or percentage of removal efficiency offered by an in-situ treatment system at a specific site or facility. At a site or facility where an engineering control is being considered for selection, in accordance with the requirements of ch. NR 722, an engineering control may be selected even though the soil contaminants exceed a residual contaminant level.

(3) **RESIDUAL CONTAMINANT LEVELS SPECIFIC TO A SITE OR FACILITY.** If selected, residual contaminant levels specific to a site or facility shall be established that are protective of public health, safety and welfare and the environment and restore the environment to the lowest concentration practicable, in accordance with the requirements of sub. (4) to (6). Even in cases where the procedure in sub. (3) is selected by the responsible party, the procedure in sub. (2) may be used when the residual contaminant levels established under sub. (3) are not practicable to achieve.

(4) **PROTECTION OF GROUNDWATER.** (a) Residual contaminant levels for soil based on protection of groundwater shall be developed using the preventive action limits (PALs) established in ch. NR 140 or using procedures consistent with the methodology in ss. 160.13 and 160.15, Stats., and the criteria in s. NR 722.09 (2) (b) 2. when there is no preventive action limit as the target concentrations in groundwater.

Note: In developing a residual contaminant level, any relevant information shall be considered, including public welfare concerns for groundwater, such as taste and odor.

(b) Responsible parties shall use one or more of the methods listed in this paragraph based on scientifically valid procedures that are subject to department review and approval and site-specific geological, physical and chemical conditions to establish residual contaminant levels.

1. A contaminant transport and fate model.

2. Leaching tests appropriate for the site or facility in both application and extent.

3. Any other appropriate method approved by the department for that specific site or facility, or other appropriate method suggested in department guidance.

(5) **PROTECTION OF HUMAN HEALTH FROM DIRECT CONTACT.** (a) **General.** Residual contaminant levels for soil based on protection of human health from direct contact shall be developed:

1. For individual compounds using the excess cancer risk of 1×10^{-6} and the hazard quotient for non-carcinogens of one; and

2. So that the cumulative excess cancer risk will not exceed 1×10^{-5} and the hazard index for non-carcinogens will not exceed one for the site or facility.

3. Risks for carcinogens and for non-carcinogens are presumed to be additive within each category, unless there is specific information that demonstrates that an alternative approach is more appropriate.

4. If toxicological indices for both carcinogenic and non-carcinogenic end points exist for a substance, both shall be evaluated and the value that generates the lowest residual contaminant level shall be used for the site or facility.

Table I
Maximum Concentration of Contaminants for the Toxicity Characteristic

EPA HW No. ¹	Contaminant	CAS No. ²	Regulatory Level (mg/L)
D004	Arsenic	7440-38-2	5.0
D005	Barium	7440-39-3	100.0
D018	Benzene	0071-43-2	0.5
D006	Cadmium	7440-43-9	1.0
D019	Carbon tetrachloride	0056-23-5	0.5
D020	Chlordane	0057-74-9	0.03
D021	Chlorobenzene	0108-90-7	100.0
D022	Chloroform	0067-66-3	6.0
D007	Chromium	7440-47-3	5.0
D023	o-Cresol	0095-48-7	4200.0
D024	m-Cresol	0108-39-4	4200.0
D025	p-Cresol	0106-44-5	4200.0
D026	Cresol	4200.0
D016	2,4-D	0094-75-7	10.0
D027	1,4-Dichlorobenzene	0106-46-7	7.5
D028	1,2-Dichloroethane	0107-06-2	0.5
D029	1,1-Dichloroethylene	0075-35-4	0.7
D030	2,4-Dinitrotoluene	0121-14-2	30.13
D012	Endrin	0072-20-8	0.02
D031	Heptachlor (and its epoxide)	0076-44-8	0.008
D032	Hexachlorobenzene	0118-74-1	30.13
D033	Hexachlorobutadiene	0087-68-3	0.5
D034	Hexachloroethane	0067-72-1	3.0
D008	Lead	7439-92-1	5.0
D013	Lindane	0058-89-9	0.4
D009	Mercury	7439-97-6	0.2
D014	Methoxychlor	0072-43-5	10.0
D035	Methyl ethyl ketone	0078-93-3	200.0
D036	Nitrobenzene	0098-95-3	2.0
D037	Pentachlorophenol	0087-86-5	100.0
D038	Pyridine	0110-86-1	35.0
D010	Selenium	7782-49-2	1.0
D011	Silver	7440-22-4	5.0
D039	Tetrachloroethylene	0127-18-4	0.7
D015	Toxaphene	8001-35-2	0.5
D040	Trichloroethylene	0079-01-6	0.5
D041	2,4,5-Trichlorophenol	0095-95-4	400.0
D042	2,4,6-Trichlorophenol	0088-06-2	2.0
D017	2,4,5-TP (Silvex)	0093-72-1	1.0
D043	Vinyl chloride	0075-01-4	0.2

¹Hazardous waste number.

²Chemical abstracts service number.

³Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

⁴If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

History: Cr. Register, February, 1991, No. 422, eff. 3-1-91; am. (1) (b), (2) (a) 1., (b), (3) (b), (4) (a) 8., (b), (5) (a) and (b), r. and recr. (5) table 1, Register, August, 1992, No. 440, eff. 9-1-92; am. (5) (a), Register, April, 1994, No. 460, eff. 5-1-94; am. (3) (a) 1., 2., r. and recr. (5) (b) Table 1, Register, May, 1995, No. 473, eff. 6-1-95; correction in (1) (a) made under s. 13.93 (2m) (b) 7., Stats., Register, May, 1995, No. 473; am. (2) (a) 1. and 3., (3) (a) 1. and 2. and (5) (a), Register, May, 1998, No. 509, eff. 6-1-98.

NR 605.09 Lists of hazardous wastes. (1) GENERAL.

(a) A solid waste is a hazardous waste if it is listed in this section, unless it has been excluded from the lists under s. NR 605.10.

(b) The department has indicated the basis for listing the classes or types of wastes listed in this section by employing one or more of the following hazard codes:

1. Ignitable waste (I)
2. Corrosive waste (C)
3. Reactive waste (R)
4. Toxicity characteristic waste (E)
5. Acute hazardous waste (H)
6. Toxic waste (T)

Note: Appendix III identifies the constituent which caused the department to list the waste as a toxicity characteristic waste (E) or toxic waste (T) in sub. (2) (a) and (b).

(c) Each hazardous waste listed in subs. (2) and (3) is assigned a hazardous waste number which precedes the name of the waste. This number shall be used in complying with the notification requirements of s. NR 600.05 and recordkeeping requirements under chs. NR 610, 615, 620 and 630.

(d) The following hazardous wastes listed in table II of sub. (2) are acute hazardous wastes subject to the exclusion limits established in s. NR 610.09:

1. Hazardous waste numbers F020, F021, F022 and F023; and
2. Hazardous waste numbers F026 and F027.

(2) HAZARDOUS WASTE SOURCES. (a) Solid waste from non-specific sources is a hazardous waste if it is listed in table II.

Executive Summary

Friedman Fleischer & Lowe, LLC (FFL Partners), One Maritime Plaza, 10th Floor, San Francisco, California 94111 is considering purchase of PDM Bridge facilities located in Eau Claire and Wausau, Wisconsin and Palatka, Florida. FFL Partners retained Ayres Associates to conduct Phase I Environmental Site Assessments (ESA) of these facilities. This report addresses the facility at 2800 Melby Street in Eau Claire, Wisconsin.

