GIS REGISTRY
Cover Sheet

May, 2009
(RR 5367)

Source Property Information

CLOSURE DATE: Sep 1, 2009

BRRTS #: **02-45-548762**

FID #: 445011600

ACTIVITY NAME: Banta Court Property

DATCP #:

PROPERTY ADDRESS: 1130 Banta Court (formerly E John St)

COMM #:

MUNICIPALITY: Appleton

PARCEL ID #: 314082800 & 314082802

***WTM COORDINATES:**

X: **648830** Y: **422222**

** Coordinates are in WTM83, NAD83 (1991)*

WTM COORDINATES REPRESENT:

- ○ Approximate Center Of Contaminant Source
- ◉ Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

- ☒ Groundwater Contamination > ES *(236)*
  - ☐ Contamination in ROW
  - ☐ Off-Source Contamination

  (***note:*** *for list of off-source properties see "Impacted Off-Source Property"*)

- ☒ Soil Contamination > *RCL or **SSRCL *(232)*
  - ☐ Contamination in ROW
  - ☐ Off-Source Contamination

  (***note:*** *for list of off-source properties see "Impacted Off-Source Property"*)

Land Use Controls:

- ☐ N/A *(Not Applicable)*
- ☐ Soil: maintain industrial zoning *(220)*

  (***note:*** *soil contamination concentrations between non-industrial and industrial levels)*
- ☐ Structural Impediment *(224)*
- ☒ Site Specific Condition *(228)*
- ☐ Cover or Barrier *(222)*

  (***note:*** *maintenance plan for groundwater or direct contact)*
- ☐ Vapor Mitigation *(226)*
- ☐ Maintain Liability Exemption *(230)*

  (***note:*** *local government or economic development corporation)*

Monitoring Wells:

Are all monitoring wells properly abandoned per NR 141? *(234)*

◉ Yes ○ No ○ N/A

** Residual Contaminant Level*
***Site Specific Residual Contaminant Level*

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

GIS Registry Checklist

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: 02-45-548762 PARCEL ID #: 314082800 & 314082802

ACTIVITY NAME: Banta Court Property WTM COORDINATES: X: 648830 Y: 422222

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

- [x] **Closure Letter**
- [ ] **Maintenance Plan** (*if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.*)
- [ ] **Conditional Closure Letter**
- [x] **Certificate of Completion (COC)** for VPLE sites

SOURCE LEGAL DOCUMENTS

- [x] **Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
  Note: *If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*
- [ ] **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map *for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map.* (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).

  Figure #: **Title:**
- [x] **Signed Statement:** A statement signed by the responsible party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(h))

Maps must be no larger than 8.5 x 14 inches unless the map is submitted electronically.

- [x] **Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
  Note: *Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.*

  Figure #: 1 **Title: Site Location Map**
- [x] **Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.

  Figure #: 2 **Title: Site Plan View**
- [x] **Soil Contamination Contour Map:** For sites closing with residual soil contamination, <u>this map is to show the location of all contaminated soil and a single contour</u> showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL)as determined under s. NR 720.09, 720.11 and 720.19.

  Figure #: multiple **Title: Figs 1R, 13, 22A-25A, 28B, 29A, 29B (Shaw) and Fig 2(RMT)**

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

BRRTS #: 02-45-548762 ACTIVITY NAME: Banta Court Property

MAPS (continued)

☒ **Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: 7 **Title: Geologic Cross-Section with Piezometers Containing Dissolved Arsenic**

Figure #: 15 R, 16 R **Title: (15 R) Cross-Section B-B', (16 R) Cross-Section C-C'**

☒ **Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.
Note: *This is intended to show the total area of contaminated groundwater.*

Figure #: 6, 37A **Title: (6) Arsenic Distribution in WT Wells, (37A) VOC Distribution in Groundwater**

☒ **Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more then 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: 20 **Title: Potentiometric Surface Map, Water Table Wells, January 2008**

Figure #: 18, 19 **Title: (18) Flownet A-A' January 2008, (19) Flownet B-B' January 2008**

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 8.5 x 14 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

☒ **Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.
Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: multiple **Title: 3-Metals (Pgs 1-5, 19 of 19), 3a-VOCs (Pgs 2, 3, 6 of 8), 3b-PAHs (Pg 1-7 of 7), 2-Verification...**

☒ **Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: 4, 4a **Title: (4) RCRA Metals (Pgs 1-8 of 8), (4a) VOCs (Pg 13 of 14)**

☒ **Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: 7 **Title: Groundwater Elevation Data**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.
Note: *If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.*

☒ **Not Applicable**

☐ **Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.
Note: *If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.*

Figure #: **Title:**

☐ **Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

☐ **Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

☐ **Notification Letter:** Copy of the notification letter to the affected property owner(s).

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

BRRTS #: 02-45-548762 ACTIVITY NAME: Banta Court Property

NOTIFICATIONS

Source Property

☒ **Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.

☒ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

☐ **Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.
Note: *Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.*

Number of "Off-Source" Letters:

☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.

☐ **Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies).** This does not apply to right-of-ways.
Note: *If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*

☐ **Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

Number of "Governmental Unit/Right-Of-Way Owner" Letters:

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2984 Shawano Avenue
Green Bay WI 54313-6727

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

September 20, 2013

WDNR BRRTS # 02-45-548762

Mark Geall
RiverHeath LLC
RiverHeath Townhome #7
1155 Banta Court
Appleton, Wisconsin 54911

Subject: Reopening of Closed Case: Banta Court Property
Re-use of Contaminated Soil at *RiverHeath, LLC Development*,
South RiverHeath Way (a.k.a. 1130 Banta Court), Appleton, WI

Dear Mr. Geall:

On September 3, 2013, CD Smith Construction Services, on behalf of Tanesey Development, notified the Wisconsin Department of Natural Resources ("Department) that redevelopment at RiverHeath, LLC is now underway and that soils with residual contamination are being re-used on the property. At this time redevelopment is occurring at ***RiverHeath's building B4, South RiverHeath Way and Newbery Street and associated public and private utilities*** hereinafter referred to as "Phase I".

The notification is pursuant to Ms. Jennifer Borski's (Department Project Manager) June 5, 2013 *Conditional Approval of the Soil Management Plan* (SMP) for Phase I which specified that a letter of responsibility will be written to you when/if soils with residual contamination begin to be reused on the Property, and that RiverHeath, LLC must provide the Department with written notification within 14 days of reuse.

The contaminated soil now being reused is from the previous ***Banta Court Property*** *case (BRRTS # 02-45-548762,* closed September 1, 2009). At that time, the closure determination was based on an "exposure area approach" and capping to prevent exposure to contaminated soil was not needed. Instead, risk-based calculations for residual contaminated soils were the basis for the closure, as allowed under ch. NR 720, Wis. Adm. Code.

Purpose of this Letter of Responsibility

As Ms. Borski discussed with you during a telephone conversation on June 3, 2013, the issuance of this letter is needed as part of the process of a person who is responsible for environmental contamination under s. 292.11, Wis. Stats.

Following this process is necessary at this time so that you may

- continue redevelopment of the property;
- excavate, reuse, and cap the contaminated soil in the Phase I area in an environmentally safe and practical manner following the requirements of the Conditional SMP approval;
- document the soil management actions during each phase of redevelopment;

- prepare and submit a closure request for the reopened Banta Court Property pursuant to the Conditional SMP approval and requirements of ch. NR 726, Wis. Adm. Code;
- acknowledge changes and updates to BRRTS case #02-45-548762 (e.g., continuing obligations and GIS Registry documentation); and
- reapply to follow the Voluntary Party Liability Exemption (VPLE) process so that a new Certificate of Completion (COC) can be issued that reflects the new closure conditions and continuing obligations at the property.

Legal Responsibilities

Your legal responsibilities are defined both in statute and in administrative codes. The hazardous substances spill law, Section 292.11 (3) Wis. Stats., states:

RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Steps to Take for Phase I Redevelopment

The June 5, 2013 *Conditional Approval of the SMP* for Phase I described the next steps to take with respect to following the requirements under this letter of responsibility:

- RiverHeath, LLC must submit a Cap Maintenance Plan to the Department within 30 days of Phase I final cap placement over reused contaminated soils.
- Submit a request for closure of the site-wide Banta Court Property case, BRRTS # 02-45-548762, within 60 days of Phase 1 final cap placement over reused contaminated soils. The request for closure should include documentation of contaminated soil placement and coverings and a GIS Registry packet. Applicable fees are dependent on if the property is re-entered into the VPLE Program. You are encouraged to work with the Department to assure complete documentation is submitted.

Steps to Take for Future Phases of Redevelopment
(assuming a full VPLE COC is re-issued after Closure of the Banta Court Property #02-45-548762 after completion of Phase I)

- Continue following the cap maintenance requirements for soils in area of Phase I
- Future phases of the RiverHeath, LLC Development that include excavation of soils, modifications to the cap, and/or changes to site grading will require submittal of a new Soil Management Plan and submittal of the fee for "other technical assistance" under ch. NR 749, Wis. Adm. Code for Department review and approval.
- If contaminated soils are again proposed to be reused on the Property, the Cap Maintenance Plan for the Property will need to be amended. This may require the need for submittal of updated GIS Registry packet(s) and appropriate fees under ch. NR 749, Wis. Adm. Code.
- The COC will acknowledge that the Banta Court Property (BRRTS # 02-45-548762) is closed, however new soil management plan submittals and approvals will continue until all phases of redevelopment are completed.

VPLE application and fees

The Department understands that RiverHeath, LLC intends to submit a VPLE application and pursue issuance of a new Certificate of Completion (COC) as soon as possible during Phase I redevelopment. The COC that was originally issued for this property to Shaw Environmental Liability Solutions LLC, (Shaw) on October 23, 2009 (BRRTS # 06-45-548615) is technically no longer applicable because the closure conditions have changed. It is the Department's understanding that RiverHeath, LLC will request issuance of a new COC after the Banta Court Property is again closed.

As conveyed to you in the June 5, 2013 *Conditional Approval of the SMP* for Phase I, the VPLE groundwater insurance coverage previously acquired by Shaw will still be in effect for the property upon issuance of a new COC.

Please call me (920-662-5165) before RiverHeath, LLC submits a VPLE application to assure that the appropriate documentation is submitted. The application fee and advance deposit is currently $3250. It will rise to $4,250 on November 1, 2013 when the revisions to the NR 700 Rule Series go into effect. The application can be found at: http://dnr.wi.gov/files/PDF/forms/4400/4400-178.pdf. The advance deposit is used to cover DNR oversight costs and fees under ch. NR 749 and NR 750, Wis. Adm. Code. You can send the application and fee to me at WDNR, 2984 Shawano Ave, Green Bay WI 54313-6727 for initial processing of the application.

Ms. Borski will continue to work with you as the Department Project Manager. All correspondence regarding this site should be sent to:

Jennifer Borski, Hydrogeologist
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
Oshkosh Service Center
625 East County Road Y, STE 700
Oshkosh, WI 54901-9731

Unless otherwise requested, please submit only one paper copy of plans and reports. To speed processing, correspondence should reference the BRRTS number shown at the top of this letter. Thank you for your cooperation. Please contact me at (920) 662-5165 or Annette.weissbach@wisconsin.gov if you have any questions in regard to this letter of responsibility.

Sincerely,

Annette Weissbach

Annette Weissbach, Land Recycling Coordinator
Remediation & Redevelopment Program

e-cc: Jennifer Borski – Oshkosh
Michael Prager – RR/5
Roxanne N. Chronert – Green Bay
Brian Wayner – OMNNI Associates

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 East County Road Y, STE. 700
Oshkosh, WI 54901-9731
TELEPHONE 920-424-3050
FAX 920-424-4404

September 1, 2009

JIM DROUGHT
SHAW ENVIRONMENTAL & INFRASTRUCTURE INC
111 W PLEASANT ST STE 105
MILWAUKEE WI 53212-3939

SUBJECT: Final Case Closure with Continuing Obligations
WDNR Site Name: Banta Court Property, 1130 Banta Court (formerly John Street), Appleton, WI
WDNR BRRTS Activity #: 02-45-548762

Dear Mr. Drought:

On August 14, 2009, the Northeast Region Closure Committee reviewed the above referenced case at 1130 Banta Court in Appleton, Wisconsin ("the Property") for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases.

Based on the correspondence and data provided, it appears that this case meets the closure requirements in ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time; however, current and future property owners must comply with certain continuing obligations as explained in this letter.

GIS Registry

This site will be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- Groundwater contamination is present above Chapter NR 140 enforcement standards

This letter and information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at http://dnr.wi.gov/org/aw/rr/gis/index.htm. If the property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4)(w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line http://dnr.wi.gov/org/water/dwg/3300254.pdf or at the web address listed above for the GIS Registry.

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Closure Conditions

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which the current property owner and any subsequent property owners must adhere. You must pass on the information about these continuing obligations to the next property owner or owners. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property, or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. The Department intends to conduct inspections in the future to ensure that the conditions included in this letter are met.

Residual Soil Contamination

Residual soil contamination remains throughout the Property as indicated on the attached Figures 22A, 23A, 24A, 25A, 28B, 29A and 29B by Shaw (post-excavation residual arsenic, lead, toluene, diesel range organics (DRO) and polynuclear aromatic hydrocarbons (PAHs) in soil from zero to four feet below ground surface (bgs) and four to ten feet) and the attached Figure 2 by RMT (metals in Telulah Canal bottom, since dewatered) and in the information submitted to the Department of Natural Resources. If soil in the specific locations described above is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Filing of Former Telulah Canal

As of the date of this letter, the Department understands that RiverHeath, LLC is working with the Waste and Materials Management ("Waste") Program for a low hazardous waste exemption / approval ("the Approval") to excavate contaminated soils from the northern portion of the Property and dispose of the soils on-site in the former Telulah Canal, dewatered in 2008. In July 2009, Oscar J. Boldt Construction ("Boldt") the developer for RiverHeath, LLC, placed an 18-inch compacted concrete cap over the dewatered canal bottom (approximately 11,000 tons of crushed concrete and clean demolition materials) to eliminate the direct contact concern with the impacted canal bottom, created by the dewatering of the Telulah Canal. According to the document, *RiverHeath Canal Fill Recommendations*, dated April 16, 2009 from River Valley Testing Corp. and addressed to Boldt, approximately nine feet of material (contaminated soils) are planned to be placed above the concrete cap followed by a four foot layer of clay and road sub-base or topsoil to final grade. The final details of placement of the contaminated soil and additional cover will be determined by the Waste Program. A copy of the Recommendations can be obtained in the case file in Oshkosh. Once issued, a copy of the Approval can be obtained from the Waste Program in Green Bay.

Further remediation/investigation needed. Site reopened 09-20-2013. Contact Project Manager for Assistance.

Residual Groundwater Contamination

Groundwater impacted by arsenic and benzene contamination greater than enforcement standards set forth in ch. NR140, Wis. Adm. Code, is present on this contaminated property. For more detailed information regarding the locations where groundwater samples have been collected (i.e., monitoring well locations) and the associated contaminant concentrations, refer to the Remediation and Redevelopment Program's GIS Registry at the RR Sites Map page at http://dnr.wi.gov/org/aw/rr/gis/index.htm.

Dewatering Permits

The Department's Watershed Management Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

Based on the concentrations of contaminants remaining in groundwater at this location, it appears likely that dewatering activities would require a permit from the Watershed Management Program. If you or any other person plan to conduct such activities, you or that person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at http://www.dnr.state.wi.us/org/water/wm/ww/.

Development at Historic Fill Site or Licensed Landfill Exemption

On May 12, 2008, the Department issued a " Conditional Case-by-Case Grant of Exemption for the Development of a Property Where Solid Waste has been Disposed, 1130 Banta Court, Appleton, WI" (the "Exemption") to Shaw Environmental, Inc. regarding the proposed remediation and redevelopment of the Property. A copy of the Exemption can be obtained in the case file in Oshkosh.

Chapter NR 140, Wis. Adm. Code Exemption

Recent groundwater monitoring data at this site indicates that for tetrachloroethylene ("PCE") and vinyl chloride at GPW-2, benzene at MW-14A and trichloroethylene ("TCE") and vinyl chloride at monitoring well, MW-41, contaminant levels exceed the NR 140 preventive action limit (PAL) but are below the enforcement standard (ES). The Department may grant an exemption to a PAL for a substance of public health concern, other than nitrate, pursuant to s. NR 140.28(2)(b), Wis. Adm. Code, if all of the following criteria are met:

1. The measured or anticipated increase in the concentration of the substance will be minimized to the extent technically and economically feasible.

2. Compliance with the PAL is either not technically or economically feasible.

3. The enforcement standard for the substance will not be attained or exceeded at the point of standards application. [Note: at this site the point of standards application is all points where groundwater is monitored.]

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

4. Any existing or projected increase in the concentration of the substance above the background concentration does not present a threat to public health or welfare.

Based on the information you provided, the Department believes that these criteria have been or will be met based on long-term historical monitoring and the remedial action excavation in November and December 2008. Therefore, pursuant to s. NR 140.28, Wis. Adm. Code, an exemption to the PAL is granted for PCE and vinyl chloride at GPW-2, benzene at MW-14A and TCE and vinyl chloride at monitoring well, MW-41. Please keep this letter, because it serves as your exemption.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Jennifer Borski at (920) 424-7887.

Sincerely,

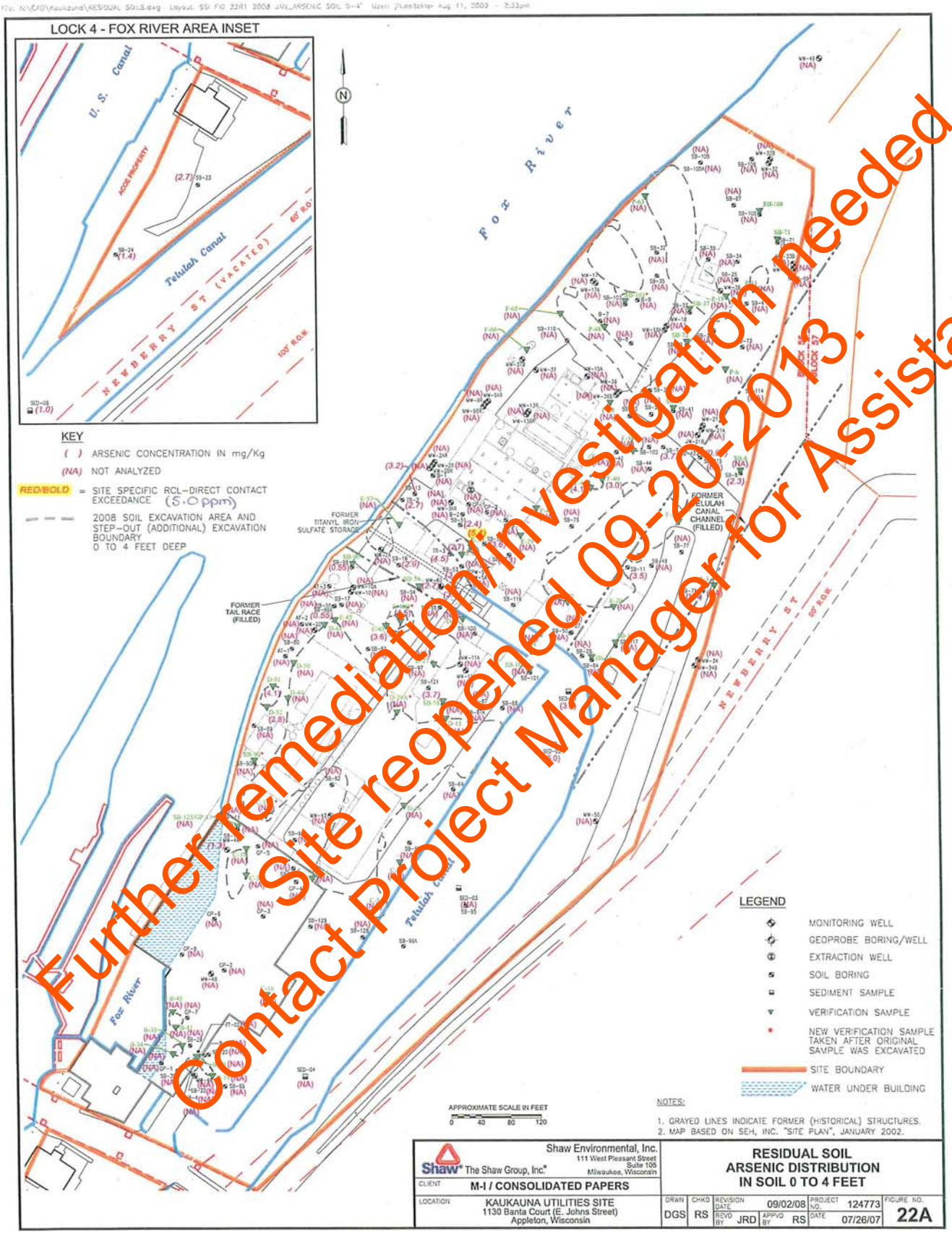
Bruce Urben, Team Supervisor
Northeast Remediation & Redevelopment Program

Attachments:

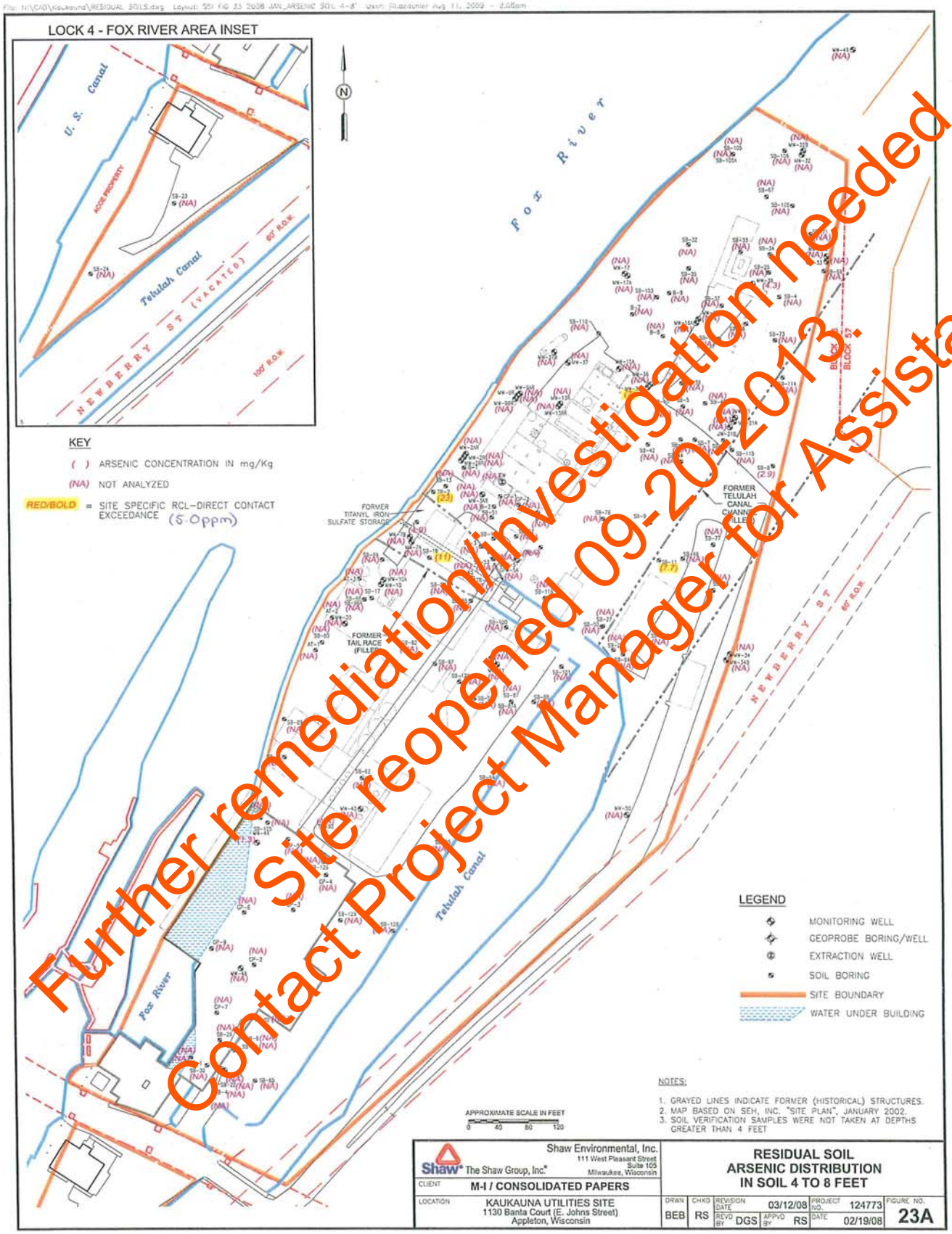
Figure 22A, *Residual Soil Arsenic Distribution in Soil 0 to 4 Feet*
Figure 23A, *Residual Soil Arsenic Distribution in Soil 4 to 8 Feet*
Figure 24A, *Residual Soil Lead Distribution in Soil 0 to 4 Feet*
Figure 25A, *Residual Soil Lead Distribution in Soil 4 to 10 Feet*
Figure 28B, *Soil Toluene Groundwater Pathway Exceedances in Soil 4 to 12 Feet*
Figure 29A, *Residual Soil Exceedances of PAH Distribution & DRO in Soil 0 to 4 Feet*
Figure 29B, *Residual Soil Exceedances of PAH Distribution & DRO in Soil 4 to 8 Feet*
Figure 2, *Kaukauna Utilities Telulah Canal Investigation, Sediment Sample Locations,* by RMT

Copy: M. Geall, RiverHeath LLC
J. Feldt, Kaukauna Utilities
K. Harkness, City of Appleton
B. Phelps, DNR – Madison, DG/5
J. Brand, DNR – Green Bay
J. Borski, DNR – Oshkosh

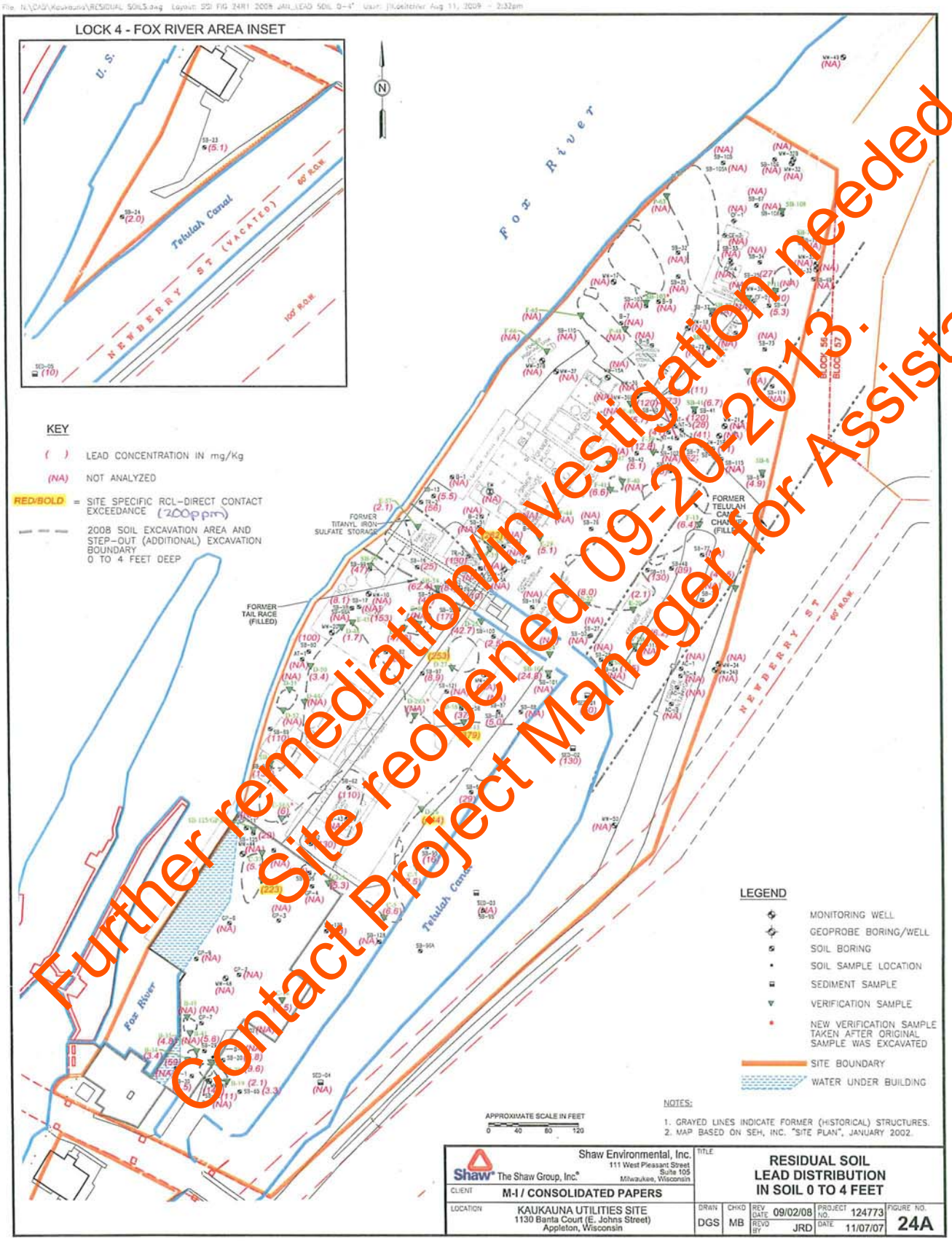
Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



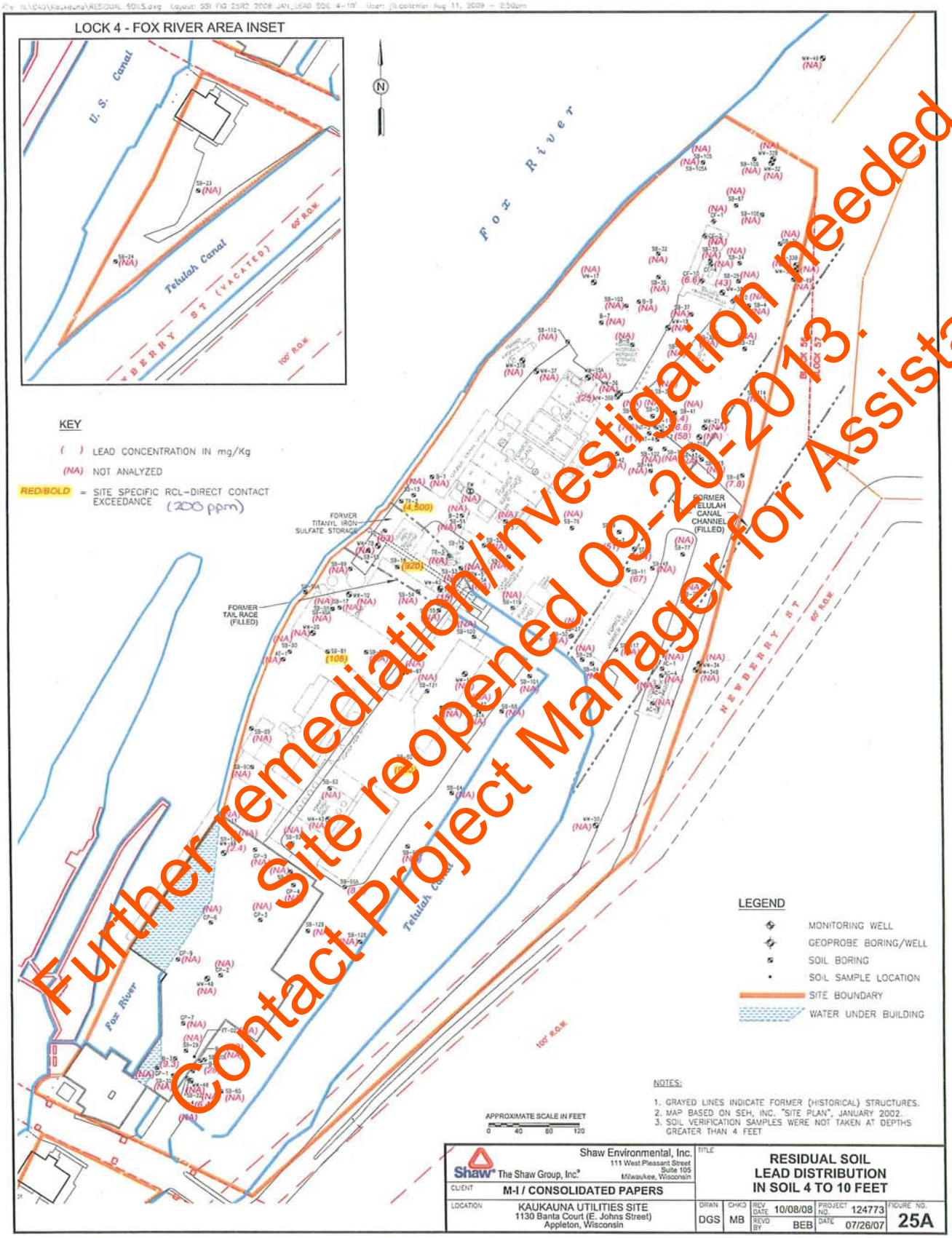
Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



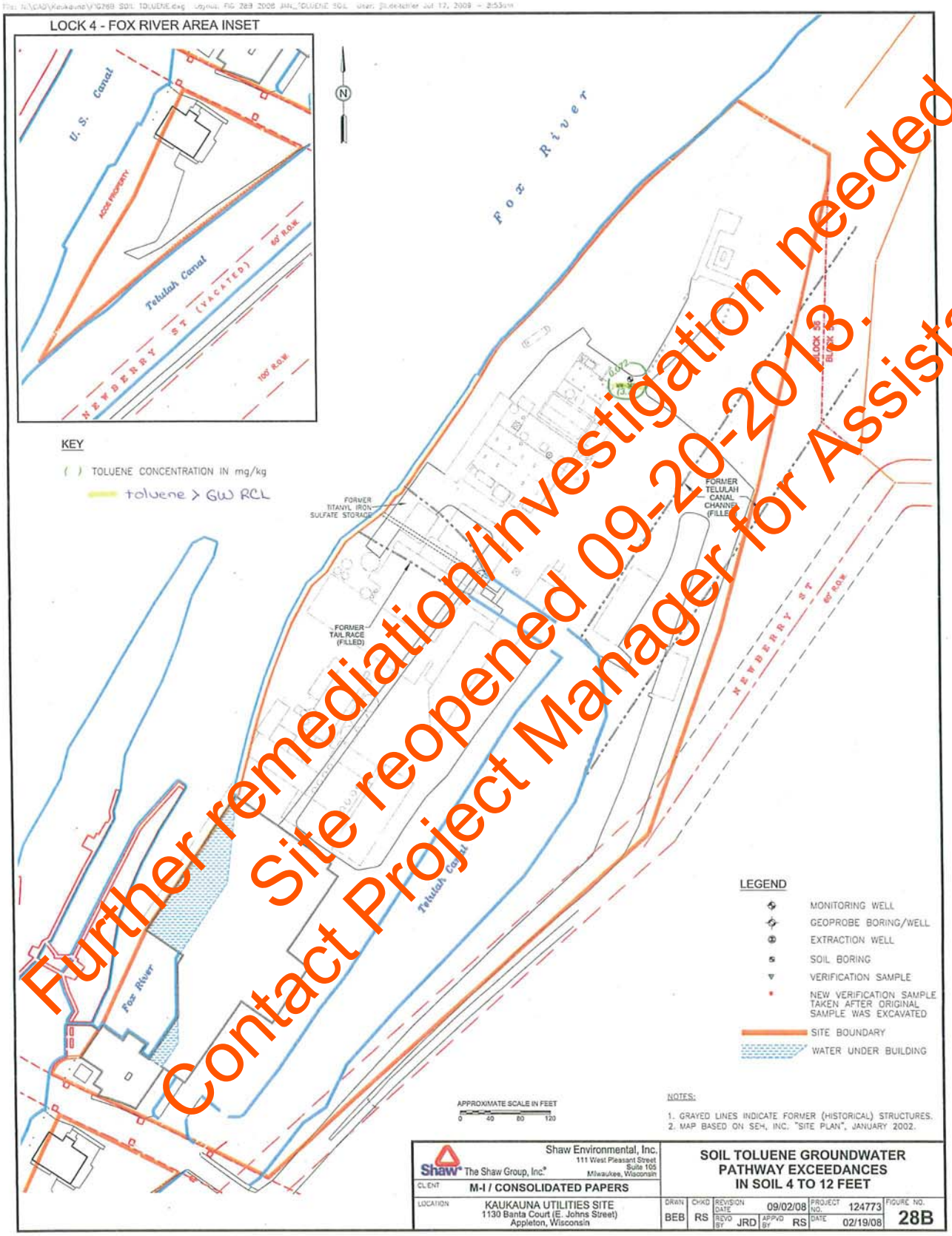
Further remediation investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



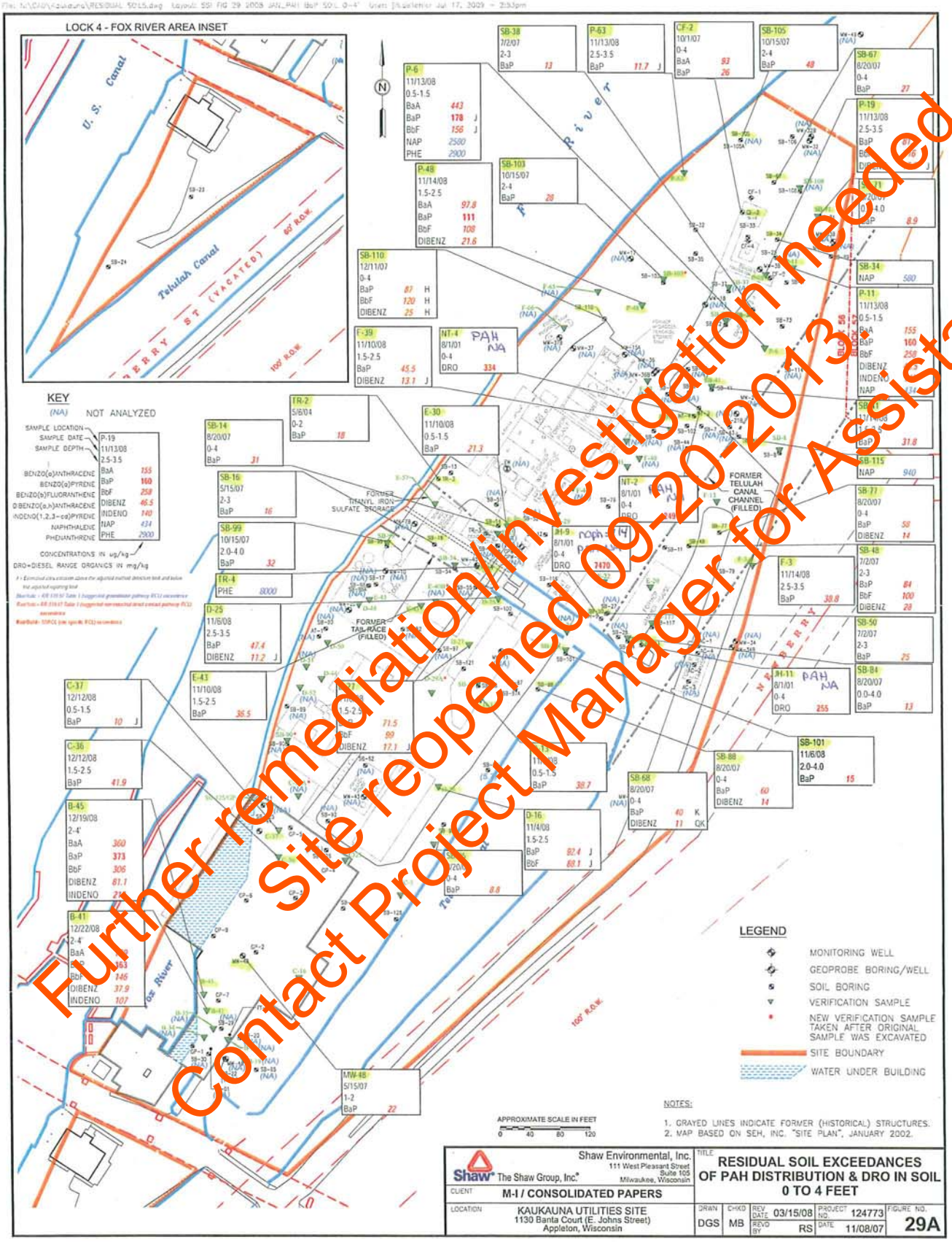
Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