We prepared this Phase I ESA following procedures established by the American Society for Testing and Materials (ASTM). The ASTM publication that documents the ESA procedures is entitled *E1527-00 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The scope of services is in Appendix A.

Summary of Findings

The PDM Bridge facility in Eau Claire, Wisconsin, fabricates steel bridge girders and associated members. Products are fabricated from raw steel materials shipped to the facility and stored on site. Following fabrication, the products are shot blasted, painted, and prepared for shipment.

The following summary of findings is based on a site reconnaissance visit to view the subject property and adjoining properties, review of regulatory records and historical documents, and interviews conducted during this ESA:

- The subject property is a 61-acre parcel in the North $\frac{1}{2}$ of the Southwest $\frac{1}{4}$ of Section 33, Township 28N, Range 9 West, Chippewa County, Eau Claire, Wisconsin. The property is located in an industrial park area and is east of the Chippewa Valley Regional Airport. Access to the site is from Melby Street and White Avenue. Railcar access is along White Avenue.
- Review of city directories, aerial photographs, and interviews indicate that the subject property has historically been used as a steel fabrication plant since the late 1960s. Prior to this use, the property was farmland with a few residences.
- Improvements to the property include seven steel frame buildings used for maintenance shop, steel fabrication, painting, and materials storage purposes, and two brick buildings including the business office and scale office. Buildings were constructed in stages between the late 1960s and 1990. Natural gas, municipal sewer and water, and storm water drainage systems serve the property.
- Exterior features include a rail spur at the east side of the property, asphalt paved parking lots north of the office and south of building 1, numerous gravel haul roads, and storage areas that include raw steel materials, finished products, and used equipment.
- Site topography is flat and at approximately elevation 885 NGVD. The depth to ground water is approximately 63 feet and the flow direction is to the west. The National Presto Industries (NPI) Superfund site has affected the ground water beneath the property. Six monitoring wells are on the subject property and these wells are monitored periodically by NPI.
- Environmental data base searches and interviews with regulatory agencies revealed evidence of current recognized environmental conditions along with historical recognized environmental conditions on the subject property. The facility is a large quantity hazardous waste generator (LQG). Other conditions noted include leaking underground

storage tanks, spills, and presence of underground storage tanks. As of today, all of these conditions have been resolved

- Nine aboveground storage tanks (ASTs) are currently on the subject property and these tanks are not registered with the Wisconsin Department of Commerce.
- PDM Bridge retains United States Compliance Corporation to assist with preparing compliance documents. Documents that were reviewed at the facility appear to be current, although there does not appear to be a Spill Prevention Control and Countermeasure (SPCC) plan.
- The site walkthrough revealed no obvious evidence of asbestos-containing materials, although office building materials, such as floor and ceiling tiles, and drywall materials may potentially contain asbestos
- Max Phillips & Son, the neighboring property to the south, currently has two active underground storage tanks (USTs), documented heavy metal and organic soil contamination associated with salvage activities, and historical recognized environmental conditions pertaining to closed leaking underground storage tanks (LUST) and spill cases.

Conclusions

We performed this Phase I ESA of the PDM Bridge facility in Eau Claire, Wisconsin, in conformance with the scope and limitations of ASTM Practice E 1527-00. Any exceptions to, or deletions from, this practice are described in the "Limitations and Exceptions of Assessment" section of this report. This ESA revealed the following recognized environmental conditions (REC) for this property:

- The subject property is a large quantity hazardous waste generator due to painting activities
- Petroleum products are stored in nine ASTs on the subject property
- National Presto Industries is affecting ground water beneath the subject property
- The south adjoining property, Max Phillips & Son salvage yard, currently contains two USTs and heavy metal and organic soil contamination that could potentially migrate to the subject property

The following historical recognized environmental conditions (HREC) were revealed on the subject property:

- The subject property was formerly a LUST site. LUST activities were closed in 1993 with a deed restriction placed on the property.
- Paint was formerly discarded in a pit on site. The pit has been remediated according to PDM Bridge current employees.
- In 1986, the property was listed as a spill site due to a release to the air. No action was required.
- In 1999, the property was again listed as a spill site due to a fuel oil spill. The spill was contained and recovered.

Additional business considerations:

- None of the nine ASTs on the subject property are registered with the Wisconsin Department of Commerce. The waste oil, diesel, and gasoline ASTs need to be registered.
- There does not appear to be a current SPCC plan for oil product storage at the facility.

Introduction

Friedman Fleischer & Lowe, LLC (FFL Partners), One Maritime Plaza, 10th Floor, San Francisco, CA 94111, is considering purchase of PDM Bridge facilities located in Eau Claire and Wausau, Wisconsin, and Palatka, Florida. FFL Partners retained Ayres Associates to conduct Phase I Environmental Site Assessments (ESA) of these facilities. This report addresses the facility at 2800 Melby Street in Eau Claire, Wisconsin. The parcel is referred to as the subject property in this Phase I ESA report.

This Phase I ESA has generally been prepared following procedures established by the American Society for Testing and Materials (ASTM). The ASTM publication that documents the ESA procedures is entitled *E1527-00 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The scope of services is in Appendix A.

In addition to standard Phase I ESA services, FFL Partners also requested Ayres Associates to review facility compliance with environmental regulations and include observations of potential asbestos-containing materials. Compliance documents of interest included water/wastewater discharge permits; material, waste handling, and disposal practices; air emissions permits; chemical reporting documents; and worker hazard communication/health and safety documents.

Purpose

The purpose of this Phase I ESA was to investigate the property with respect to the potential for petroleum contamination and the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This Phase I ESA identifies recognized environmental conditions (REC). The term "recognized environmental conditions" means the presence, or likely presence, of hazardous substances or petroleum products under conditions that indicate an existing release, a past release, or a material threat of a release into the ground, ground water, or surface water of the subject property. This Phase I ESA also identifies historical recognized environmental conditions (HREC). The term "historical recognized environmental conditions" means an environmental condition that in the past would have been considered a REC; however, due to remediation or case closure, the condition is not currently considered to be a REC.

Limitations and Exceptions of Assessment

This ESA does not include a certified asbestos survey, asbestos sampling, analyzing drinking water or painted surfaces for lead content, a naturally occurring radioactive materials (NORM) survey, or any other environmental sampling or testing (e.g., soil, water, air, building materials). If obvious asbestos-containing materials were observed during the walkthrough, these materials are noted in the site reconnaissance discussion. Although available on-site environmental compliance documents were reviewed, this Phase I ESA does not constitute a thorough environmental audit of the facility.

Weather conditions were clear and warm on the day of the site reconnaissance visit and did not limit observations on the subject property.

Site Description

Site Location and Property Description

The subject property is comprised of approximately 61 acres in the North ½ of the Southwest ¼ of Section 33, Township 28N, Range 09 west, Chippewa County, Eau Claire, Wisconsin. A property description and site map is in Appendix B. The subject property is located east of the Chippewa Valley Regional Airport. The general property location is shown in Figure 1 (Eau Claire West USGS 1982). The approximate boundaries of the subject property are delineated in Figure 2 (City of Eau Claire 1997 aerial photograph).