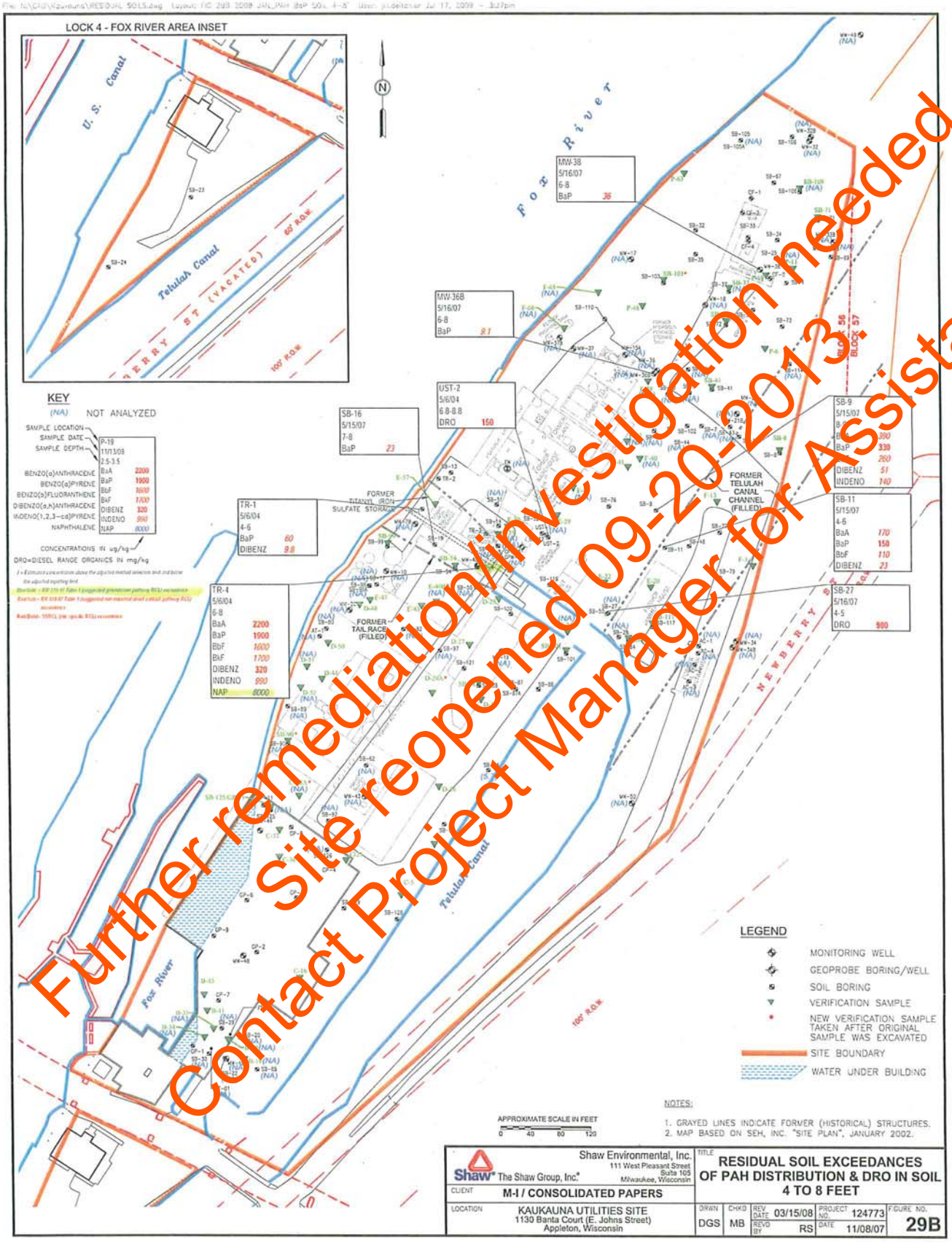


Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



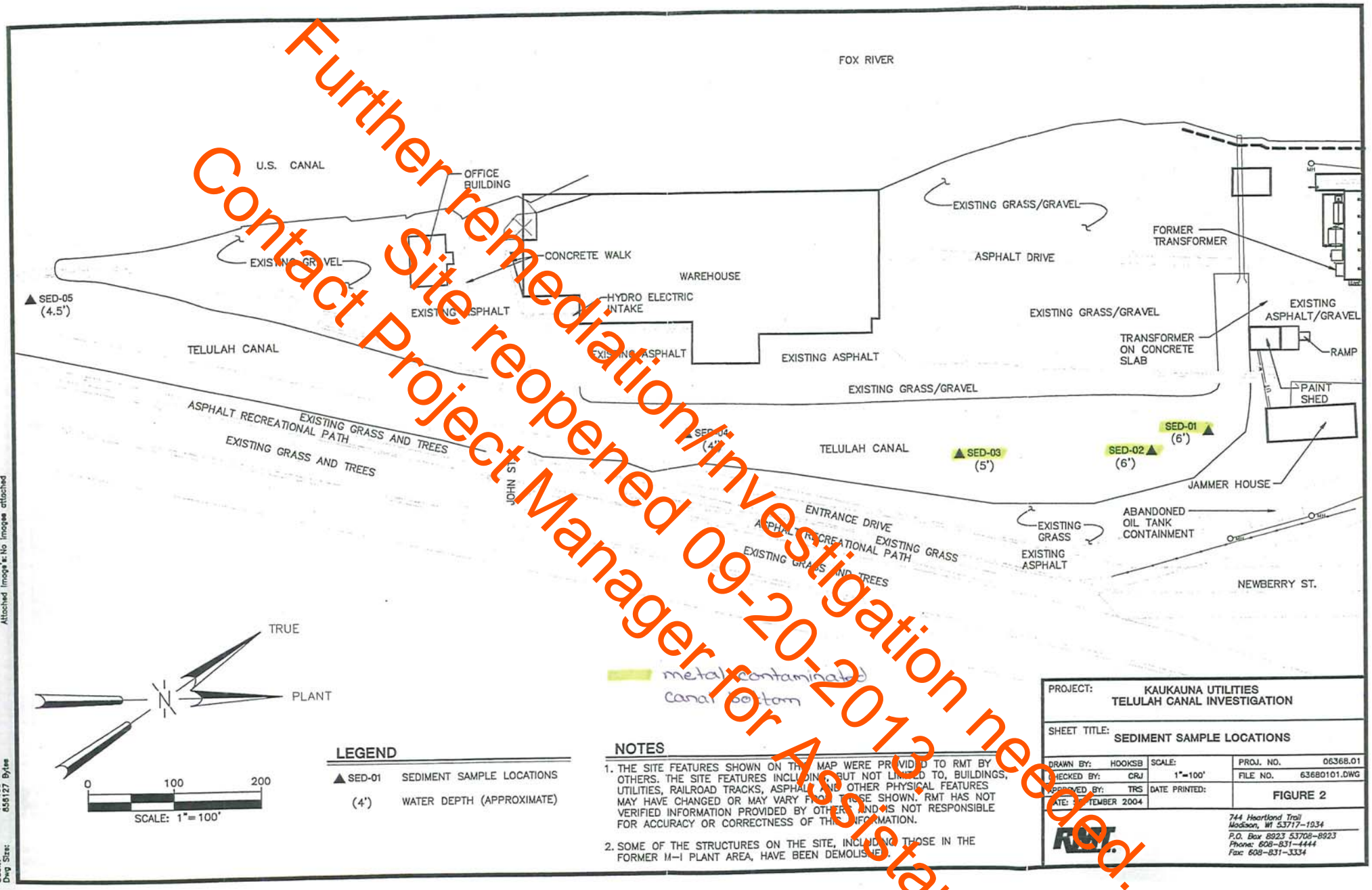
Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

remaining unsat soil > DC RCL @ 0-4' OR > GW RCL



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Further remediation/investigation needed.
Site reopened 09-20-2012.
Contact Project Manager for Assistance.



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 East County Road Y, STE. 700
Oshkosh, WI 54901-9731
TELEPHONE 920-424-3050
FAX 920-424-4404

September 1, 2009

SOURCE PROPERTY

MR MARK GEALL
RIVERHEATH LLC
1335 N DEARBORN NO 4
CHICAGO IL 60610

SUBJECT: Continuing Obligations and Property Owner Requirements for
1130 Banta Court, Appleton, Wisconsin
Parcel Identification Number: 314082802
Final Case Closure for **WDNR Site Name: Banta Court Property,**
1130 Banta Court (formerly John St.), Appleton, WI
WDNR BRRTS Activity #: 02-45-543762

Dear Mr. Geall:

The purpose of this letter is to notify you that certain continuing obligations apply to the property at 1130 Banta Court, Appleton, Wisconsin, (referred to in this letter as the "Property") due to contamination remaining on the Property. The continuing obligations are part of the cleanup and case closure approved for the above referenced case located at 1130 Banta Court. (The case is referenced by the location of the source property, i.e. the property where the original discharge occurred, prior to contamination migrating to the Property.) The continuing obligations that apply to the Property are stated as conditions in the attached closure approval letter, and are consistent with s. 292.12, Wis. Stats., and ch. NR 700, Wis. Adm. Code, rule series. They are meant to limit exposure to any remaining environmental contamination at the Property. These continuing obligations will also apply to future owners of the Property, until the conditions no longer exist at the Property.

It is common for properties with approved cleanups to have continuing obligations as part of cleanup/closure approvals. Information on continuing obligations on properties is shown on the Internet at http://dnr.wi.gov/org/aw/rr/gis/index.htm. How to find further information about the closure and residual contamination for this site can be located at http://dnr.wi.gov/org/aw/rr/clean.htm.

The Department reviewed and approved the case closure request regarding the metals, volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs) in soil and/or groundwater at this site, based on the information submitted by Shaw Environmental & Infrastructure, Inc. ("Shaw"). As required by state law, you received notification about the requested closure from the person conducting the cleanup. No further investigation or cleanup is required at this time. However, the closure decision is conditioned on the long-term compliance with certain continuing obligations, as described below.

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

SOURCE PROPERTY

Continuing Obligations Applicable to Your Property

A number of continuing obligations are described in the attached case closure letter to Mr. Jim Drought of Shaw, dated September 1, 2009. The continuing obligations described in the closure letter apply to your Property and are listed again below.

- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- Residual groundwater contamination is present above Ch NR 140 enforcement standards.

GIS Registry – Well Construction Approval Needed

Because of the residual soil and groundwater contamination and the continuing obligations, this site, which includes your Property, will be listed on the Department's internet accessible GIS Registry, at http://dnr.wi.gov/org/aw/rr/gis/index.htm. If you intend to construct or reconstruct a well on the Property, you will need to get Department approval in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. A well driller can help with this form. This form can be obtained on-line http://dnr.wi.gov/org/water/dwg/3300254.pdf. If at some time all these continuing obligations are fulfilled, and the remaining contamination is either removed or meets applicable standards, you may request the removal of the Property from the GIS Registry.

Property Owner Responsibilities

The owner (you and any subsequent property owner) of this Property is responsible for compliance with these continuing obligations, pursuant to s. 292.12, Wis. Stats. You are strongly encouraged to pass on the information about these continuing obligations to anyone who purchases this property from you (i.e. pass on this letter). For residential property transactions, you are required to make disclosures under Wis. Stats. s. 709.02. You may have additional obligations to notify buyers of the condition of the property and the continuing obligations set out in this letter and the closure letter.

Please be aware that failure to comply with the continuing obligations may result in enforcement action by the Department. The Department intends to conduct inspections in the future to ensure that the conditions included in this letter, including compliance with referenced maintenance plans, are met.

These responsibilities are the property owner's. A property owner may enter into a legally binding agreement (such as a contract) with someone else (the person responsible for the cleanup) to take responsibility for compliance with the continuing obligations. If the person with whom any property owner has an agreement fails to adequately comply with the appropriate continuing obligations, the Department has the authority to require the property owner to complete the necessary work.

A legal agreement between you and another party to carry out any of the continuing obligations listed in this letter does not automatically transfer to a new owner of the property. If a subsequent property owner cannot negotiate a new agreement, the responsibility for compliance with the applicable continuing obligations resides with that Property owner.

Further remediation/investigation needed. Site reopened 09-20-2013. Contact Project Manager for Assistance.

SOURCE PROPERTY

When maintenance of a continuing obligation is required, the Property owner is responsible for inspections, repairs, or replacements as needed. Such actions should be documented by the Property owner and the records kept accessible for the Department to review for as long as the Department directs.

You and any subsequent Property owners are responsible for notifying the Department, and obtaining approval, before making any changes to the property that would affect the obligations applied to the Property. Send all written notifications in accordance with the above requirements to the Oshkosh DNR Service Center at 625 East County Road Y, Suite 700, Oshkosh, WI 54901-9731, to the attention of Jennifer Borski or "Remediation and Redevelopment Program, Project Manager for Outagamie County".

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Jennifer Borski at (920) 424-7887.

Sincerely,

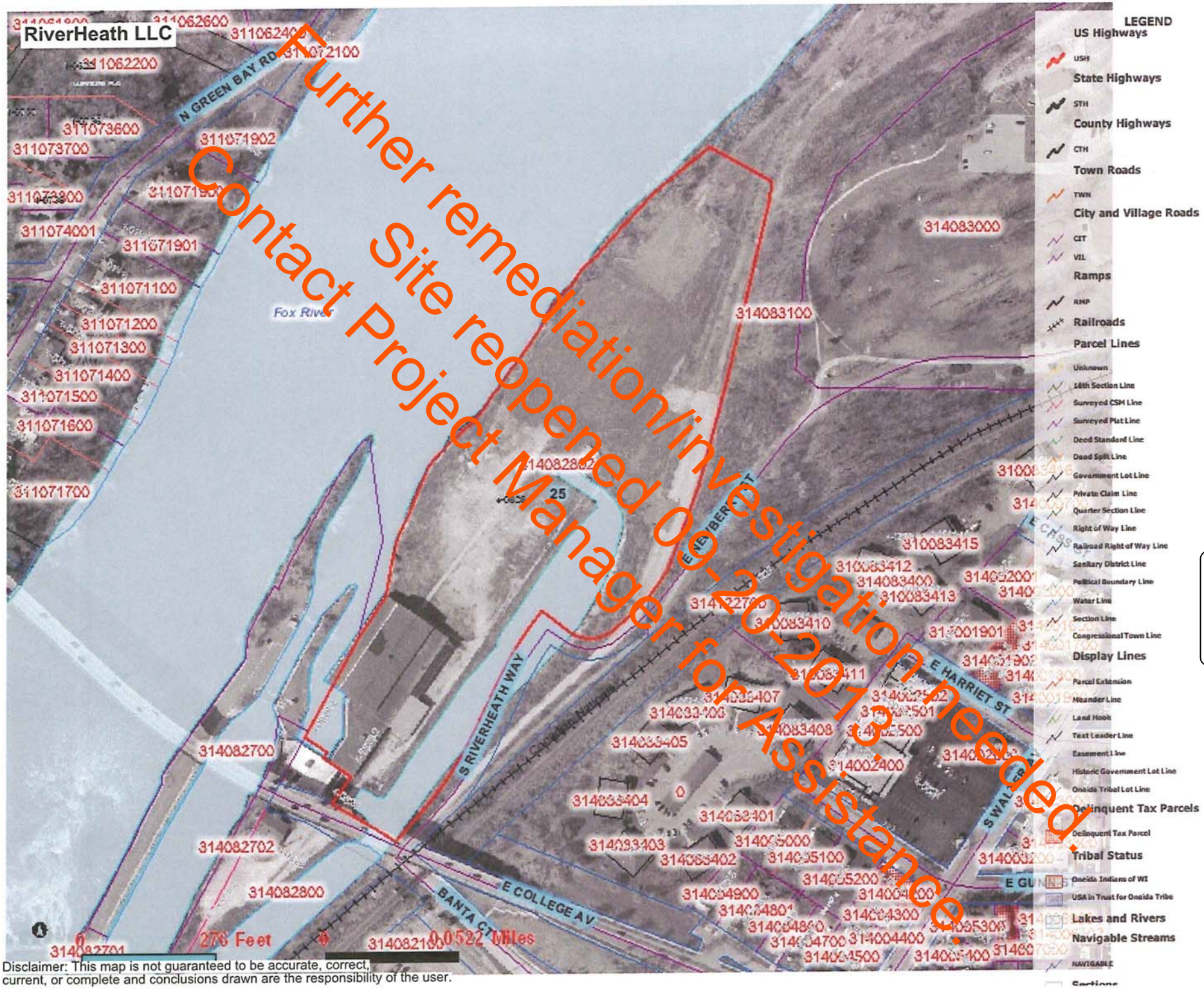
Bruce Urben, Team Supervisor
Northeast Remediation & Redevelopment Program

Attach.

Enclosure: RR 819 – Continuing Obligations Fact Sheet

Copy: J. Drought, Shaw
J. Feldt, Kaukauna Utilities
J. Borski, DNR – Oshkosh

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Disclaimer: This map is not guaranteed to be accurate, correct, current, or complete and conclusions drawn are the responsibility of the user.

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 East County Road Y, STE. 700
Oshkosh, WI 54901-9731
TELEPHONE 920-424-3050
FAX 920-424-4404

October 30, 2009

JIM DROUGHT
SHAW ENVIRONMENTAL LIABILITY SOLUTIONS LLC
111 W PLEASANT ST STE 105
MILWAUKEE WI 53212-3939

Subject: A *Certificate of Completion* for Property Located at 1130 Banta Court (Formerly East John Street), Appleton, Wisconsin
WDNR Site Name: M-I, LLC VPLE
WDNR VPLE BRRTS #: 06-45-548615

Dear Mr. Drought:

The Department of Natural Resources ("the Department") is pleased to provide Shaw Environmental Liability Solutions, LLC (SELS) with a *Certificate of Completion* for the environmental investigation and remedial actions taken at 1130 Banta Court (formerly East John Street), City of Appleton, Wisconsin, ("the Property") under the guidelines of s. 292.15(2), Wis. Stats.

The Department appreciates the work undertaken by SELS to investigate and restore, to the extent practicable, the contamination associated with the Property. The exemption provided by the *Certificate of Completion* applies to any successor or assignee of SELS, if the successor or assignee complies with the appropriate conditions, pursuant to s. 292.15(3), Wis. Stats.

If you have any questions or concerns regarding this letter or the *Certificate of Completion*, please contact me in Oshkosh at (920) 424-7887 or via electronic mail at jennifer.borski@wisconsin.gov.

Sincerely,

Jennifer Borski
Hydrogeologist
Bureau for Remediation and Redevelopment

Attachment: *Certificate of Completion*

cc: Mr. Mark Geall, RiverHeath, LLC
Mr. Jeff Heldt, Kaukauna Utilities
Mr. James C. Webster, MI SWACO, 5950 North Course Drive, Houston, TX 77072
Mr. Arthur J.J. Leutermann, MI SWACO, 5950 North Course Drive, Houston, TX 77072
Mr. Richard Heinemann, Boardman Law Firm
Mr. Michael Prager, DNR, Madison – RR/5

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

State of Wisconsin
Department of Natural Resources

CERTIFICATE OF COMPLETION
OF RESPONSE ACTIONS
UNDER SECTION 292.15(2)(ae), WIS. STATS.

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Whereas, **Shaw Environmental Liability Solutions, LLC** has applied for an exemption from liability under s. 292.15, Wis. Stats. for the property located at 1130 Banta Court, Appleton, Wisconsin, which is commonly referred to as the Banta Court Property, M-I, LLC Site, Consolidated Papers Site, or Kaukauna Utilities Site, further described in the legal description found on Attachment A (the "Property");

Whereas, an environmental investigation of the Property has been conducted and the Wisconsin Department of Natural Resources ("WDNR") has determined that environmental contamination exists at the Property;

Whereas, **Shaw Environmental, LLC**, has submitted to the WDNR certain investigation reports and a remedial action plan for the Property which comply with the requirements set forth in chs. NR 700-754, Wis. Adm. Code, consisting of the documents and reports listed in Attachment B;

Whereas, in accordance with s. 292.15(2)(ae), Wis. Stats., the WDNR has determined that an environmental investigation has been conducted which adequately identified and evaluated the nature and extent of the hazardous substance discharges on the Property and WDNR has approved of the site investigation and remedial action plan for the Property;

Whereas, on September 9, 2008, the WDNR has granted **Shaw Environmental Liability Solutions, LLC** an exemption under s. NR 140.28(2)(a), Wis. Adm. Code for having **sulfate,** a substance of public welfare concern, in the groundwater above the ch. NR 140 enforcement standard, having taken all technically and economically feasible actions;

Whereas, on September 1, 2009, the WDNR has granted **Shaw Environmental Liability Solutions, LLC** an exemption under s. NR 140.28(2)(b), Wis. Adm. Code for having **tetrachloroethylene ("PCE"),**

trichloroethylene ("TCE"), vinyl chloride, and benzene in the groundwater above the ch. NR 140 preventive action limit;

Whereas, Shaw Environmental Liability Solutions, LLC has paid to WDNR the appropriate insurance fee and has submitted a complete insurance application form to obtain coverage for the Property under the state's master insurance contract in accordance with s. 292.15(2)(ae)3m., Wis. Stats., and ch. NR 754, Wis. Adm. Code, based on their desire to use natural attenuation to remediate groundwater contamination that exceeds ch. NR 140, Wis. Adm. Code, groundwater quality enforcement standards;

Whereas, the Property with soil contamination that exceeds site-specific and/or generic residual contaminant levels ("RCLs") under ch. NR 720, Wis. Adm. Code, and groundwater contamination that exceeds a groundwater quality enforcement standard under ch. NR 140, Wis. Adm. Code, will be included on the WDNR's Geographical Information System data base ("the GIS Registry") pursuant to s. 292.12(3), Wis. Stats. **Shaw Environmental, LLC** has submitted to the WDNR all the information necessary to be included on the GIS Registry pursuant to s. NR 726.05(2)(a)3. and s. NR 726.05(3)(a)4., Wis. Adm. Code;

Whereas, on **September 1, 2009**, the WDNR issued case closure letters for the Property for the case "Banta Court Property" (WDNR BRRTS #02-45-548762 - Attachment C), and for the case "M-I, LLC" (WDNR BRRTS #02-45-181585 - Attachment D). On **February 19, 2009**, the Wisconsin Department of Commerce issued a case closure letter for the Property (Attachment E), for the case "M-I, LLC – Front Warehouse AST" (WDNR BRRTS #02-45-272992). The owner of this Property shall adhere to, abide by and maintain the land use controls and other requirements that are specified in the attached state case closure letters;

Whereas, the WDNR has determined that the fill brought onto the Property in the past does not qualify as exempt under s. NR 500.08, Wis. Adm. Code. Due to the non-exempt status of the fill, any person who proposes to redevelop or construct on the Property must obtain approval from the WDNR under s. NR 506.085, Wis. Adm. Code, prior to the initiation of any redevelopment of or construction on the Property. On September 9, 2008, WDNR issued a Conditional Grant of Exemption for Development of a Historic Fill Site, included as Attachment F. Proposed development on the Property that was not approved in the September 9, 2008 Conditional Grant of Exemption will require approval by the WDNR under s. NR 506.085, Wis. Adm. Code, prior to initiating any additional development of the Property.;

Whereas, if the requirements of case closure are not followed, the

Further remediation/investigation needed. Site reopened 09-20-2013. Contact Project Manager for Assistance.