Site and Vicinity Characteristics

Currently, the subject property is used for steel and equipment storage, bridge fabrication, steel painting and blasting, shipping, and maintenance. The general area is zoned mostly industrial with a few residences located to the west along Starr Avenue. White Avenue borders the subject property to the east, Starr Avenue to the west, and Melby Street to the north. Max Phillips & Sons (salvage yard) and Indianhead Trucking border the subject property to the south.

Description of Structures, Access Roads, and Other Improvements

Seven main steel-frame buildings with metal siding and two smaller brick and block buildings are located on the subject property. The buildings cover approximately 10% of the total acreage. The remainder of the property is used for open storage of numerous items (steel, tractor-trailers, old equipment, steel raw materials, and finished products). The majority of the property is paved with base course, although the far northwestern edge is fallow grass and undeveloped. Asphalt pavement is present north of the office building and between the south side of building 1 and the south property line. The property is accessible from White Avenue and Melby Street. Access by a rail spur is also possible along White Avenue near the southeast corner of the property.

Buildings were constructed in phases between 1965 and 1990. In 1965, the eastern half of building 1 was constructed and the western half was added in 1968. In 1967, the western half of building 2, along with the western half of the office building, was constructed. In 1967, building 3 was constructed. Building 4 and the western half of building 6 were added in 1972. In 1975, building 5 and the eastern third of building 7 were constructed. The eastern half of building 6 was added in 1978. The middle third of building 7 was constructed in 1981 and the western third was added in 1990. The scale house was built in approximately 1985. Building identification numbers and locations are shown in Figure 2.

Other improvements to the property include a chain link fence along all four sides of the property, City of Eau Claire municipal sewer and water service, and natural gas service. No potable water supply wells are on the property. However, several monitoring wells are on site and are sampled periodically by National Presto Industries as part of long-term monitoring associated with a remediation project.

A detailed description of the buildings and exterior features of the subject property is included in the site reconnaissance section of this report.

Current and Past Uses of Subject Property

In the 1930s, the subject property was farmland. A few private residences were present on the subject property until the late 1960s. The subject property has been used to fabricate steel products since the late 1960s. The current owner purchased the property in the early 1990s.

Current and Past Uses Neighboring of Properties

Current land uses on adjoining properties include Max Phillips & Son and Indianhead Trucking to the south, residences to the southwest, the Chippewa Valley Regional Airport to the west, and numerous warehousing and industrial businesses to the north along Melby Street and east along White Avenue. Properties along Melby Street from west to east include a private residence, Wilkil pest control, McDonough Manufacturing (sawmill products), Wisco Signs, Sherwin Williams (paint products warehousing), West Wisconsin Distributing, Pioneer Refinishing, Service Master, Associated Medical Products, City Wide Insulation, Brambles Equipment Services, and Advanced Mail. Properties from north to south along White Avenue include a vacant lot, Dotronix (computer manufacturing), Parco Manufacturing, Quality Vending Services, new construction, and Huebsch Services (laundry).

This area began to develop as an industrial area in the mid to late 1960s. The Chippewa Valley Regional Airport was constructed in the mid 1960s. The subject property and the south adjoining properties were the first industrial businesses to develop in this area. Additional industrial development occurred gradually until the present time.

Records Review

Standard Environmental Record Sources

We retained Environmental Data Research, Inc., (EDR) to conduct a search of federal and state environmental data bases to obtain history of the subject property and surrounding area. EDR's report is in Appendix C. The August 1, 2001, report lists the data bases searched, search radius, date of last update to the data base, and results of the search.

The EDR report indicates that the subject property is on the facility index system/facility identification initiative program summary report (FINDS), resource conservation and recovery information system (RCRIS-LQG), Wisconsin remedial response site evaluation report (WRRSER), spills, leaking underground storage tank (LUST) sites, and registered storage tank data bases. A National Priorities List site (National Presto Industries) is within 1 mile of the property. Max Phillips & Son, the adjoining property to the south, is also listed as a LUST and Wisconsin Environmental Repair Program (ERP) site

State Sources

Landfill/Solid Waste Disposal Sites—The *Registry of Waste Disposal Sites in Wisconsin* was reviewed on August 8, 2001, for waste disposal sites within 1 mile of the subject property. The registry was last updated on November 1, 2000, and does not list any sites within 1 mile of the subject property.

Environmental Repair Program (ERP)—The WDNR ERP data base was examined for environmental repair sites for Eau Claire and Chippewa counties for the period of record, 1978

through August 2001. The subject property was not listed. Two ERP sites are listed within 0.5 mile of the subject property. The sites are at Pioneer Refinishing (2716 Melby Street), and Max Phillips & Son Salvage Yard (3532 White Avenue).

Leaking Underground Storage Tank Sites—The Leaking Underground Storage Tank (LUST) WDNR case tracking system was utilized to search for LUST sites within 0.5 mile of the subject property. The data base was searched on August 8, 2001. The sites are as follows:

- Pepsi Cola Central – 3020 Melby Street
- Jennico Mfg., Inc. – 2728 Davey Street
- Golden Rule Airport Site – 3130 Melby Street
- Cary Transfer Corp. – 3606 McIntyre Avenue
- Max Phillips & Son Salvage Yard – 3532 White Avenue
- Wausau Supply – 4200 White Avenue
- Lee Beverage – 2714 Melby Street

Spills—The WDNR Spills data base was examined for spills on the subject property for the period of record, 1978 through July 2001. Two spills were listed to have occurred on the subject property. One was a release to the air (1986) and one was a fuel oil spill to the soil (1999). No further action was granted to both spills.

Registered Storage Tanks—The COMM storage tank data base was queried on August 8, 2001, for underground storage tanks (USTs) and aboveground storage tanks (ASTs) on the subject property and adjoining properties.

Nine tanks were registered as having been removed from the subject property. None of the ASTs currently on site are listed as being registered on the current data base.

Seven storage tanks were registered for the Max Phillips & Son (south adjoining). Five of these tanks have been removed. The two tanks still in use are a 15,000-gallon diesel UST and a 6,000-gallon unleaded gasoline UST.

Numerous USTs had been previously located at the Chippewa Valley Regional Airport. All of the USTs have been removed; however, five ASTs still remain.

Storage tank information is in Appendix D.

Owner-Provided Records

During the site reconnaissance visit, PDM Bridge staff made available documents pertinent to this assessment. We reviewed these documents for RECs, HRECs, and general compliance with environmental regulations. This section includes a discussion of documents reviewed.

Environmental Compliance Documents

PDM Bridge retains United States Compliance Corporation, Minnetonka, Minnesota, to assist with preparing environmental compliance documents. Compliance information provided by PDM Bridge for this facility includes the following:

- WPDES Industrial Storm Water Discharge Permit – WI-S067849
- Air Permit – 609077590-P01
- SARA Tier I – WI-S067849-1
- SARA Tier II – WI-S067857-1
- Toxic Inventory Facility Data – TRI Facility ID – 54401HRTWG3526W
- Emergency response plan and training (EPCRA and SERB)
- Hazardous waste training, storage, inspection, and local authority informed
- Waste management storage, training, and management
- Material Safety Data Sheets (MSDS) available for employees

Excerpts from these documents are in Appendix E. There did not appear to be a Spill Prevention Control and Countermeasure (SPCC) plan for the facility.