WDNR may take actions under ss. 292.11 or 292.12, Wis. Stats., to ensure compliance with the specified requirements, and the person who owns or controls the Property may no longer qualify for the liability protections under s. 292.15, Wis. Stats.; and

Whereas, on **September 1, 2009,** the WDNR determined that response actions necessary to restore the environment to the extent practicable with respect to the discharges and to minimize the harmful effects from the discharges to air, land, and waters of the state were completed, except with respect to groundwater contaminated with **Arsenic, Benzene, and Chromium** above the ch. NR 140, Wis. Adm. Code, groundwater quality enforcement standards that the WDNR has determined will be brought into compliance through natural attenuation, in accordance with administrative rules promulgated by the WDNR.

Therefore, based upon the information that has been submitted to the WDNR, the WDNR hereby certifies that the response actions set forth in the WDNR approved remedial action plan for the Property and any other necessary response actions have been completed, except with respect to **Arsenic, Benzene, and Chromium** contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards that WDNR has determined will be brought into compliance through natural attenuation, in accordance with rules promulgated by WDNR.

Upon issuance of this Certificate, **Shaw Environmental Liability Solutions, LLC** and the persons qualified for protection under s. 292.15(3), Wis. Stats., are exempt from the provisions of ss. 289.05(1), (2), (3) and (4), 289.42(1), 289.67, 291.25(1) to (5), 291.29, 291.37, 292.11(3), (4), and (7)(b) and (c) and 292.31(8), Wis. Stats., with respect to the existence of hazardous substances on or originating from the Property, the release of which occurred prior to the date the WDNR approved the environmental investigation required under s. 292.15(2)(ae)1., Wis. Stats. However, **Shaw Environmental Liability Solutions, LLC** and a person otherwise qualified for protection under s. 292.15(3), Wis. Stats., who owns or controls the Property would no longer qualify for this liability exemption if that person fails to maintain or monitor the Property as required by the conditions in this Certificate, the February 19, 2009 and September 1, 2009 case closure letters, s. 292.12, Wis. Stats., and administrative rules promulgated by the WDNR. Any discharges of a hazardous substance to or from the Property that occur after the date that the environmental investigation was approved will be the responsibility of the current Property owner and any other person who possesses or controls that discharge and any person who caused the discharge.

Further remediation/investigation needed. Site reopened 09-20-2013. Contact Project Manager for Assistance.

If natural attenuation fails, the insurance coverage under s. 292.15(2)(ae)3m., Wis. Stats., may be used to cover the costs of complying with s. 292.11(2), Wis. Stats., with respect to groundwater quality.

The protection from liability provided under s. 292.15(2), Wis. Stats., does not apply to any person who has obtained a Certificate of Completion by fraud or misrepresentation, or by the knowing failure to disclose material information or under circumstances in which **Shaw Environmental Liability Solutions, LLC** knew or should have known about more discharges of hazardous substances than was revealed by the investigation approved by the WDNR.

Nothing in this Certificate or in s. 292.15, Wis. Stats., affects the authority of the WDNR to exercise any powers or duties under applicable laws other than ss. 289.05(1), (2), (3) and (4), 289.42(1), 289.67, 291.25(1) to (5), 291.29, 291.37, 292.11(3), (4), and (7)(b) and (c) and 292.31(8), Wis. Stats., with respect to any release or threatened release of contaminants at the Property, or the right of the WDNR to seek relief available against any person who is not entitled to protection from liability under s. 292.15, Wis. Stats., with respect to such release or threatened release.

SIGNED AND CERTIFIED this 23rd day of October, 2009.

Matthew Frank, Secretary
Wisconsin Department of Natural Resources

Further remediation/investigation needed
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

ATTACHMENT A
LEGAL DESCRIPTION
M-I, LLC VPLE

See attached legal description from the Martenson & Eisele, Inc. Drawing No. 157-554, *Plat of Survey, Part of Blocks 55 and 56, Fourth Ward Plat, City of Appleton, Outagamie County, Wisconsin,* certified July 17, 2003 by WI Land Surveyor, Jerome H. Kaiser, S-2247

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

LEGAL DESCRIPTION OF SITE

Part of Blocks 55 and 56 , Fourth Ward Plat, City of Appleton, Outagamie County, Wisconsin more fully described as follows:

Commencing at the southwest corner of Block 58 of said Fourth Ward Plat where it intersects with the northerly line of lands owned by the Chicago and Northwestern Railroad Company; thence south 78 degrees 26 minutes 03 seconds West, 41.60 feet; thence North 16 degrees 27 minutes 39 seconds East, 116.31 feet to the point of beginning; thence along the westerly right-of-way of Vacated Newberry Street, South 31 degrees 24 minutes 29 seconds West, 69.80 feet; thence continuing along the Westerly right-of-way of Vacated Newberry Street, South 44 degrees 27 minutes 15 seconds West, 728.25 feet; thence along the Northerly right-of-way of John Street, North 62 degrees 38 minutes 12 seconds West, 162.39 feet to a point hereafter referred to as Point "A"; thence continuing along the Northerly right-of-way of John Street, 74 degrees 49 minutes 00 seconds West, 97.48 feet to a meander corner, being south 74 degrees 49 minutes 00 seconds East, 20 feet more or less from the waters edge of the Fox River; thence along a meander line North 31 degrees 28 minutes 32 seconds East, 1592.49 feet to a meander corner, being South 63 degrees 24 minutes 18 seconds East, 20 feet more or less from the water edge of the Fox River; thence along the Northerly line of Block 56 of said Fourth Ward Plat, South 63 degrees 24 minutes 18 seconds East, 130.51 feet; thence South 01 degrees 33 minutes 18 seconds East, 34,56 feet; thence South 09 degrees 15 minutes 57 seconds West, 107.81 feet; thence South 09 degrees 45 minutes 57 seconds West, 38[illegible].60 feet; thence South 11 degrees 25 minutes 56 seconds West, 211.40 feet; thence South 16 degrees 27 minutes 39 seconds West, 187.71 feet to the point of beginning.

and also:

thence commencing at said Point "A"; thence South 21 degrees 16 minutes 24 seconds West, 60.34 feet to the point of beginning; thence along the Southerly right-of-way of John Street, South 62 degrees 38 minutes 12 seconds East, 61.32 feet to a meander corner, being North 62 degrees 31 minutes 12 seconds West, 24 feet more or less from the waters edge of an existing canal; thence along a meander line South 47 degrees 24 minutes 57 seconds West, 405.64 feet to a meander corner being South 65 degrees 02 minutes 04 seconds East, 20 feet more or less from the waters edge of the Fox River; thence along a meander line North 23 degrees 43 minutes 50 seconds East, 360.04 feet to a meander corner being South 74 degrees 49 minutes 00 seconds East, 20 feet more or less from the waters edge of the Fox River; thence along the Southerly right-of-way of John Street, South 74 degrees 49 minutes 00 seconds East, 102.89 feet to the point of beginning.

Said Parcel contains 670,027 sq. ft. more or less [15.38 acres more or less], including all lands lying between the meander lines and the waters edge of the existing canal and the Fox River.

Further remediation/investigation needed.
Site reopened 09-20-2019.
Contact Project Manager for Assistance.

ATTACHMENT B
INVESTIGATION AND REMEDIAL ACTION PLAN REPORTS
M-I, LLC VPLE

2003

- *"Phase II Interim Action Construction Documentation Report, Former M-I Facility, 1130 East John Street, Appleton, Wisconsin,* TSCI, October 2003.

2004

- *Brownfield Site Assessment Grant Final Report (SAG-210) – Telulah Canal Investigation, Kaukauna Utilities, Kaukauna, Wisconsin,* RMT, September 24, 2004.

2007

- *"Site Investigation / Remedial Action Plan, M-I/Consolidated Papers/Kaukauna Utilities Site, 1130 Banta Court (East John Street), Appleton, Wisconsin,* Shaw Environmental, Inc., February 2007.

2008

- *"Wisconsin Administrative Code Chapter NR 140.28 Exemption Request, M-I LLC VPLE, 1130 Banta Court, Appleton, Wisconsin",* Shaw Environmental, Inc., June 2, 2008.
- *"Supplemental Site Investigation Report and Strategy for Site Closure, Revision-2, M-I/Consolidated Papers/Kaukauna Utilities Site, 1130 Banta Court (East John Street), Appleton, Wisconsin",* Shaw Environmental, Inc., October, 2008.
- *"Soil Management Plan, M-I/Consolidated Papers/Kaukauna Utilities Site, 1130 Banta Court, Appleton, Wisconsin, Revision 1",* Shaw Environmental, Inc., October 29, 2008.

2009

- *"Remedial Implementation and Documentation Report, M-I/Consolidated Papers/Kaukauna Utilities Site, 1130 Banta Court, Appleton, Wisconsin",* Shaw Environmental, Inc., February, 2009.
- *"Closure Assessment Report, M-I/Consolidated Papers/Kaukauna Utilities Site, 1130 Banta Court (East John Street), Appleton, Wisconsin",* Shaw Environmental, Inc., February, 2009.

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

ATTACHMENT C
Closure Letter
M-I, LLC VPLE

See Attached September 1, 2009 Case Closure Letter, "Banta Court Property"

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 East County Road Y, STE. 700
Oshkosh, WI 54901-9731
TELEPHONE 920-424-3050
FAX 920-424-4404

September 1, 2009

JIM DROUGHT
SHAW ENVIRONMENTAL & INFRASTRUCTURE INC
111 W PLEASANT ST STE 105
MILWAUKEE WI 53212-3939

SUBJECT: Final Case Closure with Continuing Obligations
WDNR Site Name: Banta Court Property, 1130 Banta Court (formerly John Street), Appleton, WI
WDNR BRRTS Activity #: 02-45-548762

Dear Mr. Drought:

On August 14, 2009, the Northeast Region Closure Committee reviewed the above referenced case at 1130 Banta Court in Appleton, Wisconsin ("the Property") for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases.

Based on the correspondence and data provided, it appears that this case meets the closure requirements in ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time; however, current and future property owners must comply with certain continuing obligations as explained in this letter.

GIS Registry

This site will be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- Groundwater contamination is present above Chapter NR 140 enforcement standards

This letter and information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at http://dnr.wi.gov/org/aw/rr/gis/index.htm. If the property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4)(w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line http://dnr.wi.gov/org/water/dwg/3300254.pdf or at the web address listed above for the GIS Registry.

Further remediation investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Closure Conditions

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which the current property owner and any subsequent property owners must adhere. You must pass on the information about these continuing obligations to the next property owner or owners. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. The Department intends to conduct inspections in the future to ensure that the conditions included in this letter are met.

Residual Soil Contamination

Residual soil contamination remains throughout the Property as indicated on the attached Figures 22A, 23A, 24A, 25A, 28B, 29A and 29B by Shaw (post-excavation residual arsenic, lead, toluene, diesel range organics (DRO) and polynuclear aromatic hydrocarbons (PAHs) in soil from zero to four feet below ground surface (bgs) and four to ten feet) and the attached Figure 2 by RMT (metals in Telulah Canal bottom since dewatered) and in the information submitted to the Department of Natural Resources. If soil in the specific locations described above is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Filing of Former Telulah Canal

As of the date of this letter, the Department understands that RiverHeath, LLC is working with the Waste and Materials Management ("Waste") Program for a low hazardous waste exemption / approval ("the Approval") to excavate contaminated soils from the northern portion of the Property, and dispose of the soils on-site in the former Telulah Canal, dewatered in 2008. In July 2009, Oscar J. Boldt Construction ("Boldt") the developer for RiverHeath, LLC, placed an 18-inch compacted concrete cap over the dewatered canal bottom (approximately 11,000 tons of crushed concrete and clean demolition materials) to eliminate the direct contact concern with the impacted canal bottom, created by the dewatering of the Telulah Canal. According to the document, *RiverHeath Canal Fill Recommendations*, dated April 16, 2009 from River Valley Testing Corp. and addressed to Boldt, approximately nine feet of material (contaminated soils) are planned to be placed above the concrete cap followed by a four foot layer of clay and road sub-base or topsoil to final grade. The final details of placement of the contaminated soil and additional cover will be determined by the Waste Program. A copy of the Recommendations can be obtained in the case file in Oshkosh. Once issued, a copy of the Approval can be obtained from the Waste Program in Green Bay.

Further remediation/investigation needed. Site reopened 09-20-2013. Contact Project Manager for Assistance.

Residual Groundwater Contamination

Groundwater impacted by arsenic and benzene contamination greater than enforcement standards set forth in ch. NR140, Wis. Adm. Code, is present on this contaminated property. For more detailed information regarding the locations where groundwater samples have been collected (i.e., monitoring well locations) and the associated contaminant concentrations, refer to the Remediation and Redevelopment Program's GIS Registry at the RR Sites Map page at http://dnr.wi.gov/org/aw/rr/gis/index.htm.

Dewatering Permits

The Department's Watershed Management Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

Based on the concentrations of contaminants remaining in groundwater at this location, it appears likely that dewatering activities would require a permit from the Watershed Management Program. If you or any other person plan to conduct such activities, you or that person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at http://www.dnr.state.wi.us/org/water/wm/ww/.

Development at Historic Fill Site or Licensed Landfill Exemption

On May 12, 2008, the Department issued a "Conditional Case-by-Case Grant of Exemption for the Development of a Property Where Solid Waste has been Disposed, 1130 Banta Court, Appleton, WI" (the "Exemption") to Shaw Environmental, Inc. regarding the proposed remediation and redevelopment of the Property. A copy of the Exemption can be obtained in the case file in Oshkosh.

Chapter NR 140, Wis. Adm. Code Exemption

Recent groundwater monitoring data at this site indicates that for tetrachloroethylene ("PCE") and vinyl chloride at GP-W-2, benzene at MW-14A and trichloroethylene ("TCE") and vinyl chloride at monitoring well, MW-11, contaminant levels exceed the NR 140 preventive action limit (PAL) but are below the enforcement standard (ES). The Department may grant an exemption to a PAL for a substance of public health concern, other than nitrate, pursuant to s. NR 140.28(2)(b), Wis. Adm. Code, if all of the following criteria are met:

1. The measured or anticipated increase in the concentration of the substance will be minimized to the extent technically and economically feasible.

2. Compliance with the PAL is either not technically or economically feasible.

3. The enforcement standard for the substance will not be attained or exceeded at the point of standards application. [Note: at this site the point of standards application is all points where groundwater is monitored.]

Further remediation/investigation needed. Site reopened 09-20-2013. Contact Project Manager for Assistance.

4. Any existing or projected increase in the concentration of the substance above the background concentration does not present a threat to public health or welfare.

Based on the information you provided, the Department believes that these criteria have been or will be met based on long-term historical monitoring and the remedial action excavation in November and December 2008. Therefore, pursuant to s. NR 140.28, Wis. Adm. Code, an exemption to the PAL is granted for PCE and vinyl chloride at GPW-2, benzene at MW-14A and TCE and vinyl chloride at monitoring well, MW-41. Please keep this letter, because it serves as your exemption.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Jennifer Borski at (920) 424-7887.

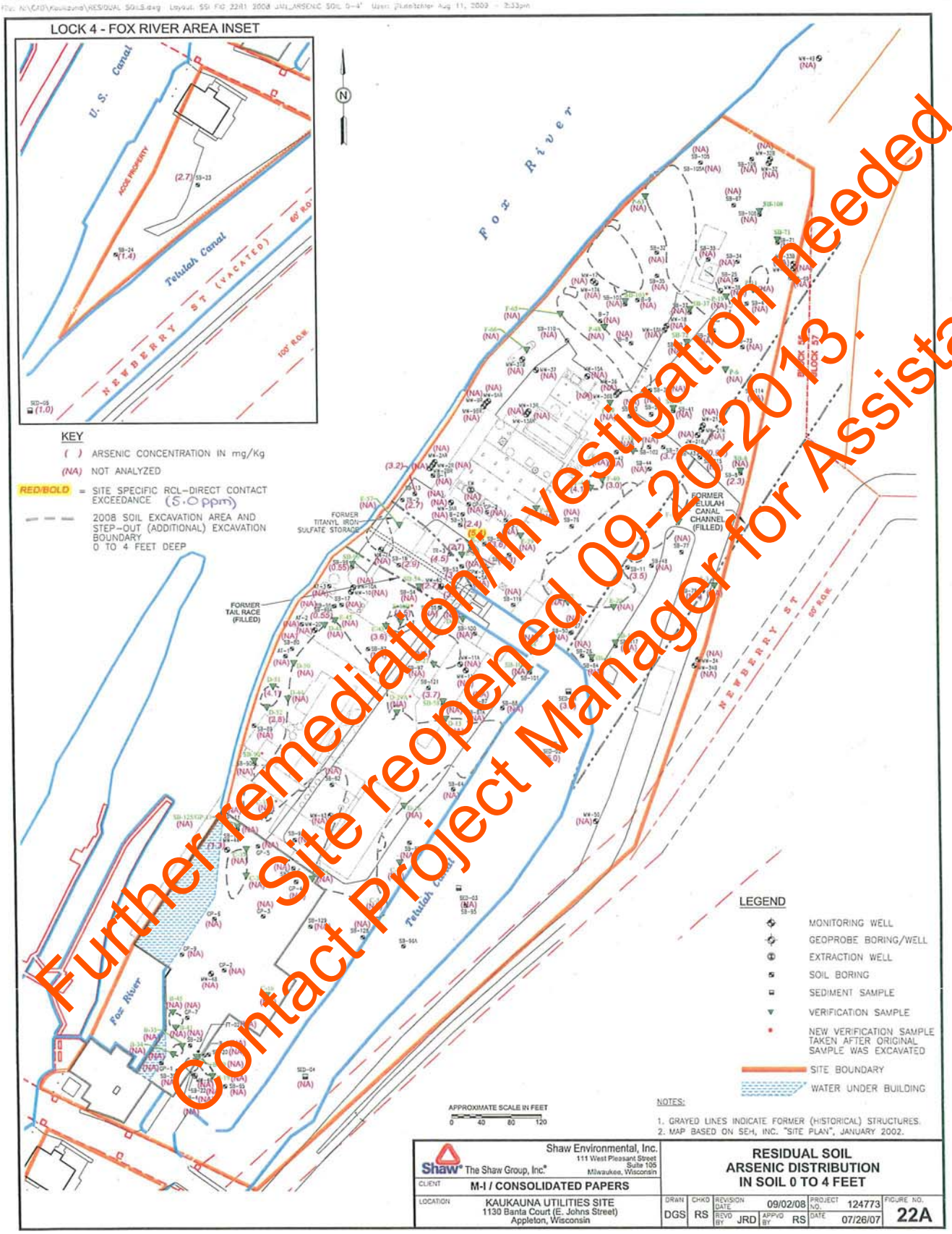
Sincerely,

Bruce Urben, Team Supervisor
Northeast Remediation & Redevelopment Program

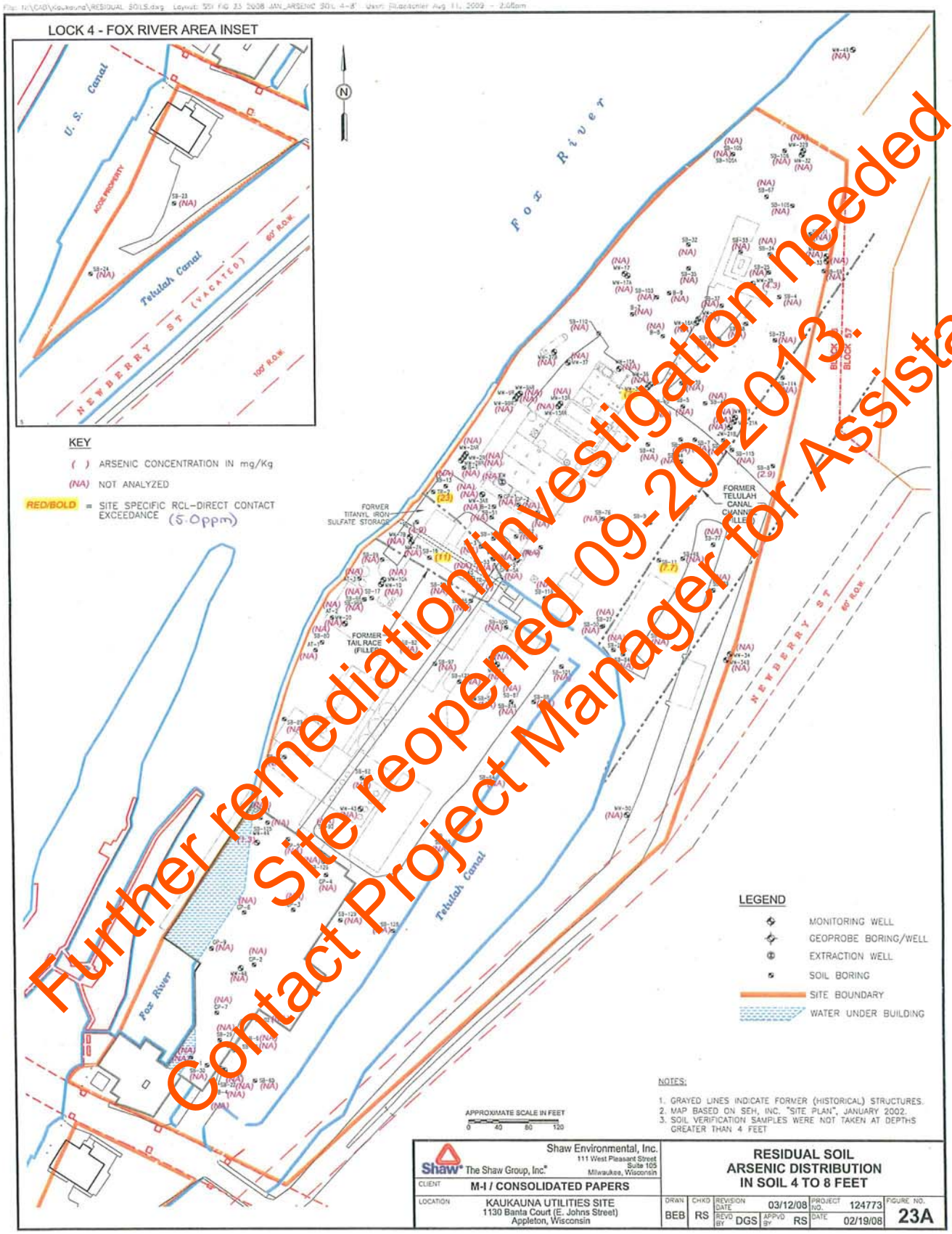
Attachments:
Figure 22A, *Residual Soil Arsenic Distribution in Soil 0 to 4 Feet*
Figure 23A, *Residual Soil Arsenic Distribution in Soil 4 to 8 Feet*
Figure 24A, *Residual Soil Lead Distribution in Soil 0 to 4 Feet*
Figure 25A, *Residual Soil Lead Distribution in Soil 4 to 10 Feet*
Figure 28B, *Soil Toluene Groundwater Pathway Exceedances in Soil 4 to 12 Feet*
Figure 29A, *Residual Soil Exceedances of PAH Distribution & DRO in Soil 0 to 4 Feet*
Figure 29B, *Residual Soil Exceedances of PAH Distribution & DRO in Soil 4 to 8 Feet*
Figure 2, *Kaukauna Utilities Telulah Canal Investigation, Sediment Sample Locations,* by RMT

Copy: M. Geall, RiverHeath LLC
J. Feldt, Kaukauna Utilities
K. Harkness, City of Appleton
B. Phelps, DNR - Madison, DG/5
J. Brand, DNR - Green Bay
J. Borski, DNR - Oshkosh

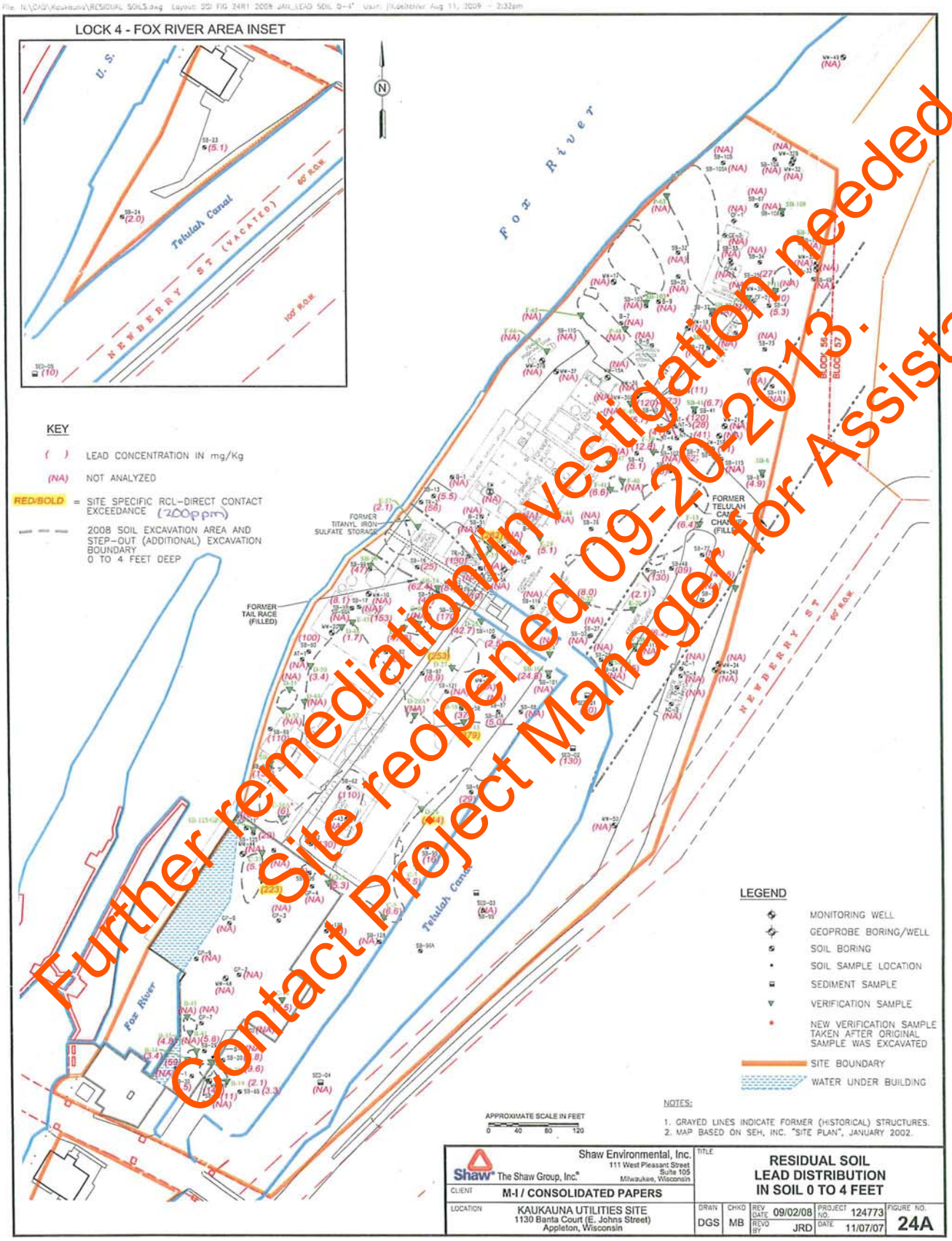
Further remediation investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



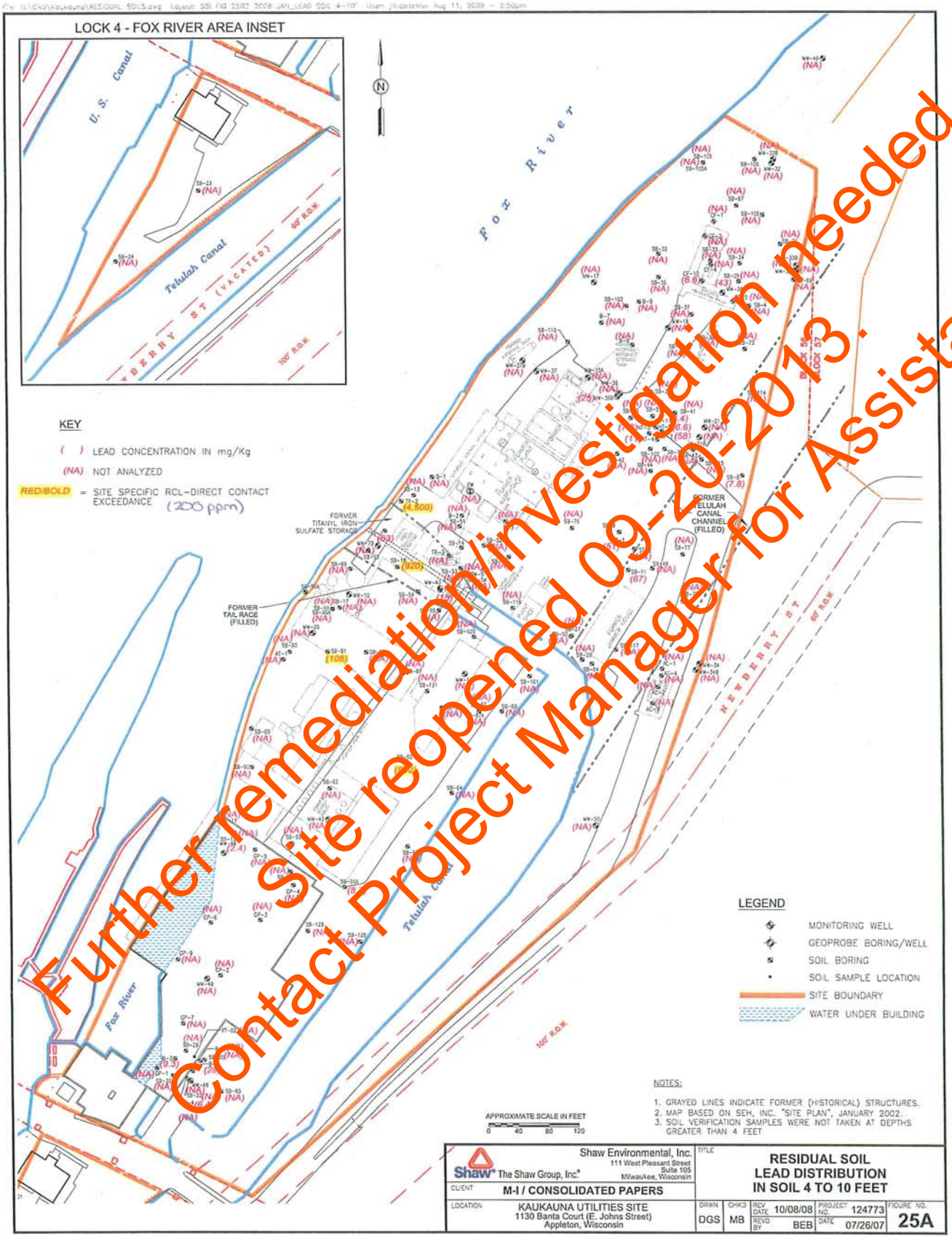
Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



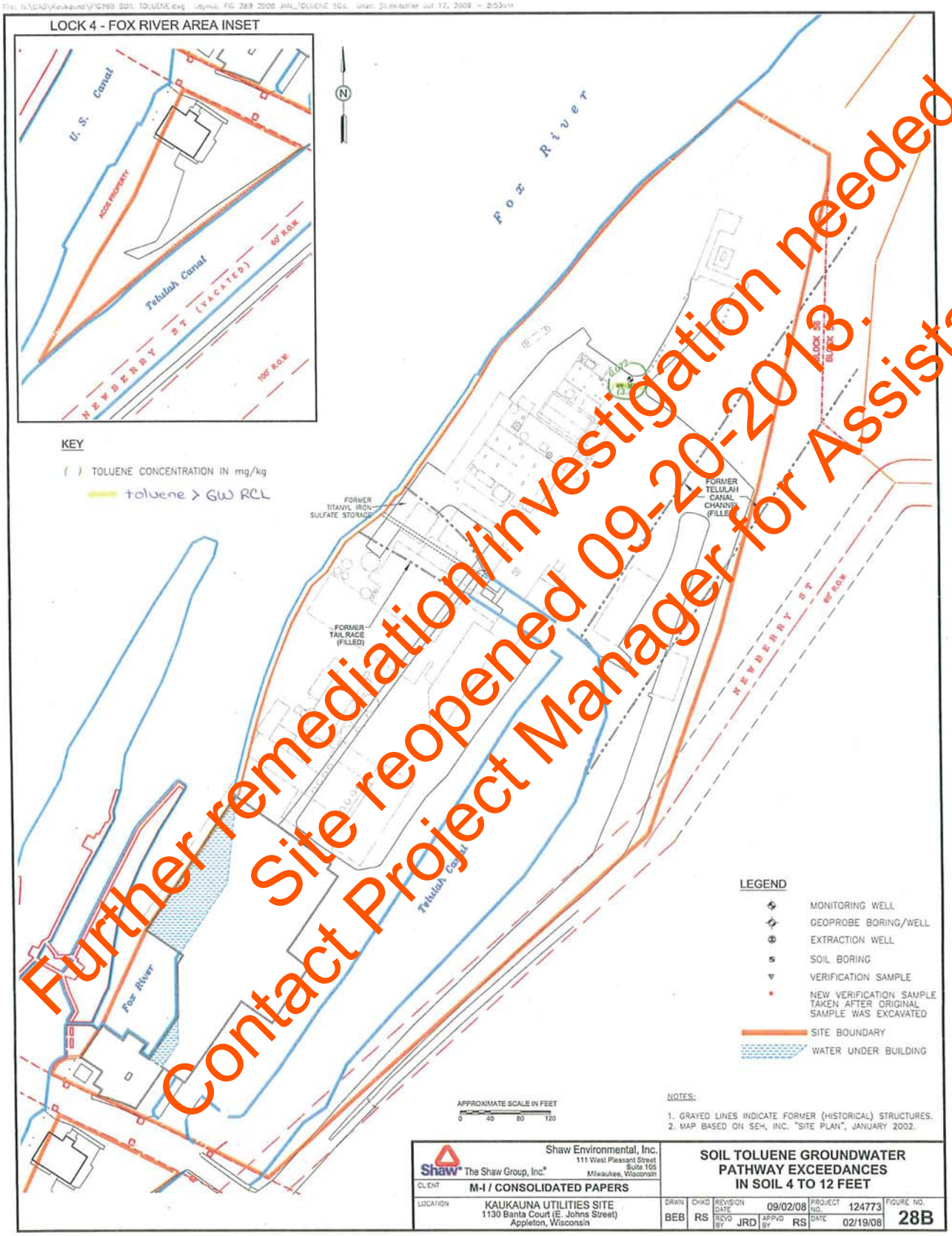
Further remediation investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



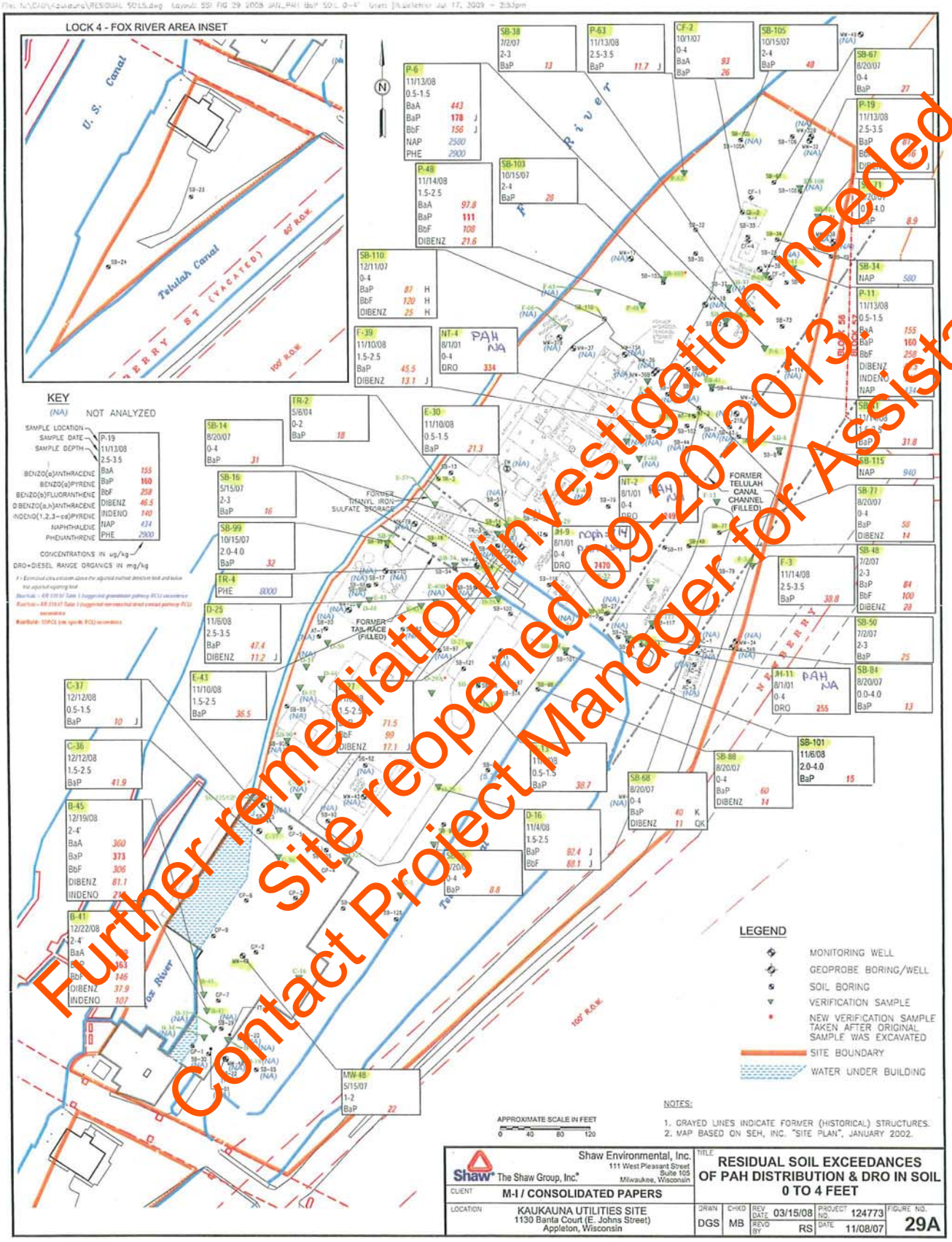
Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