Miscellaneous Environmental Documents

A 1991 tank closure report, prepared by Ayres Associates, documents removal of six fuel oil USTs from the subject property. The report noted that contamination was not found beneath five of the USTs; however, contamination was noted beneath tank 2 near the southwest corner of building 4. Contamination was also noted along the piping run from tank 3 to the northwest corner of building 2. A limited amount of contamination was also noted around the fill pipes of tanks 4 and 5, located off the southwest side of building 1. A remedial investigation was conducted and the remedial alternative was soil excavation in the above-mentioned areas. Soils were excavated in November 1992 through January 1993. Soil excavation removed all contamination associated with tanks 2 and 3. A limited amount of contamination remained under building 1. Closure was requested for all three areas. Closure was granted with a deed restriction placed on the remaining contamination near the southwest side of building 1.

During placement of the storm sewer trench, soil samples were collected to rule out any possibility of contamination in the area. Soil samples indicated that contamination was not present in the trench.

The adjoining property to the south, Max Phillips & Son, had five USTs removed in 1991. Three of the tanks were reported to the WDNR as having leaked. An investigation was performed that defined the extent of contamination. On October 16, 1997, the Wisconsin Department of Commerce (COMM) granted closure to the site without remediation.

Max Phillips & Son is an active scrap metal processing facility. The facility currently has heavy metal and organic contamination levels above WDNR standards in the soil. The site was investigated and it was concluded that contamination is limited to a minimal depth and does not reach ground water. Containment systems have been built to contain potentially contaminated runoff.

Superior Services removes solid waste from the site, Hydrite Chemical removes hazardous waste, and the DeAngelo Brothers from Illinois spray for weeds on the subject property.

Excerpts from these documents are in Appendix F.

Physical Setting Sources

The following physical descriptions are generalized for the entire subject property.

Topography

The subject property is part of a broad outwash plain (sandy or coarse textured material of glaciofluvial origin). Surficial deposits of glacial outwash (sand and gravel) overlie the Cambrian Age Mount Simon Formation (sandstone). A large northeast to southwest oriented sandstone ridge is approximately 1 mile southeast of the subject property. This ridge contains the area topographic high point of 1,120 feet, based on the National Geodetic Vertical Datum (NGVD) of 1929. The subject property is at an approximate elevation of 885 feet NGVD.

The topography of the subject property is flat. The general slope of the area is from east to west toward the Chippewa River.

Soils

The surficial soils on site are classified as Burkhardt sandy loam (BuA) that are associated with nearly level to gently sloping sandy soils on broad stream terraces and outwash plains (USGS Soil Survey 1984). These soils have a high to very high hydraulic conductivity and low water holding capacity.

Surface Water

The major surface water feature in the area of the subject property is the north-south oriented Chippewa River, located approximately 8,000 feet to the southwest. The Chippewa River flows into Delis Pond, an impoundment, approximately 2 miles southwest of the subject property (Eau Claire East USGS 1982). Four smaller surface water features, labeled waste disposal ponds, are 4,000 feet east of the subject property on National Presto Industry (NPI) property. Lake Hallie is also north of the subject property.

No surface water was observed on the subject property during the site visit. The majority of the storm runoff would appear to run off the roof and asphalt to storm water mains on the subject property. Curb and gutter are located along White Avenue, Starr Avenue and Melby Street.

Geology

Local geology of the subject property is characterized by the Chippewa River flood plain. Typically in this area, Cambrian Age Mount Simon Formation (sandstone) overlies granite

bedrock. However, immediately south of the subject property, the sandstone has been eroded down to the underlying granite bedrock and filled with sand and gravel outwash deposits. The buried valley extends from Lake Hallie southwest to the NPI site where it turns to the west and extends to the Chippewa River (eder Associates 1994).

Glacial outwash deposits consist of tan to reddish brown, well-to-poorly sorted, fine to coarse sands, some interspersed gravel, and traces of fines. Sandstone in the vicinity of the subject property is white to tan, poorly cemented, and fine to medium grained, with occasional layers of silty clay. Granite bedrock is gray to red, greatly weathered at the top, and more competent with increased depth. The weathered granite bedrock generally consists of greenish to yellowish-gray clay. The depth to bedrock is approximately 91.5 feet or elevation 794.5 feet NGVD on the subject property.

Radon levels in the general area of the subject property are in the range from greater than 4 but less than 20 pCi/L. A radon zone listing is in Appendix G and the EDR report in Appendix C also lists radon information.

Hydrogeology

The ground water on site is estimated to be elevation 823 feet NGVD, or approximately 63 feet below ground surface (bgs). The ground water flow direction is estimated to be west in the immediate vicinity of the subject property (eder Associates 1994). Six monitoring wells installed for the National Presto Industries site are on the subject property. These wells are sampled on an annual basis.

The occurrence and movement of ground water in the area of the subject property is controlled by the buried valley system. Where the saturated alluvial sand and gravel deposits overlie bedrock, as in the buried valley, ground water occurs and is primarily transmitted through alluvial deposits and, to a lesser extent, through sandstone. The buried valley is cut deeply into the sandstone and often extends down to the underlying granite. Generally, ground water flows to the Chippewa River, 2 miles west. The ground water flow paths are controlled by the location and orientation of the buried valley (eder Associates 1994).

Away from the buried valley, as in the area north of the subject property, ground water occurs only in the bedrock (sandstone) deposits. Ground water flow directions in the sandstone deposits generally reflect the land surface topography. The sandstone formation has a very low hydraulic conductivity and is characterized by steep hydraulic gradients. Ground water in the bedrock generally discharges into the buried valley (eder Associates 1994).

Historical Use Information

Sources for site historical information included city directories, Sanborn fire insurance maps, and aerial photographs. The abstract of title for this property was not available for review.

Sanborn Maps

Environmental Data Research, Inc., (EDR) completed a search for Sanborn fire insurance maps for the subject property and surrounding area; however, there is no coverage for this area. A copy of the EDR search report is in Appendix C.

City Directories

We retained EDR to conduct a search of city directories to obtain history of the subject property and surrounding area. EDR's report is in Appendix C. The August 1, 2001, report lists city directories searched at 5-year intervals for the years spanning 1961 to 1999.

The EDR report indicates that the subject property was not developed until the late 1960s to early 1970s. At the time of development, the property was used as a steel fabricator and is still used as such today. Sometime in the early 1990s, the subject property changed ownership, but steel fabrication was continued.

Aerial Photographs

Aerial photographs were reviewed for this Phase I ESA from the following years and contained the described following features on the subject property:

- May 1939 at a scale of 1" = 1,750'
 - Two residences and farmland
- October 1965 at a scale of 1" = 1,850'
 - Three residences, an access road, farmland, and building 1
- August 1972 at a scale of 1" = 1,800'
 - Two residences, farmland, steel storage, and buildings 1, 2, 3, and 4, along with an addition on the east end of building 1
- April 1974 at a scale of 1" = 400'
 - Two residences, farmland, steel storage, and buildings 1, 2, 3, and 4, along with offices built onto building 2
- October 1980 at a scale of 1" = 5,500'
 - Two residences, farm land, steel storage, buildings 1, 2, 3, and 4, along with building 5, 6, and the eastern end of building 7
- July 1986 at a scale of 1" = 5,700'
 - No residences, vacant lands, steel storage, buildings 1, 2, 3, 4, 5, and 6 along with the completed building 7
- April 1997 at a scale of 1' = 200' (Figure 2)
 - This photo represents the way the property looks today. The only change from the 1986 photo is the addition of more office space and a scale house.
- May 1998 scale unknown

The photo is the same as the 1997 photo.

Aerial photos are in Appendix H. The April 1997 aerial is used as a base map for Figure 2.

Site Reconnaissance

General

Trevor A. Wilson and Dennis L. Johnson, Ayres Associates, performed a site reconnaissance visit on August 2, 2001. The site visit consisted of observing the building and businesses and observing neighboring facilities. Phil Hoilien, facility manager, accompanied us during a walkthrough of the buildings. Photographs taken during the site visit are in Appendix I and others are on file at Ayres Associates.

Exterior Observations

Exterior portions of the subject property were viewed by walking the property and driving the perimeter roads (Starr Avenue, Melby Street, and White Avenue). The subject property is bordered by Melby Street to the north (Photos 1 and 2), Starr Avenue to the west (Photo 3), White Avenue to the east (Photo 4) and industrial property to the south (Photo 5).

Seven large steel buildings are on the subject property along with two small brick buildings. Buildings 1 and 6 are located in the southeastern end of the subject property (Photo 6). Building 2 is an aqua-colored building along the northern border (Photo 7). Building 3 is a smaller steel building off the northeast corner of building 2. Building 4 is near the southern edge of the property west of buildings 1 and 6 (Photo 8). Building 5 is in the northeast corner of the subject property (Photo 9). Building 7 is in the center of the subject property (Photo 10). Photo 11 shows an overview of numerous buildings from the eastern property edge. The front office building is located along the north property border, north of building 2 (Photo 12). The scale house is along the north-central property border. Access to this area is from Melby Street.

The remaining area not occupied by buildings is used either for roadways or for storage of raw steel materials and finished products (Photo 13).

In the northwest corner of the property, particles from roto blasting conducted in building 4 are scattered (Photo 14). A large hopper filled with steel shot that is used in the roto blasting process is adjacent to building 4 (Photo 15). A storm sewer trench runs from the southern border and ends just northeast of building 4 (Photo 16). Numerous empty 55-gallon drums and propane tanks are east of building 3 (Photos 17 and 18). Numerous other empty 55-gallon drums are in the southwest corner of the subject property (Photo 19). Two steel structures are along the western property border (Photo 20). These structures are used for outdoor work during winter months. An oxygen tank is located off the northwest corner of building 5 and southwest end of building 2 (Photo 21 and 22).

Several aboveground storage tanks (ASTs) are scattered throughout the subject property. The two largest ASTs contain diesel fuel and unleaded gasoline. These tanks are used to fuel PDM Bridge vehicles (Photos 23 and 24). Six tanks containing fuel oil, which is used as an alternate fuel source for heating, are located throughout the property. One of these tanks is outside building 6 (Photo 25).

Interior Observations

Building 1 and building 6 are currently the bridge building plant. The buildings are approximately 96,000 square feet in area. Both buildings have concrete floors. Processes inside the plant include grinding, drilling, welding, and assembly of bridge components. Drilling and cutting activities are lubricated using an environmentally safe product called Band-Aid. Attached to the southwest end of building 1 is a small maintenance shop that has a parts washer and numerous lubricants on a rack system (Photos 26, 27, and 28). East of the maintenance area and attached to building 1 is a large locker room and shower facility. At the east end of building 6 (outside) and the south end of building 1 (inside) are two backup fuel oil tanks.

Building 2, including the office area, is approximately 109,500 square feet in area. The western end of building 2 is currently the main fabrication area; the eastern end is used for steel storage. Large cutting and welding tools are in the west end of building 2. A parts storage area that includes a parts washer is attached to the southwest end of building 2 (Photo 29). West of the parts storage shop is an old rail car used to store numerous parts. Waste oil and kerosene tanks are in the eastern half of building 2 (Photo 30). Attached to the northeastern end of building 2 is the main office building. This building includes offices, conference rooms, a copy room, and lunchroom area. The southeast portion of building 2 has an earthen floor.

Building 3, approximately 14,400 square feet in area, is a storage area for numerous items including nuts, bolts, welding rods, and steel shot for blasting (Photo 31). This building has a loading dock along the south wall.

Building 4 is approximately 10,500 square feet in area and is a large roto blasting facility that uses steel shot to blast steel. Two backup fuel oil tanks are in the northeast corner of building 4.

Building 5 is a former rebar fabrication building that is currently the assembly shop. The building is approximately 29,000 square feet in area. A backup fuel oil tank is in the northern end of this building (Photo 32). A large water bath with a CC cutting machine used for steel cutting is in this building.

Building 7 is the paint building and is approximately 45,000 square feet in area. Painting of finished steel bridge girders and associated members is conducted in this building. A small roto blaster unit is also in this building along with a shower room and a few offices. Attached to the southern end of the building 7 is a small paint storage room. All the paint stored in this room is grounded and explosion-proof lighting is provided.

With the exception of the scale office, all buildings are of steel-frame construction with metal siding and concrete floors. Buildings are insulated with fiberglass, heated with natural gas, and store fuel oil as a backup source.

No obvious asbestos-containing materials (ACM) were observed during the building walkthrough. All buildings, except the office, were heated with overhead-type natural gas units, and no insulation wrap was observed. Office materials, such as floor tile and ceiling and drywall materials, are potential ACMs.

Identified Hazardous Substance Use and Containers

The subject property is a large quantity hazardous waste generator. This is due to the paint products used to finish steel products. Other hazardous waste generated on the subject property comes from the two parts washers.

Storage Tanks, PCBs, and Solid Waste Disposal

Nine ASTs currently exist on the property. The diesel and unleaded gasoline tanks are in a containment system located off the northeast corner of building 4. The remaining ASTs are generally used to store fuel oil as a back-up heat source or waste oil. Two of the ASTs are in building 4, two are in the eastern end of building 2, one is in building 1, one in building 5, and one outside the eastern end of building 6. None of these tanks are listed as being registered in the Department of Commerce tank data base. The diesel, gasoline, and waste oil tanks need to be registered. The heating oil tanks are not required to be registered because of their size.

Solid waste is disposed of properly and removed by Superior Services. Old transformers were not present on the property but were most likely present at one time. No PCB release has ever been reported.

Physical Setting Analysis With Regard to the Potential for Migrating Hazardous Substances

The National Presto Industry (NPI) Superfund site has contaminated the ground water below the site. Migration from NPI is expected to continue for some time. Because of high permeability soils in the area, there is potential for contamination from adjoining properties, such as Max Phillips & Son salvage yard, to migrate onto the subject property.

Interviews

Private Citizens

Ayres Associates conducted interviews with private individuals to obtain pertinent information on the site. The following is a summary of the interviews:

- Jeff Henning, Former Employee, Eau Claire, Wisconsin

Mr. Henning was interviewed on August 4, 2001. In the 18 years that he was employed on the subject property, he stated that the only environmentally-related issue he remembered was dumping of paint in a large pit south of building 7 and east of building 4.