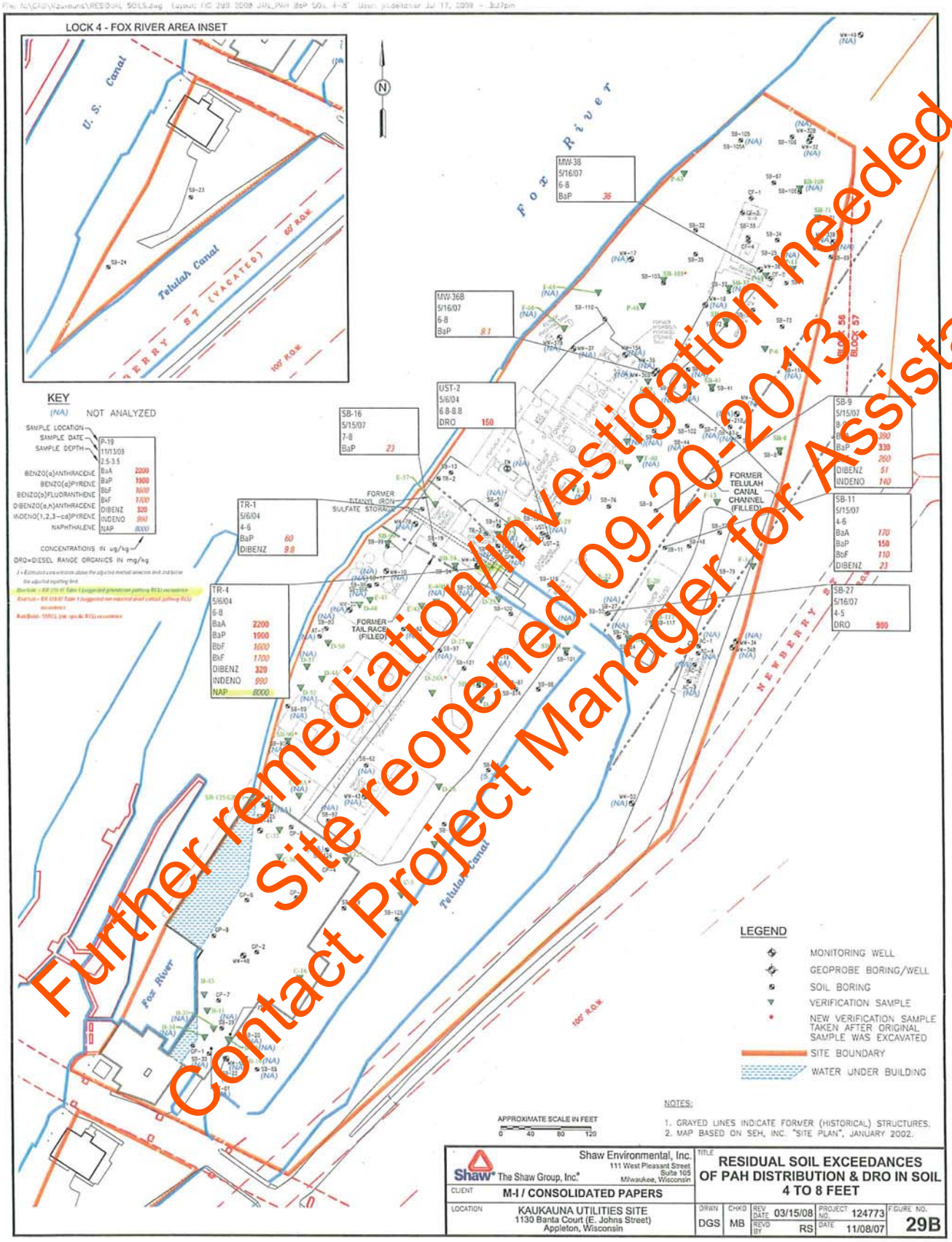


Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



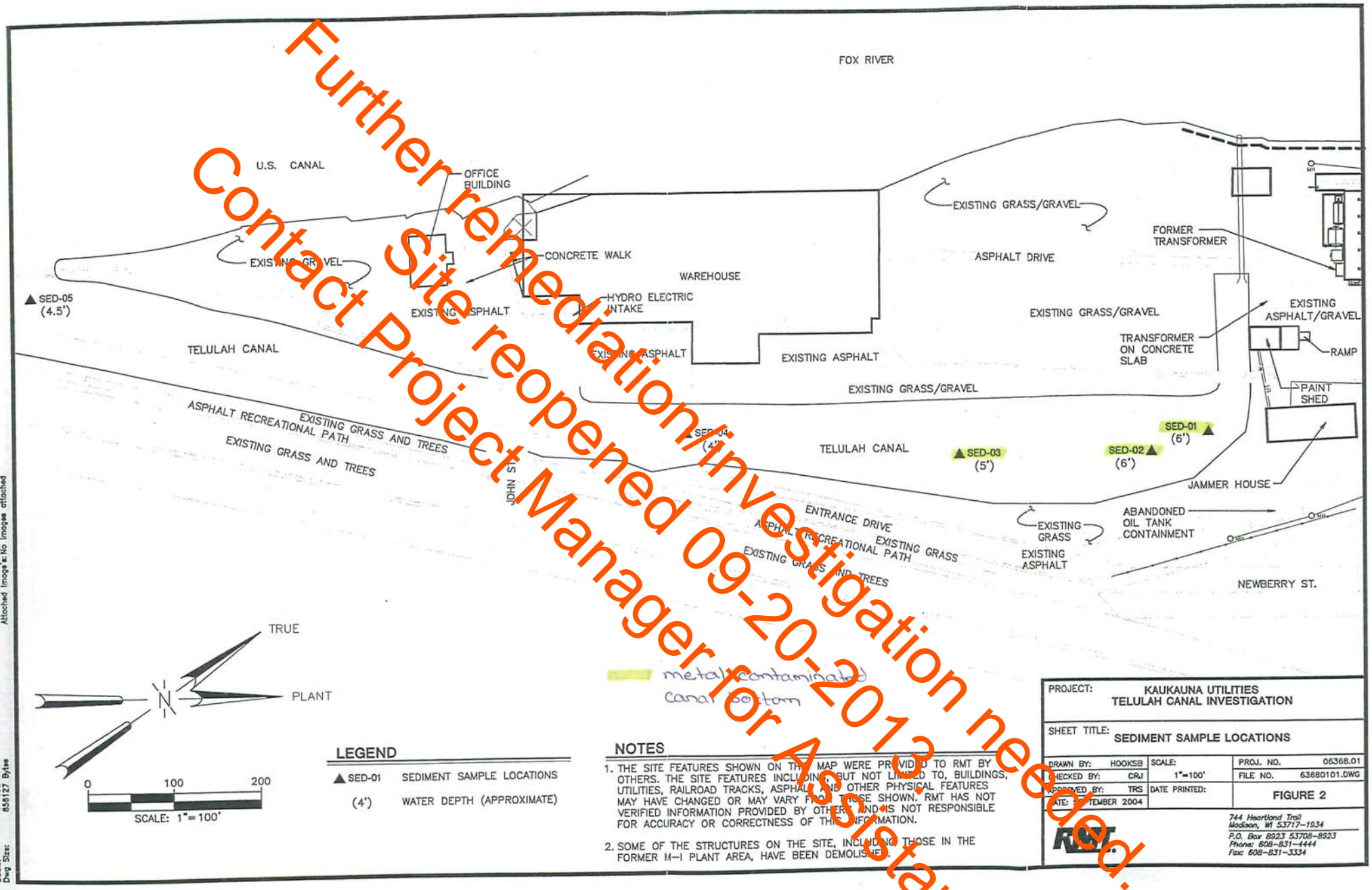
Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

remaining unsat soil > DC RCL @ 0-4' OR > GW RCL



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Further remediation/investigation needed.
Site reopened 09-20-2012.
Contact Project Manager for Assistance.



ATTACHMENT D
Closure Letter
M-I, LLC VPLE

See Attached September 1, 2009 Case Closure Letter, "M-I, LLC"

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 East County Road Y, STE. 700
Oshkosh, WI 54901-9731
TELEPHONE 920-424-3050
FAX 920-424-4404

September 1, 2009

JIM DROUGHT
SHAW ENVIRONMENTAL & INFRASTRUCTURE INC
111 W PLEASANT ST STE 105
MILWAUKEE WI 53212-3939

SUBJECT: Final Case Closure with Continuing Obligations
WDNR Site Name: M-I, LLC, 1130 Banta Court (formerly John St.), Appleton, WI
WDNR BRRTS Activity #: 02-45-181585

Dear Mr. Drought:

On August 14, 2009, the Northeast Region Closure Committee reviewed the above referenced case at 1130 Banta Court in Appleton, Wisconsin ("the Property") for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases.

Based on the correspondence and data provided, it appears that this case meets the closure requirements in ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time; however, current and future property owners must comply with certain continuing obligations as explained in this letter.

GIS Registry

This site will be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- Groundwater contamination is present above Chapter NR 140 enforcement standards

This letter and information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at http://dnr.wi.gov/org/aw/rr/gis/index.htm. If the property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4)(w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line http://dnr.wi.gov/org/water/dwg/3300254.pdf or at the web address listed above for the GIS Registry.

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Closure Conditions

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which the current property owner and any subsequent property owners must adhere. You must pass on the information about these continuing obligations to the next property owner or owners. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. The Department intends to conduct inspections in the future to ensure that the conditions included in this letter are met.

Residual Soil Contamination

Residual soil contamination remains throughout the Property as indicated on the attached Figures 33, 34, 35 and 36 (post-excavation residual chromium and sulfate distributions in soil from zero to four feet below ground surface and four feet to bedrock, respectively) and in the information submitted to the Department of Natural Resources. If soil in the specific locations described above is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Residual Groundwater Contamination

Groundwater impacted by chromium and sulfate contamination (and color) greater than enforcement standards set forth in ss. NR 140.10 and NR 140.20, Wis. Adm. Code, is present on this contaminated property and sulfate greater than the enforcement standard is present off this contaminated property. Off-property owners have been notified of the presence of groundwater contamination. For more detailed information regarding the locations where groundwater samples have been collected (i.e., monitoring well locations) and the associated contaminant concentrations, refer to the Remediation and Redevelopment Program's GIS Registry at the RR Sites Map page at http://dnr.wi.gov/org/aw/rr/gis/index.htm.

Dewatering Permits

The Department's Watershed Management Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

Based on the concentrations of contaminants remaining in groundwater at this location, it appears likely that dewatering activities would require a permit from the Watershed Management Program. If you or any other person plan to conduct such activities, you or that

Further remediation/investigation needed. Site reopened 09-20-2013. Contact Project Manager for Assistance.

person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at http://www.dnr.state.wi.us/org/water/wm/ww/

Development at Historic Fill Site or Licensed Landfill Exemption

On May 12, 2008, the Department issued a " Conditional Case-by-Case Grant of Exemption for the Development of a Property Where Solid Waste has been Disposed, 1130 Banta Court, Appleton, WI" (the "Exemption") to Shaw Environmental, Inc. regarding the proposed remediation and redevelopment of the Property. A copy of the Exemption can be obtained in the case file in Oshkosh.

Chapter NR 140, Wis. Adm. Code Exemption

On September 9, 2008, the Department issued a "NR 140.28 Exemption for Sulfate in Groundwater" that allowed for submittal of a request for closure under ch. NR 726, Wis. Adm. Code. In that letter, the Department granted an exemption to the enforcement standard for sulfate at the monitoring points listed. A copy of the exemption is attached.

Chapter 30 Permit Requirements

The Department's Water Division issued a Chapter 30 permit on October 3, 2008 to Tanesay Development, LLC / RiverHeath, LLC, ("RiverHeath") allowing for the abandonment of the Telulah Canal, creation of the Telulah Pond and construction of the mixed-use neighborhood with detailed conditions. Permit items #36 - 41 include the requirement for on-going analysis of groundwater from monitoring wells MW-17, MW-32, MW-33 and MW-49 and submittal of documentation to the Department. In a letter dated May 10, 2009, RiverHeath accepted responsibility for the monitoring wells listed above. The locations of the wells are shown on the attached Figure 35A, Sulfate Distribution in Water Table Wells. A copy of the Chapter 30 permit can be obtained in the case file in Oshkosh or from the Water Management Specialist in Green Bay.

Filing of Former Telulah Canal

As of the date of this letter, the Department understands that RiverHeath, LLC is working with the Waste and Materials Management ("Waste") Program for a low hazardous waste exemption / approval ("the Approval") to excavate contaminated soils from the northern portion of the Property, and dispose of the soils on-site in the former Telulah Canal, dewatered in 2008. In July 2009, Oscar J. Boldt Construction ("Boldt") the developer for RiverHeath, LLC, placed an 18-inch compacted concrete cap over the dewatered canal bottom (approximately 11,000 tons of crushed concrete and clean demolition materials) to eliminate the direct contact concern with the impacted canal bottom, created by the dewatering of the Telulah Canal. According to the document, *RiverHeath Canal Fill Recommendations*, dated April 16, 2009 from River Valley Testing Corp. and addressed to Boldt, approximately nine feet of material (contaminated soils) are planned to be placed above the concrete cap followed by a four foot layer of clay and road sub-base or topsoil to final grade. The final details of placement of the contaminated soil and additional cover will be determined by the Waste Program. A copy of the Recommendations can be obtained in the case file in Oshkosh. Once issued, a copy of the Approval can be obtained from the Waste Program in Green Bay.

Further remediation/investigation needed. Site reopened 09-20-2013. Contact Project Manager for Assistance.

Post-Closure Notification Requirements

In accordance with ss, 292.12 and 292.13, Wis. Stats., the property owner must notify the Department before making changes that affect or relate to the conditions of closure in this letter. For this case, examples of changed conditions requiring prior notification include, but are not limited to:

- Abandonment of monitoring wells, MW-17, 32, 33 (located on-site) and MW-49 (located off-site).

Please send written notifications in accordance with the above requirements to the Oshkosh DNR Service Center at 625 East County Road Y, Suite 700, Oshkosh, WI 54901-9731, to the attention of Jennifer Borski or "Remediation and Redevelopment Program, Project Manager for Outagamie County".

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Jennifer Borski at (920) 424-7887.

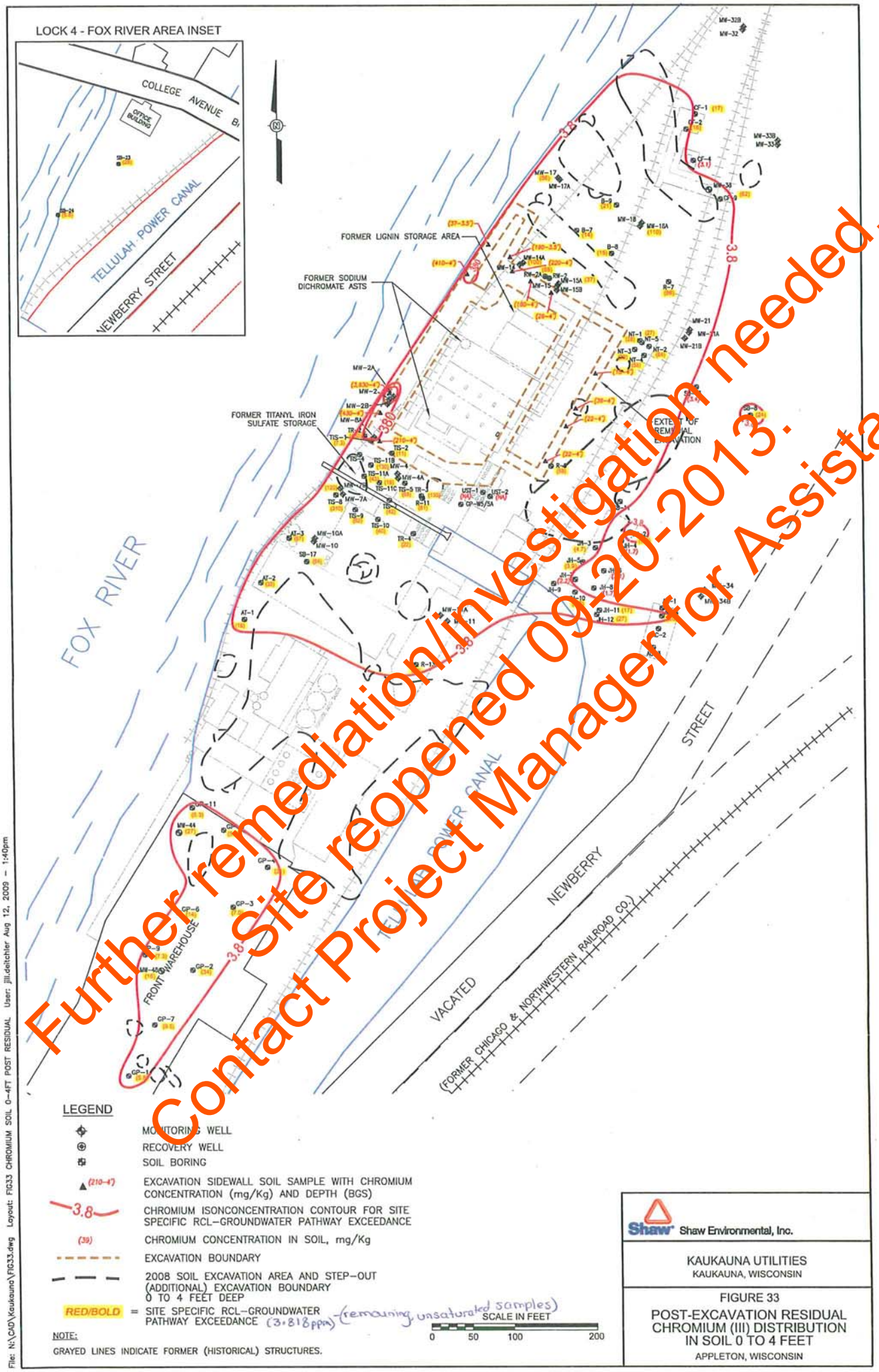
Sincerely,

Bruce Urben, Team Supervisor
Northeast Remediation & Redevelopment Program

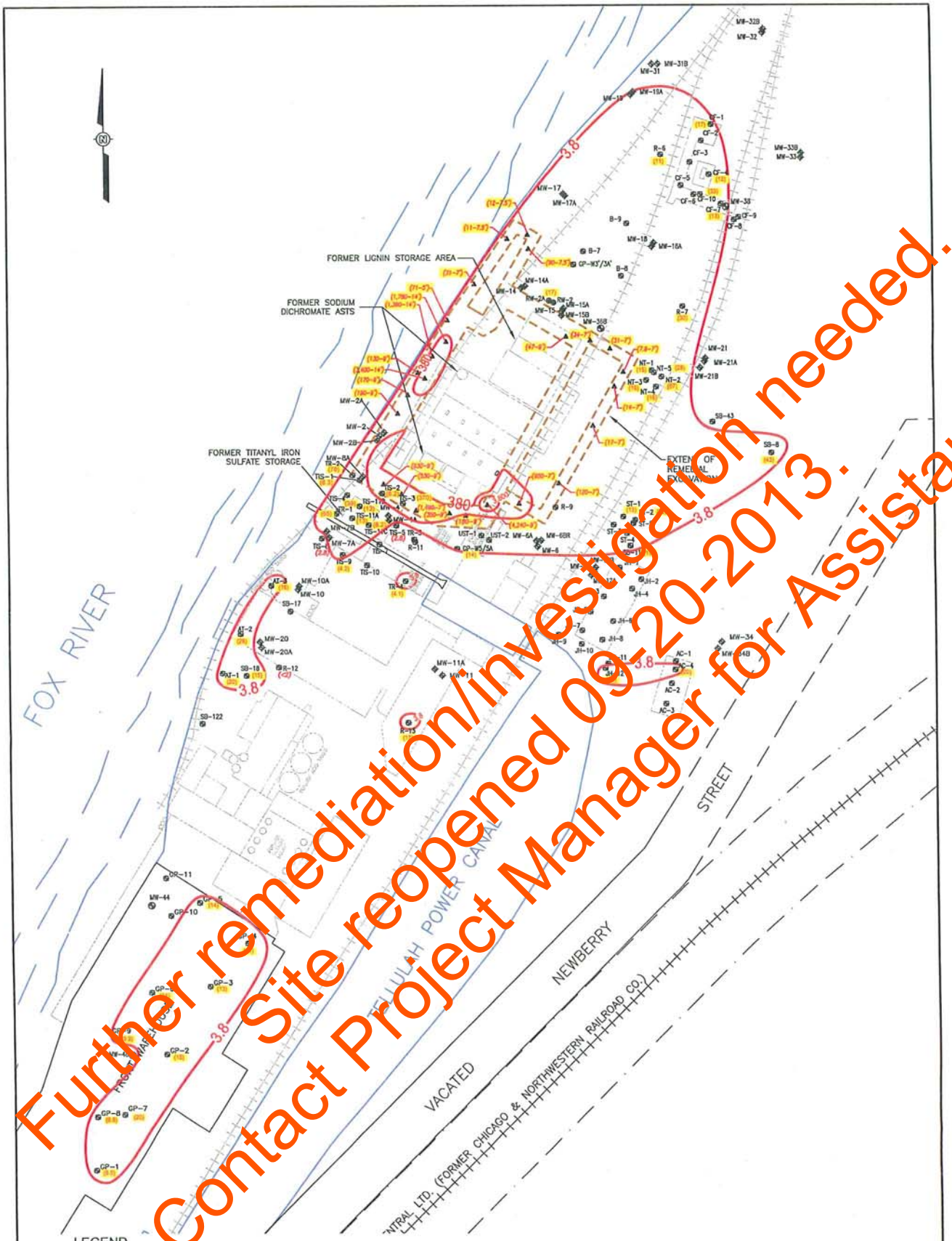
Attachments:
Figure 33, Post-Excavation Residual Chromium (III) Distribution in Soil 0 to 4 Feet
Figure 34, Post-Excavation Residual Chromium (III) Distribution in Soil 0 to Bedrock
Figure 35, Post-Excavation Residual Sulfate Distribution in Soil 0 to 4 Feet
Figure 36, Post-Excavation Residual Sulfate Distribution in Soil 0 to 12 Feet
NR 140.28 Exemption for Sulfate in Groundwater, dated September 9, 2008
Figure 35A, Sulfate Distribution in Water Table Wells

Copy: M. Geall, RiverHealth LLC
I. Feldt, Kaukauna Utilities
K. Harkness, City of Appleton
B. Phelps, DNR – Madison, DG/5
J. Brand, DNR – Green Bay
J. Borski, DNR – Oshkosh

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

LEGEND

- MONITORING WELL
- RECOVERY WELL
- SOIL BORING
- (210-4') EXCAVATION SIDEWALL SOIL SAMPLE WITH CHROMIUM CONCENTRATION (mg/Kg) AND DEPTH (BGS)
- 3.8 CHROMIUM ISONCONCENTRATION CONTOUR FOR SITE SPECIFIC RCL–GROUNDWATER PATHWAY EXCEEDANCE
- (39) CHROMIUM CONCENTRATION IN SOIL, mg/Kg
- EXCAVATION BOUNDARY
- 2008 SOIL EXCAVATION AREA 0 TO 4 FEET DEEP
- RED/BOLD = SITE SPECIFIC RCL–GROUNDWATER PATHWAY EXCEEDANCE (3.818 ppm) (remaining, unsaturated samples)

NOTE:
GRAYED LINES INDICATE FORMER (HISTORICAL) STRUCTURES.

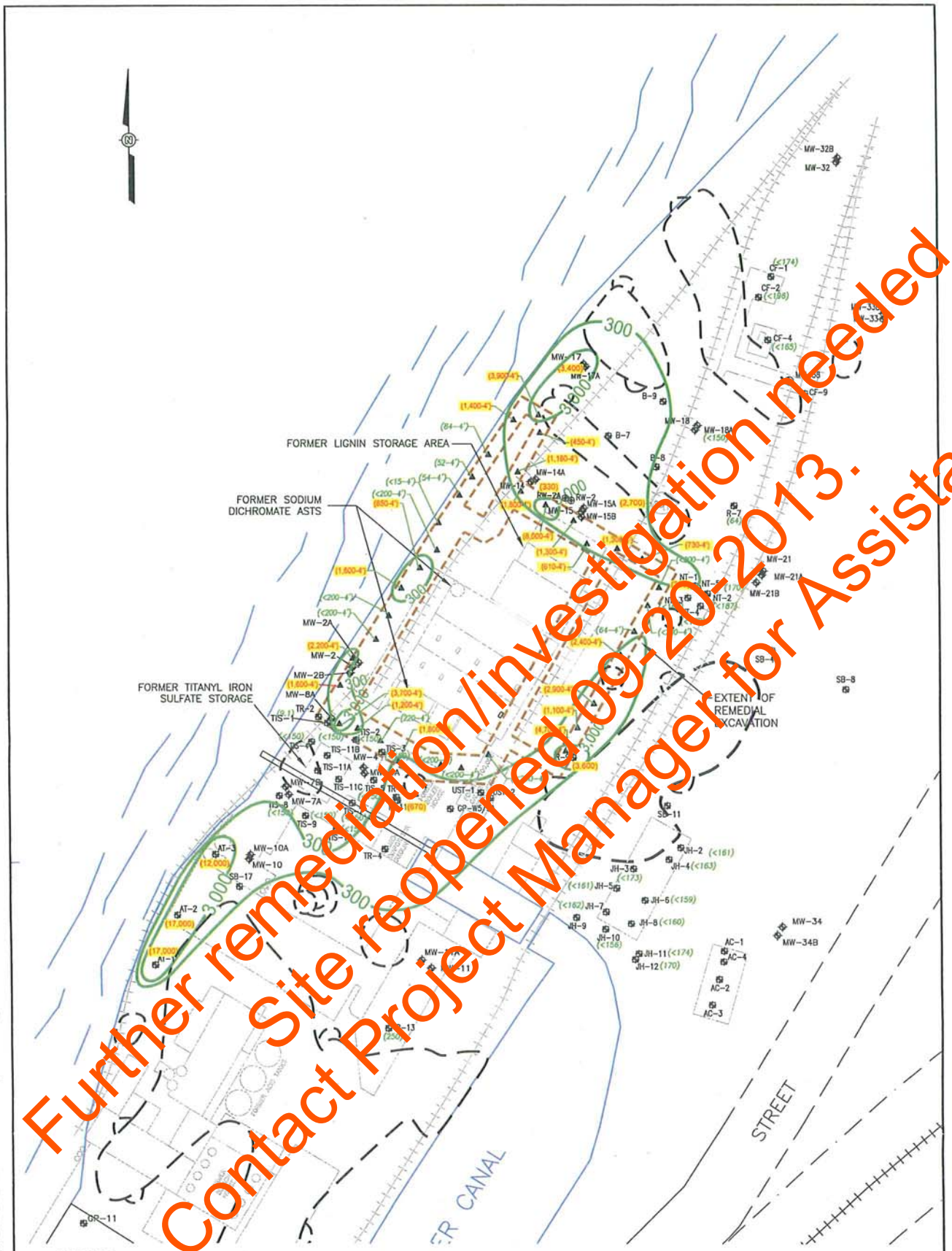
SCALE IN FEET
0 50 100 150

Shaw Environmental, Inc.

KAUKAUNA UTILITIES
KAUKAUNA, WISCONSIN

FIGURE 34
POST-EXCAVATION RESIDUAL CHROMIUM (III) DISTRIBUTION IN SOIL 4 TO BEDROCK
APPLETON, WISCONSIN

File: N:\CAD\Kaukauna\FIG34.dwg Layout: FIG34 CHROMIUM SOIL 4FT-12FT POST RESIDUAL User: jill.deitchler Aug 14, 2009 – 9:09am



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

LEGEND

- MONITORING WELL
- SOIL BORING
- RECOVERY WELL
- 300 — SULFATE ISONCONCENTRATION CONTOUR
- (430) SULFATE CONCENTRATION IN SOIL (mg/Kg)
- EXCAVATION BOUNDARY
- 2008 SOIL EXCAVATION AREA 0 TO 4 FEET DEEP

RED/BOLD = SITE SPECIFIC RCL–GROUNDWATER PATHWAY EXCEEDANCE (300ppm) (remaining, unsaturated samples)

NOTE:
GRAYED LINES INDICATE FORMER (HISTORICAL) STRUCTURES.

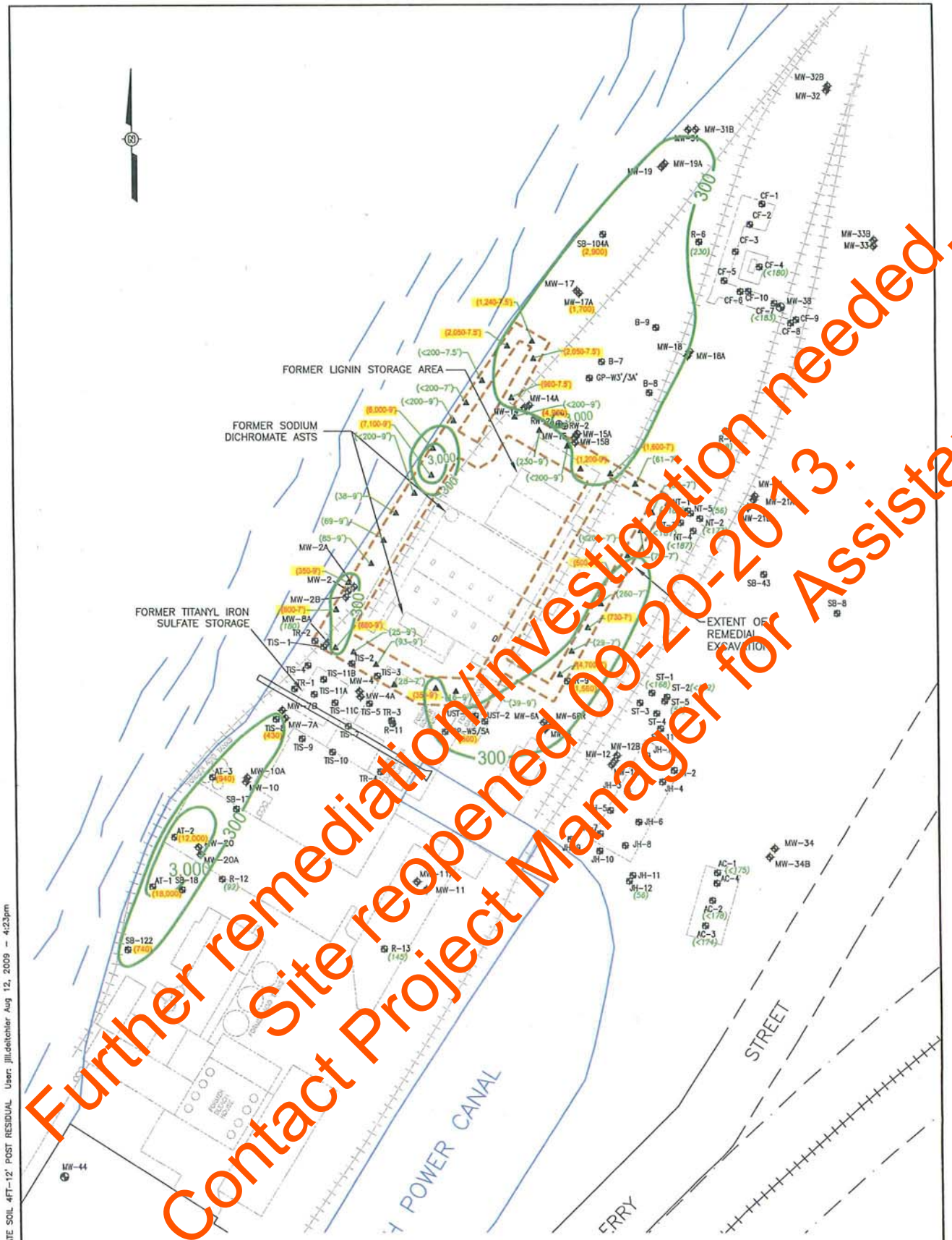
SCALE IN FEET
0 40 80 160

Shaw Environmental, Inc.

KAUKAUNA UTILITIES
KAUKAUNA, WISCONSIN

FIGURE 35
POST-EXCAVATION RESIDUAL SULFATE DISTRIBUTION IN SOIL 0 TO 4 FEET
APPLETON, WISCONSIN

File: N:\CAD\Kaukauna\FIG35.dwg Layout: FIG35 SULFATE SOIL 0-4FT POST RESIDUAL User: jill.deitchler Aug 12, 2009 - 5:21pm



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

LEGEND

- MONITORING WELL
- SOIL BORING
- 300 — SULFATE ISOCONCENTRATION CONTOUR
- (286) — SULFATE CONCENTRATION IN SOIL (mg/Kg)
- EXCAVATION BOUNDARY
- RED/BOLD = SITE SPECIFIC RCL–GROUNDWATER PATHWAY EXCEEDANCE (300ppm)

NOTE:
GRAYED LINES INDICATE FORMER (HISTORICAL) STRUCTURES.

remaining, unsaturated samples

SCALE IN FEET
0 40 80 160

Shaw Environmental, Inc.

KAUKAUNA UTILITIES
KAUKAUNA, WISCONSIN

FIGURE 36
POST-EXCAVATION RESIDUAL SULFATE DISTRIBUTION IN SOIL 4 TO 12 FEET
APPLETON, WISCONSIN

File: N:\CAD\Kaukauna\FIG36.dwg Layout: FIG36 SULFATE SOIL 4FT-12' POST RESIDUAL User: jill.deitchler Aug 12, 2009 – 4:23pm

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 East County Road Y, STE. 700
Oshkosh, WI 54901-9731
TELEPHONE 920-424-3050
FAX 920-424-4404

September 9, 2008

Mr. David McMurtry
Shaw Environmental Liability Solutions, LLC
4005 Port Chicago Highway
Concord, CA 94520-1122

SUBJECT: NR 140.28 Exemption for Sulfate in Groundwater at
WDNR Site Name: M-I, LLC
1130 Banta Ct (formerly John St), Appleton, WI
WDNR ERP #: 02-45-181585
WDNR VPLE #: 06-45-548615

Dear Mr. McMurtry:

On June 4, 2008, the Department received the *Wisconsin Administrative Code Chapter NR 140.28 Exemption Request* (Exemption Request) from Shaw Environmental, Inc. (Shaw) for sulfate in groundwater at the property at 1130 Banta Court (formerly East John Street) in Appleton, Wisconsin (the Property).

Recent groundwater monitoring data at this site indicates exceedances of the ch. NR 140, Wis. Adm. Code, enforcement standard for sulfate at MW-3AR, MW-4, MW-4A, MW-5, MW-7A, MW-9R, MW-9AR, MW-10, MW-10A, MW-11, MW-11A, MW-12, MW-12A, MW-13AR, MW-17A, MW-18, MW-19, MW-20, MW-21, MW-31, MW-32, MW-37, MW-41, MW-42, MW-50, Extraction Well, GPW-3R, AT-1 and TR-2 and exceedances of the preventive action limit for sulfate at MW-2AR, MW-6, MW-13R, MW-21A, MW-23, MW-36, MW-49 (off-site) and GPW-5. The Department may grant an exemption for a substance of public welfare concern, or nitrate, pursuant to s. NR 140.28(2)(a), Wis. Adm. Code, if actions have been taken to achieve the lowest possible concentration for that substance which is technically and economically feasible and the existing or anticipated increase in the concentration of that substance does not present a threat to public health or welfare.

Based on the information provided, the Department believes that the above criteria have been or will be met because of the interim action excavation in June 2003, the long-term monitoring of sulfate from 1998 to 2008 and the discussion presented in the Exemption Request, including the remedial options analysis (Sec. 7.1.2 and Table S-6). Therefore, pursuant to s. NR 140.28(2)(a), Wis. Adm. Code, an exemption to the enforcement standard is granted for sulfate at the monitoring points listed above. This letter serves as your exemption. With this exemption, you may cease investigation of the sulfate in soil and groundwater and submit a request for closure under ch. NR 726, Wis. Adm. Code for the M-I LLC environmental repair case, WDNR BRRTS #02-45-181585.

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Please note that significant sulfate contamination remains in soil and groundwater throughout the property. Remaining soil and groundwater contamination will be addressed at the time of closure, including entry on the Remediation and Redevelopment Program's GIS Registry. Based on the known soil and groundwater contamination and behavior of the sulfate plume, additional exemptions under s. NR 140.28(1)(a), Wis. Adm. Code may be required to alter the site.

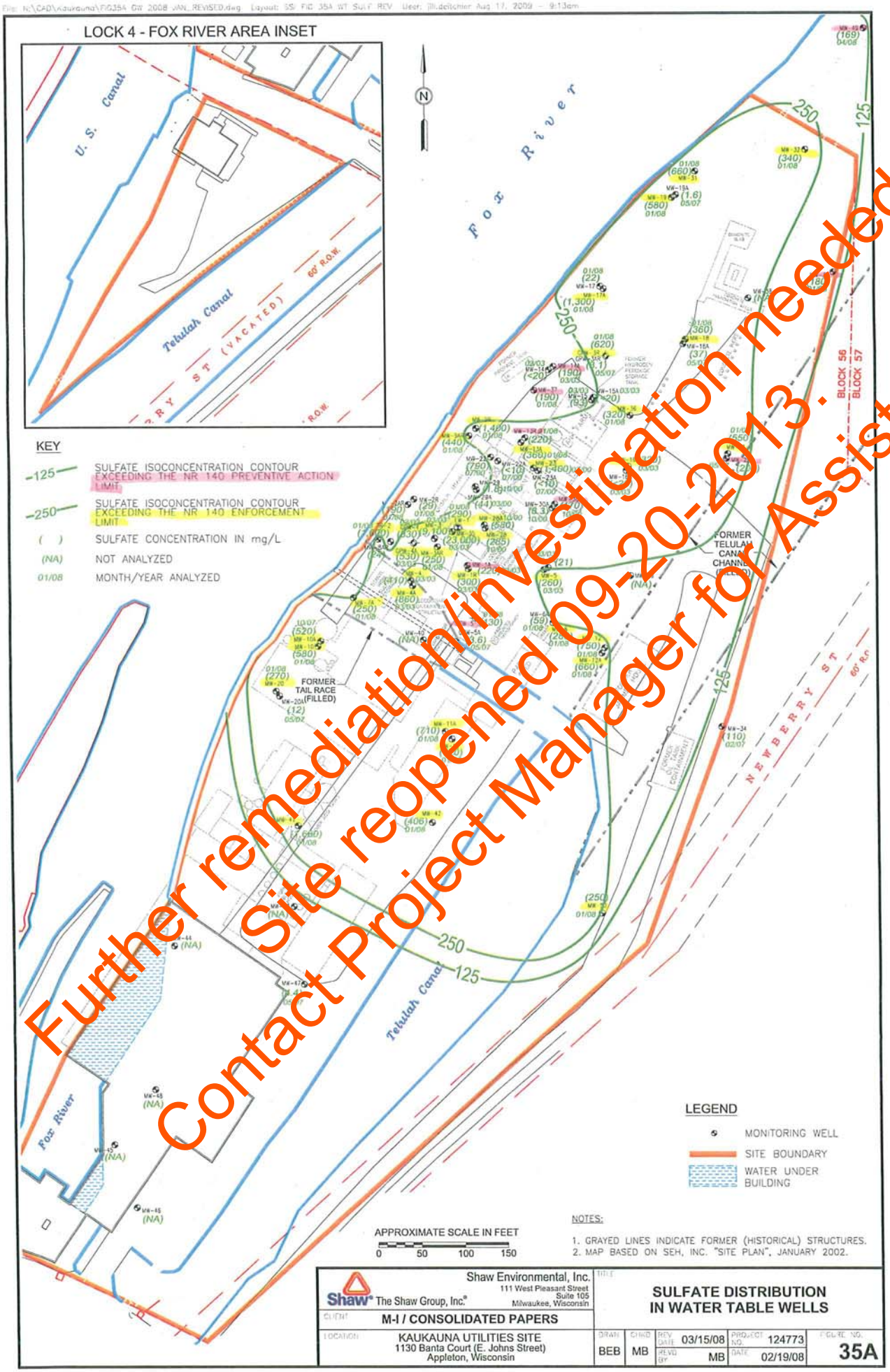
The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this exemption, please contact Jennifer Borski in Oshkosh at (920) 424-7887.

Sincerely,

Bruce Urben
Northeast Remediation & Redevelopment Team Supervisor

Copy: J. Drought, Shaw
M. Bergeon, Shaw
J. Feldt, Kaukauna Utilities
R. Heinemann, Boardman Law
A. Leuterman, M-I, LLC
J. Borski, DNR, Oshkosh
B. Phelps, DNR, Madison - DG/5

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

ATTACHMENT E
Closure Letter
M-I, LLC VPLE

See Attached February 19, 2009 Case Closure Letter

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
375 City Center, Suite I
Oshkosh, Wisconsin 54901-1805
TTY: Contact Through Relay
Fax: (920) 424-0217
Jim Doyle, Governor
Richard J. Leinenkugel, Secretary

commerce.wi.gov
Wisconsin
Department of Commerce

February 19, 2009

Mr. Mark Geall
RiverHeath LLC
619 South Olde Oneida Street, STE D
Appleton, WI 54911

RE: **Final Closure**

Commerce # 54915-2756-30-A DNR BRRTS # 02-45-272992
M-I LLC, 1130 E. John Street, Appleton

Dear Mr. Geall:

The Wisconsin Department of Commerce (Commerce) has received the item required as a condition for closure of the site referenced above. This site is now listed as "closed" on the Commerce database and will be included on the Department of Natural Resources (DNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual soil contamination. If you intend to construct t a potable well on this property, you must get prior DNR approval.

All current and future owners and occupants of the property need to be aware that excavation of contaminated soil may pose a hazard. The property owner at the time of excavation must determine if the excavated soil is contaminated. If contamination is present, the property owner must ensure that disposal is in compliance with applicable State regulations and standards.

It is in your best interest to keep all documentation related to environmental activities at your site.

Thank you for your efforts to bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (920) 424-0046.

Sincerely,

Robert H. Klauk
Senior Hydrogeologist
Site Review Section

cc: Charles J. Zimney - Shaw Environmental, Inc.