- Phil Hoilien, Plant Manager, Eau Claire, Wisconsin
(715) 835-2250

Mr. Hoilien was interviewed on August 2, 2001. He stated that he knew of former UST locations along with cleanup activities and that a deed restriction was associated with one of the tank areas. He also stated that the former paint waste dumping pit had been remediated. According to Mr. Hoilien, shot blast dust, hazardous paint waste, and floor scrapings from the paint building are hauled to the

landfill. He also filled out the ASTM E 1528 Transaction Screen Questionnaire that is in Appendix J. He commented that United States Compliance Company is retained to assist PDM Bridge with environmental compliance requirements. He also commented that they spray the storage yard for weed control and recently hired an Illinois firm for that purpose. When asked about asbestos, it was his opinion that there would be few asbestos-containing materials because of the type of building construction and heating systems.

Local Government Officials

Wisconsin DNR and DATCP

The following contacts were made:

- Mr. John Grump, Hydrogeologist—Wisconsin Department of Natural Resources, Eau Claire, Wisconsin (715) 839-3775

Mr. Grump was contacted on August 14, 2001, regarding environmental conditions on the subject property, specifically spills. He stated that spills occurred at the Chippewa Valley Regional Airport in 1983, 1986, 1996, and 1998. There was no record for the 1998 spill. The 1996 spill was a natural gas leak to the air. The 1986 spill was a 195-gallon jet fuel spill that ran to a drainage ditch. The spill was absorbed by the soil at the site and no further action was taken. In 1983, 30 gallons of jet fuel was spilled. The fuel ran to a storm sewer drain and was air vacuumed. Indianhead Trucking to the south had a 25-gallon diesel fuel spill in 1994. The spill was contained to the asphalt, and floor-dry was used to remove the fuel.

Mr. Grump stated that PDM Bridge had a spill of 14 gallons of fuel oil from a forklift in June 1999. The spill was contained and the affected soil was hauled in two 55-gallon drums to Superior Seven Mile Creek Landfill biopile.

Mr. Grump was asked about disposal requirements for shot blasting waste. He stated that it is up to the landfill if they are willing to accept this material. However, the material should be tested for heavy metals contamination and be in accordance with state regulations.

- Jill Schoen, Hazardous Waste Specialist—Wisconsin Department of Natural Resources, Eau Claire, Wisconsin (715) 839-2788

Ms. Schoen was contacted on August 8, 2001, regarding hazardous waste issues in the area of the subject property. She stated that there had been numerous violations in the past, none of which pertained to improper handling of waste on the subject property. She also stated that the property is a large quantity generator of hazardous waste. The violations that were cited in 1995 have since been resolved and the property is currently operating within WDNR regulations.

- Mr. Pat Collins, Hydrogeologist—Wisconsin Department of Natural Resources (WDNR), Baldwin, Wisconsin (715) 684-2914

Mr. Collins was interviewed on August 10, 2001, regarding any new releases in the area of the subject property. He stated that he knew of none.

- Mr. Ed Bergmann, Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) (608) 224-4546

Mr. Bergmann was contacted on August 13, 2001, regarding the herbicide (Diuron 80DF) that is used to treat weeds on the subject property. He stated that this is an approved product and is registered with the State of Wisconsin. An excerpt from the MSDS for this product is in Appendix F.

Fire Department Contact

The following contact was made:

- Jim Onarheim, Eau Claire Fire Department, Eau Claire, Wisconsin (715) 839-4825

Mr. Onarheim was contacted on August 8, 2001, to discuss fires, spills, USTs, or any other responses that may have been made to the subject property. He stated that he knew of numerous underground storage tanks that had been on the property. These tanks have been removed. Mr. Onarheim had records of responses to the subject property dating back to 1994. He stated that they had been called to the property 16 times since 1994 and all of the calls were related to medical issues.

Summary of Findings

The PDM Bridge facility in Eau Claire, Wisconsin, fabricates steel bridge girders and associated members. Products are fabricated from raw steel materials shipped to the facility and stored on site. Following fabrication, the products are shot blasted, painted, and prepared for shipment.

The following summary of findings is based on a site reconnaissance visit to view the subject property and adjoining properties, review of regulatory records and historical documents, and interviews conducted during this ESA:

- The subject property is a 61-acre parcel in the North ½ of the Southwest ¼ of Section 33, Township 28N, Range 9 West, Chippewa County, Eau Claire, Wisconsin. The property is located in an industrial park area and is east of the Chippewa Valley Regional Airport. Access to the site is from Melby Street and White Avenue. Railcar access is along White Avenue.
- Review of city directories, aerial photographs, and interviews indicate that the subject property has historically been used as a steel fabrication plant since the late 1960s. Prior to this use, the property was farmland with a few residences.
- Improvements to the property include seven steel frame buildings used for maintenance shop, steel fabrication, painting, and materials storage purposes, and two brick buildings including the business office and scale office. Buildings were constructed in stages between the late 1960s and 1990. Natural gas, municipal sewer and water, and storm water drainage systems serve the property.

- Exterior features include a rail spur at the east side of the property, asphalt paved parking lots north of the office and south of building 1, numerous gravel haul roads, and storage areas that include raw steel materials, finished products, and used equipment.
- Site topography is flat and at approximately elevation 885 NGVD. The depth to ground water is approximately 63 feet and the flow direction is to the west. The National Presto Industries (NPI) Superfund site has affected the ground water beneath the property. Six monitoring wells are on the subject property and these wells are monitored periodically by NPI.
- Environmental data base searches and interviews with regulatory agencies revealed evidence of current recognized environmental conditions along with historical recognized environmental conditions on the subject property. The facility is a large quantity hazardous waste generator (LQG). Other conditions noted include leaking underground storage tanks, spills, and presence of underground storage tanks. As of today, all of these conditions have been resolved
- Nine ASTs are currently on the subject property and these tanks are not registered with the Wisconsin Department of Commerce.
- PDM Bridge retains United States Compliance Corporation to assist with preparing compliance documents. Documents that were reviewed at the facility appear to be current, although there does not appear to be a SPCC plan.
- The site walkthrough revealed no obvious evidence of asbestos-containing materials, although office building materials, such as floor and ceiling tiles, and drywall materials may potentially contain asbestos
- Max Phillips & Son, the neighboring property to the south, currently has two active USTs, documented heavy metal and organic soil contamination associated with salvage activities, and historical recognized environmental conditions pertaining to closed LUST and spill cases.

Conclusions

We performed this Phase I ESA of the PDM Bridge facility in Eau Claire, Wisconsin, in conformance with the scope and limitations of ASTM Practice E 1527-00. Any exceptions to, or deletions from, this practice are described in the "Limitations and Exceptions of Assessment" section of this report. This ESA revealed the following recognized environmental conditions (REC) for this property:

- The subject property is a large quantity hazardous waste generator due to painting activities
- Petroleum products are stored in nine ASTs on the subject property
- National Presto Industries (NPI) is affecting ground water beneath the subject property
- The south adjoining property, Max Phillips & Son salvage yard, currently contains two USTs and heavy metal and organic soil contamination that could potentially migrate to the subject property

The following historical recognized environmental conditions (HREC) were revealed on the subject property:

SPENS
08/07/01
D:\WASTE\101308\lm.dgn
DGN LEVEL

*LEV2
*LEV09
*LEV06
*LEV03

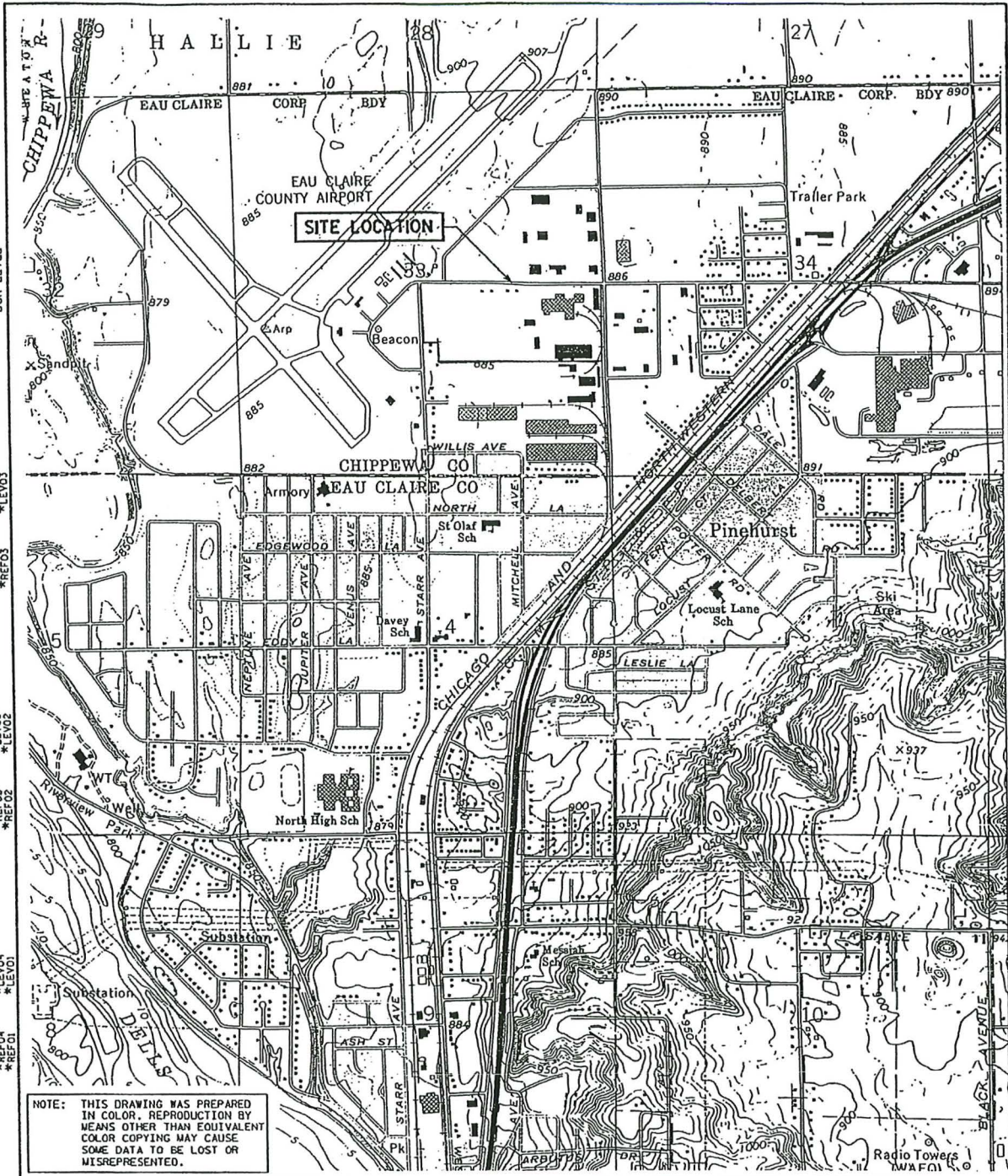
*REF2
*REF08
*REF05
*REF03

*LEV1
*LEV08
*LEV05
*LEV02

*REF11
*REF08
*REF02

*LEV10
*LEV07
*LEV01

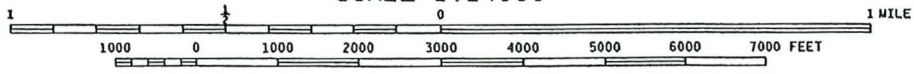
*REF10
*REF07
*REF01



NOTE: THIS DRAWING WAS PREPARED IN COLOR. REPRODUCTION BY MEANS OTHER THAN EQUIVALENT COLOR COPYING MAY CAUSE SOME DATA TO BE LOST OR MISREPRESENTED.

USGS MAP: EAU CLAIRE EAST QUADRANGLE
1972 (PHOTOREVISED 1982)

SCALE 1:24000



ENVIRONMENTAL
SITE ASSESSMENT
PDM BRIDGE
2800 MELBY STREET
EAU CLAIRE, WISCONSIN

DRN. BY: *ghl* JGS
CHK. BY: *sal* TAW
DATE: AUG 2001



LOCATION MAP

FIGURE
1

K:\WASTE\101308\LM.DGN

- The subject property was formerly a LUST site. LUST activities were closed in 1993 with a deed restriction placed on the property.
- Paint was formerly discarded in a pit on site. The pit has been remediated according to PDM Bridge current employees.
- In 1986, the property was listed as a spill site due to a release to the air. No action was required.
- In 1999, the property was again listed as a spill site due to a fuel oil spill. The spill was contained and recovered.

Additional business considerations:

- None of the nine ASTs on the subject property are registered with the Wisconsin Department of Commerce. The waste oil, diesel, and gasoline ASTs need to be registered.
- There does not appear to be a current SPCC plan for oil product storage at the facility.

Standard of Care

This Phase I ESA was formulated in general accordance with the scope and limitations of ASTM Practice E 1527-00 and applies only to the specific site addressed in this report. These environmental methods were developed to provide the owner, buyer, and/or lending institution with data regarding possible indications of existing or potential adverse environmental conditions affecting the subject property and are, therefore, limited to the conditions observed on the property at the time of the site visit and research. It is our opinion that the information, documents, and interviews concerning the property are reliable. However, we cannot warrant or guarantee in any way that the information provided is complete or accurate.

Qualifications of Professional Staff

Following is a summary of the qualifications of Ayres Associates' professional staff who provided services for this ESA:

Dennis L. Johnson, P.E., Manager—Environmental Services

Role on this ESA: Project Manager and Reviewer

Years of Environmental Assessment Experience: 13

Years of Engineering Experience: 26

Summary of Experience: Mr. Johnson's experience in environmental management and assessment includes the following:

- Manages Eau Claire office environmental services staff
- Serves as senior reviewer for a wide variety of environmental assessment and remediation reports
- Has reviewed more than 200 ESAs for real estate transactions involving a wide variety of facilities, including manufacturing facilities, commercial businesses, and vacant land
- Has managed underground storage tank closure site assessments for more than 200 sites in Wisconsin

Registered Professional Engineer, Wisconsin, Texas, Minnesota, and Florida

Bachelor of Science, Civil Engineering
Bachelor of Science, Biology
Certified as "Site Assessor" under Wisconsin Administrative Code ILHR 10
OSHA Health and Safety Training
EDR Due Diligence Course on Phase I ESAs and ASTM 1527, 2000

Trevor A. Wilson, Hydrogeologist

Role on this ESA: Site Assessment and Report Preparation
Years of Environmental Assessment Experience: 3

Summary of Experience: Mr. Wilson's experience in environmental management and assessment includes the following:

- Conducting Phase I and II ESAs for private clients as part of property transactions
- Conducting Phase I and II ESAs of highway corridors for county and state governments
- Has managed underground storage tank site investigations and remediations for numerous sites in Wisconsin
- Provides construction observation and testing for landfill construction

Bachelor of Science, Geology with an emphasis on Hydrogeology
Qualifying Wisconsin Administrative Code NR 500 Hydrogeologist
OSHA Health and Safety Training
EDR Due Diligence Course on Phase I ESAs and ASTM 1527, 1999

References

American Society for Testing and Materials (ASTM). 2000. *ASTM Standards On Environmental Site Assessments For Commercial Real Estate E 1527-00 and E 1528-96*. Philadelphia: ASTM.

Muldoon, M.A. 1992. *Generalized Water-Table Elevation of Eau Claire County, Wisconsin*. Wisconsin Geological and Natural History Survey Map.

Eau Claire East USGS 7.5 Minute Quadrangle--Wisconsin. 1982. Eau Claire County, United States Geological Survey.

Soil Survey of Eau Claire County, Wisconsin. United States Department of Agriculture Soil Conservation Service. 1974.

**Fax Notification For Hazardous Substance Discharge
(Non-Emergency Only)**

Form 4400-225 (07-03) Page 1 of 2

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to the "Spills Law", s. 292.11 Wis. Stats., Section NR 706.05(1)(b), Wis. Adm. Code, requires that hazardous substance discharges are to be reported by one of three methods: telephoning the Department (toll free Spill Hotline number above), telefaxing a report to the Department or visiting a Department office in person. If you choose to notify the Department by telefax, you should use this form to be sure that all necessary information is included. However use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than \$10 nor more than \$5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.). Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** FAX it to the appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from (check one):

- Underground Petroleum Storage Tank System
 Aboveground Petroleum Storage Tank System
 Dry Cleaner Facility (DERP eligibility based on: Facility owner/operator Property owner of licensed facility)
 Other - Describe:

TO DNR, ATTN: R & R Program Assistant		(Area Code) FAX Number 715-839-6076	
1. Discharge reported by:			
Name Donald P. Gallo, Esq.	Firm Reinhart Boerner Van Deuren	Date FAXed to DNR 7/27/2006	
Mailing Address PO Box 2265, Waukesha WI 53187-2265		(Area Code) Phone Number 262-951-4555	
2. Site Information			
Name of site at which discharge occurred. Include local name of site/business, <u>not</u> responsible party name, unless a residence / vacant property PDM - Eau Claire Paint Waste Disposal Area			
Location: Include street address, <u>not</u> PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60 2800 Melby Street			
Municipality (City, Village, Township) Specify municipality in which the site is located, <u>not</u> mailing address/city Eau Claire			
County: Chippewa	Legal Description: _____ 1/4, _____ 1/4, Section _____, Tn _____, Range _____ E / W (circle one)		
3. Responsible Party (RP) and/or RP Representative			
<input type="checkbox"/> Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all Attach additional pages as necessary PDM Bridge			
<input type="checkbox"/> Reported in compliance with s. 292.11(2), Wis. Stats., by a local government exempt from liability under s. 292.11(9)(e), Wis. Stats. For more information see http://dnr.wi.gov/org/aw/rr/liability/muni_1.html			
Contact Person Name (if different) c/o Donald P. Gallo, Esq.		Phone Number 262-951-4555	
Mailing Address PO Box 2265	City Waukesha	State WI	ZIP Code 53187-2265

4. Hazardous Substance Impact Information

Identify hazardous substance discharged (check all that apply):

METALS

- Arsenic
- Chromium
- Lead
- Mercury
- Metals (specify): _____

INDUSTRIAL CHEMICALS

- Ammonia
- Cyanide
- Paint
- PCB's
- VOC's

- Fertilizers
- Pesticide/Herbicide/Insecticide(s)
- Leachate
- RCRA Hazardous Waste

PETROLEUM

- Diesel/Fuel Oil
- Engine Oil/Waste Oil
- Mineral/Transmission/Hydraulic Oil
- Gasoline (Pb/Non-Pb/Unknown)
- Jet Fuel/Kerosene
- MTBE
- VOC's
- PAH's/SVOC
- Petroleum-Unknown Type

- Unknown
- Other (specify): _____

SOLVENTS

- Solvent-Chlorinated
- Solvent-Non Chlorinated
- PERC
- VOC's

Impacts to the environment (enter "K" for known/confirmed or "P" for potential for all that apply)

- | | | |
|--|--|--|
| <input type="checkbox"/> Air Contamination | <input type="checkbox"/> Contamination in Right of Way | <input type="checkbox"/> Sanitary Sewer Contamination |
| <input type="checkbox"/> Co-contamination | <input type="checkbox"/> Direct Contact | <input checked="" type="checkbox"/> Soil Contamination |
| <input type="checkbox"/> Concrete/Asphalt | <input type="checkbox"/> Expanding Plume | <input type="checkbox"/> Storm Sewer Contamination |
| <input type="checkbox"/> Contained/Recovered | <input type="checkbox"/> Fire Explosion Threat | <input type="checkbox"/> Surface Water Contamination |
| <input type="checkbox"/> Contamination Within 1 Meter of Bedrock | <input type="checkbox"/> Free Product | <input type="checkbox"/> Within 100 ft of Private Well |
| <input type="checkbox"/> Contaminated Private Well | <input type="checkbox"/> Groundwater Contamination | <input type="checkbox"/> Within 1000 ft of Public Well |
| <input type="checkbox"/> Contaminated Public Well | <input type="checkbox"/> Off-Site Contamination | |
| <input type="checkbox"/> Contamination in Fractured Bedrock | <input type="checkbox"/> Other | |

Contamination was discovered as a result of:

- Tank closure assessment
- Site assessment

Other - Describe:
Date

Phase I - Agres & ASS.
Phase II Agres & ASSOC NOV 2001

Lab results:

- Lab results will be faxed upon receipt
- Lab results are attached in Phase II report

B1 and B2

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

FAX numbers to report non-emergency releases in DNR's five regions are as follows:

Northeast Region (920-662-5197); Attention - RR Program Assistant:

Brown, Calumet, Door, Fond du Lac (except City of Waupun - see South Central Region), Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Waupaca, Waushara, Winnebago counties

Northern Region (715-365-8932); Attention - RR Program Assistant:

Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn counties

South Central Region (608-275-3338); Attention - RR Program Assistant:

Columbia, Dane, Dodge, Fond du Lac (City of Waupun only), Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk counties

Southeast Region (414-263-8483); Attention - RR Program Assistant:

Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Walworth, Washington, Waukesha counties

West Central Region (715-839-6076); Attention - RR Program Assistant:

Adams, Buffalo, Chippewa, Clark, Crawford, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood counties