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

ATTACHMENT F
Exemption for Development of a Historic Fill Site
M-I, LLC VPLE

See attached September 9, 2008 Conditional Grant of Exemption

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 East County Road Y, STE. 700
Oshkosh, WI 54901-9731
TELEPHONE 920-424-3050
FAX 920-424-4404

September 9, 2008

Mr. David McMurtry
Shaw Environmental Liability Solutions, LLC
4005 Port Chicago Highway
Concord, CA 94520-1122

SUBJECT: NR 140.28 Exemption for Sulfate in Groundwater at
WDNR Site Name: M-I, LLC
1130 Banta Ct (formerly John St), Appleton, WI
WDNR ERP #: 02-45-181585
WDNR VPLE #: 06-45-548615

Dear Mr. McMurtry:

On June 4, 2008, the Department received the *Wisconsin Administrative Code Chapter NR 140.28 Exemption Request* (Exemption Request) from Shaw Environmental, Inc. (Shaw) for sulfate in groundwater at the property at 1130 Banta Court (formerly East John Street) in Appleton, Wisconsin (the Property).

Recent groundwater monitoring data at this site indicates exceedances of the ch. NR 140, Wis. Adm. Code, enforcement standard for sulfate at MW-3AR, MW-4, MW-4A, MW-5, MW-7A, MW-9R, MW-9AR, MW-10, MW-10A, MW-11, MW-11A, MW-12, MW-12A, MW-13AR, MW-17A, MW-18, MW-19, MW-20, MW-21, MW-31, MW-32, MW-37, MW-41, MW-42, MW-50, Extraction Well, GPW-3R, AT-1 and TR-2 and exceedances of the preventive action limit for sulfate at MW-2AR, MW-6, MW-13R, MW-21A, MW-23, MW-36, MW-49 (off-site) and GPW-5. The Department may grant an exemption for a substance of public welfare concern, or nitrate, pursuant to s. NR 140.28(2)(a), Wis. Adm. Code, if actions have been taken to achieve the lowest possible concentration for that substance which is technically and economically feasible and the existing or anticipated increase in the concentration of that substance does not present a threat to public health or welfare.

Based on the information provided, the Department believes that the above criteria have been or will be met because of the interim action excavation in June 2003, the long-term monitoring of sulfate from 1998 to 2008 and the discussion presented in the Exemption Request, including the remedial options analysis (Sec. 7.1.2 and Table S-6). Therefore, pursuant to s. NR 140.28(2)(a), Wis. Adm. Code, an exemption to the enforcement standard is granted for sulfate at the monitoring points listed above. This letter serves as your exemption. With this exemption, you may cease investigation of the sulfate in soil and groundwater and submit a request for closure under ch. NR 726, Wis. Adm. Code for the M-I LLC environmental repair case, WDNR BRRTS #02-45-181585.

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Please note that significant sulfate contamination remains in soil and groundwater throughout the property. Remaining soil and groundwater contamination will be addressed at the time of closure, including entry on the Remediation and Redevelopment Program's GIS Registry. Based on the known soil and groundwater contamination and behavior of the sulfate plume, additional exemptions under s. NR 140.28(1)(a), Wis. Adm. Code may be required to alter the site.

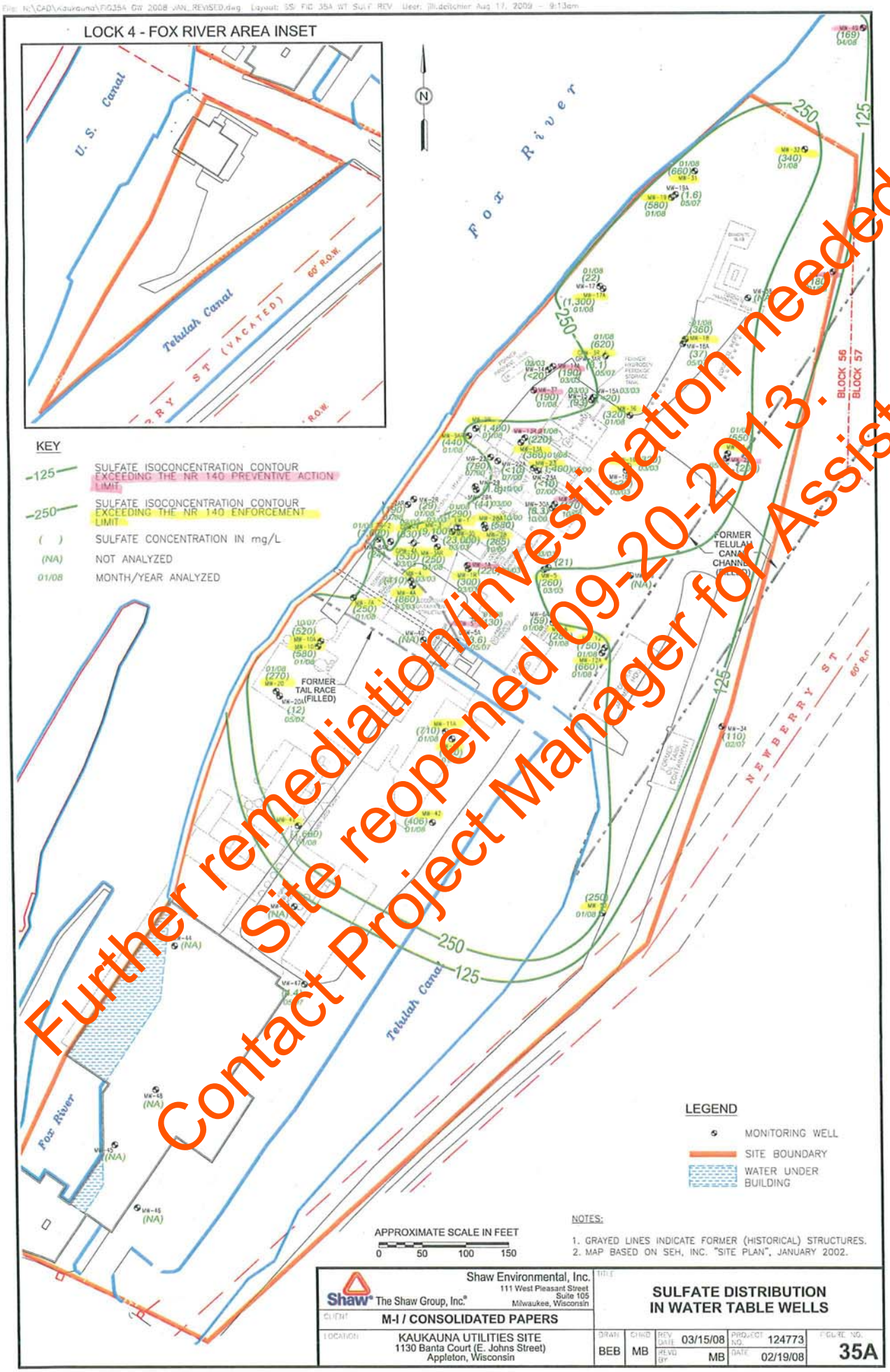
The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this exemption, please contact Jennifer Borski in Oshkosh at (920) 424-7887.

Sincerely,

Bruce Urben
Northeast Remediation & Redevelopment Team Supervisor

Copy: J. Drought, Shaw
M. Bergeon, Shaw
J. Feldt, Kaukauna Utilities
R. Heinemann, Boardman Law
A. Leuterman, M-I, LLC
J. Borski, DNR, Oshkosh
B. Phelps, DNR, Madison - DG/5

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

LEGAL DESCRIPTION

Part of Blocks 55 and 56, Fourth Ward Plat, City of Appleton, Outagamie County, Wisconsin more fully described as follows:

Commencing at the Southwest corner of Block 58 of said Fourth Ward Plat where it intersects with the northerly line of lands owned by the Chicago and Northwestern Railroad Company; thence South 78 degrees 26 minutes 03 seconds West, 41.00 feet; thence North 16 degrees 27 minutes 39 seconds East, 116.31 feet to the point of beginning; thence along the Westerly right-of-way of Vacated Newberry Street, South 31 degrees 24 minutes 29 seconds West, 69.80 feet; thence continuing along the Westerly right-of-way of Vacated Newberry Street, South 44 degrees 27 minutes 15 seconds West, 728.65 feet; thence along the Northerly right-of-way of John Street, North 62 degrees 38 minutes 12 seconds West, 162.39 feet to a point hereafter referred to as Point "A"; thence continuing along the Northerly right-of-way of John Street, North 74 degrees 49 minutes 00 seconds West, 97.48 feet to a meander corner, being South 74 degrees 49 minutes 00 seconds East, 20 feet more or less from the waters edge of the Fox River; thence along a meander line North 31 degrees 28 minutes 32 seconds East, 1592.49 feet to a meander corner, being South 63 degrees 24 minutes 18 seconds East, 20 feet more or less from the waters edge of the Fox River; thence along the Northerly line of Block 56 of said Fourth Ward Plat, South 63 degrees 24 minutes 18 seconds East, 130.51 feet; thence South 01 degrees 33 minutes 18 seconds East, 34.56 feet; thence South 09 degrees 15 minutes 57 seconds West, 107.81 feet; thence South 03 degrees 45 minutes 57 seconds West, 286.60 feet; thence South 11 degrees 25 minutes 56 seconds West, 221.40 feet; thence South 16 degrees 27 minutes 39 seconds West, 187.71 feet to the point of beginning.

and also:

thence commencing at said Point "A"; thence South 21 degrees 16 minutes 24 seconds West, 60.34 feet to the point of beginning; thence along the Southerly right-of-way of John Street, South 62 degrees 38 minutes 12 seconds East, 61.32 feet to a meander corner, being North 62 degrees 38 minutes 12 seconds West, 24 feet more or less from the waters edge of an existing canal; thence along a meander line South 47 degrees 24 minutes 57 seconds West, 405.62 feet to a meander corner, being South 65 degrees 02 minutes 04 seconds East, 20 feet more or less from the waters edge of the Fox River; thence along a meander line North 23 degrees 43 minutes 50 seconds East, 160.04 feet to a meander corner, being South 74 degrees 49 minutes 00 seconds East, 20 feet more or less from the waters edge of the Fox River; thence along the Southerly right-of-way of John Street, South 74 degrees 49 minutes 00 seconds East, 102.89 feet to the point of beginning.

Said parcel contains 670,627 sq.ft. more or less [15.38 acres more or less], including all lands lying between the meander lines and the waters edge of the existing canal and the Fox River.

SURVEYOR'S CERTIFICATE

I, Jerome H. Kaiser, hereby certify that I have surveyed this property and this map is a true representation thereof and is, to the best of my knowledge and belief, a true and accurate representation thereof.

Dated this 17th day of July, 2003

Jerome H. Kaiser, WI Land Surveyor S-2247

WISCONSIN JEROME H. KAISER S-2247 NEENAH WI

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Shaw Environmental, Inc.
111 West Pleasant Street, Suite 105
Milwaukee, WI 53212-3939
Tel 414.291.2350
Fax: 414.291.2385

Shaw™ Shaw Environmental, Inc.

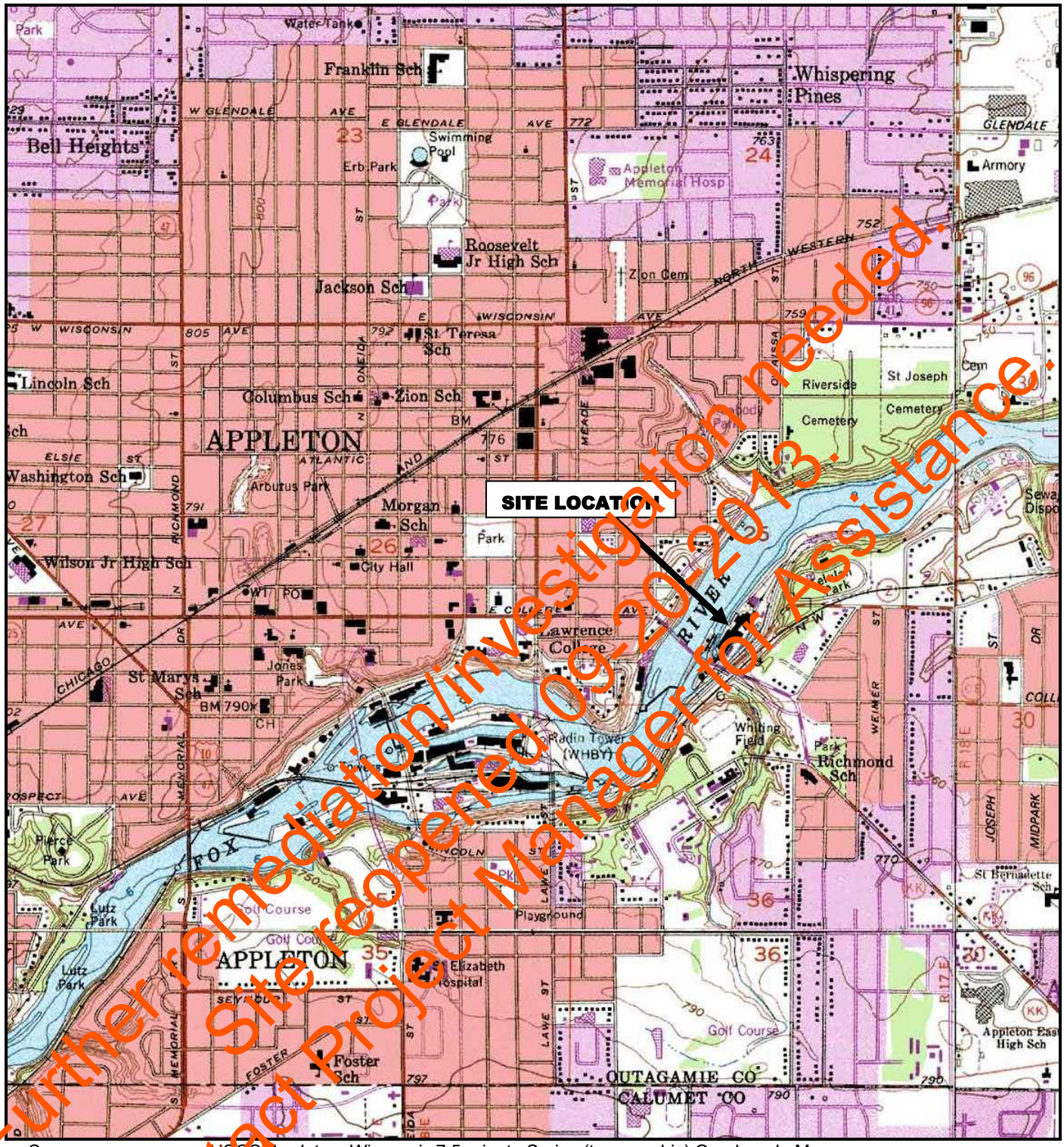
CERTIFICATION

I, Mark Geall, as representative of the owner of the RiverHeath LLC site, formerly known as the Consolidated Papers / Kaukauna Utilities property located at 1130 Banta Court (formerly East John Street) in Appleton, Wisconsin, do hereby certify that to the best of my knowledge the legal description included on the Martenson & Eisele, Inc. Plat of Survey (Part of Blocks 55 and 56, Fourth Ward Plat, City of Appleton, Outagamie County, Wisconsin) are complete and accurate.

Signature

February 5, 2009
Date

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



Further remediation/investigation needed. Site reopened 09-20-2013. Contact Project Manager for Assistance.

Source: USGS *Appleton, Wisconsin* 7.5-minute Series (topographic) Quadrangle Map (1955, photo-revised 1984)

Scale: 1:24,000

Contour Interval: 10 feet

SW ¼ of Section 25, Township 21 North, Range 17 East
044° 15' 40" North Latitude, 088° 23' 12" West Longitude

Shaw

Project No. 124773

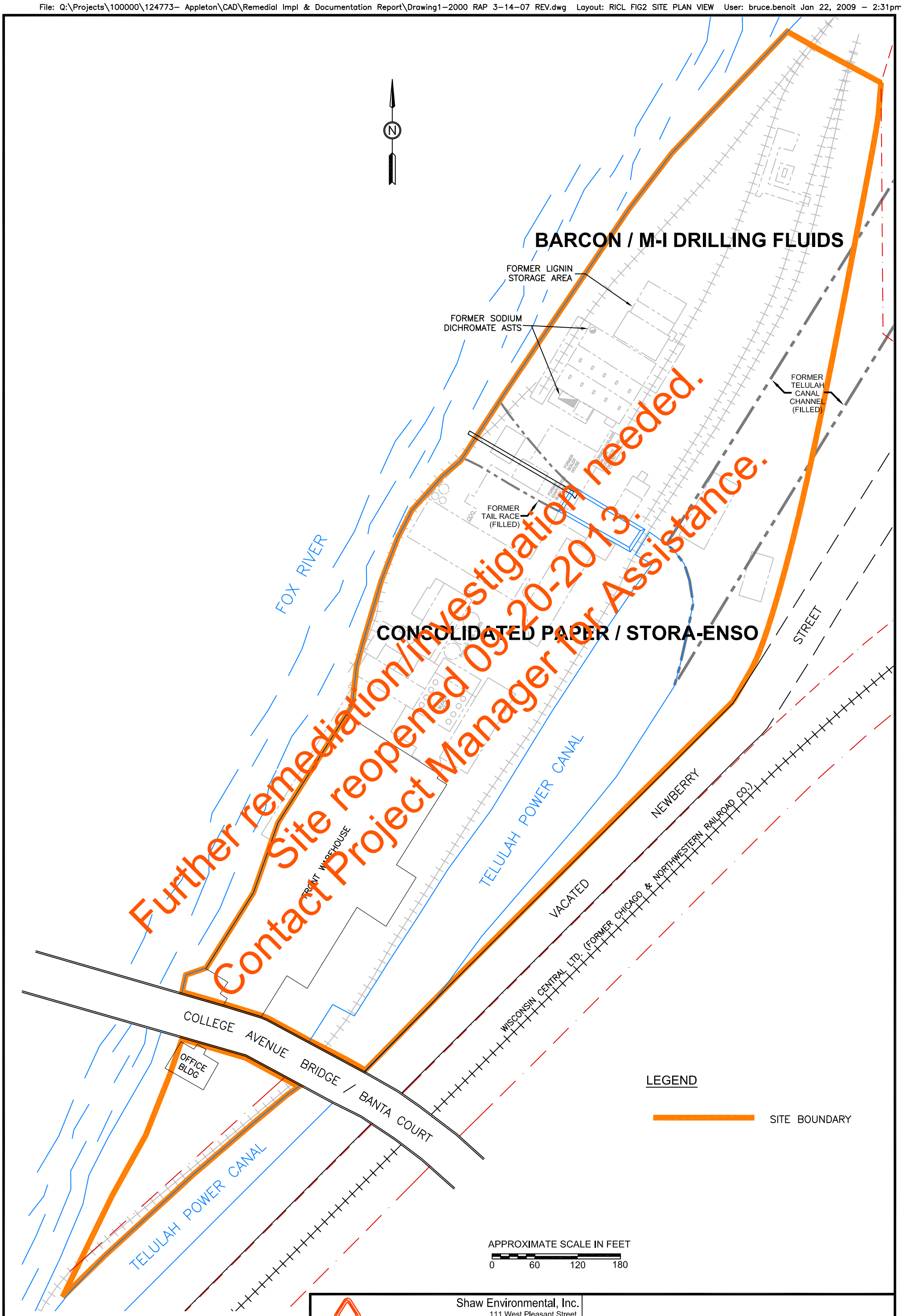
Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Figure 1
Site Location Map

1" 1/2" 0" 1"

XREF Files: IMAGE Files: 000_borings lock4-fox rv_Page_1.jpg

File: Q:\Projects\100000\124773- Appleton\CAD\Remedial Impl & Documentation Report\Drawing1-2000 RAP 3-14-07 REV.dwg Layout: RICL FIG2 SITE PLAN VIEW User: bruce.benoit Jan 22, 2009 - 2:31pm



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

NOTES:

1. GRAYED LINES INDICATE FORMER (HISTORICAL) STRUCTURES.

Shaw The Shaw Group, Inc.

Shaw Environmental, Inc.
111 West Pleasant Street
Suite 105
Milwaukee, Wisconsin

CLIENT: M-I / CONSOLIDATED PAPERS

LOCATION: KAUKAUNA UTILITIES SITE
1130 Banta Court (E. Johns Street)
Appleton, Wisconsin

SITE PLAN VIEW

DRWN	CHKD	REVISION DATE	--	PROJECT NO.	124773	FIGURE NO.
BEB	HAW	REVD BY --	APPVD BY --	DATE	01/19/09	2

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RH site plan 8-15-07.jpg
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1" 1/2" 0" 1"

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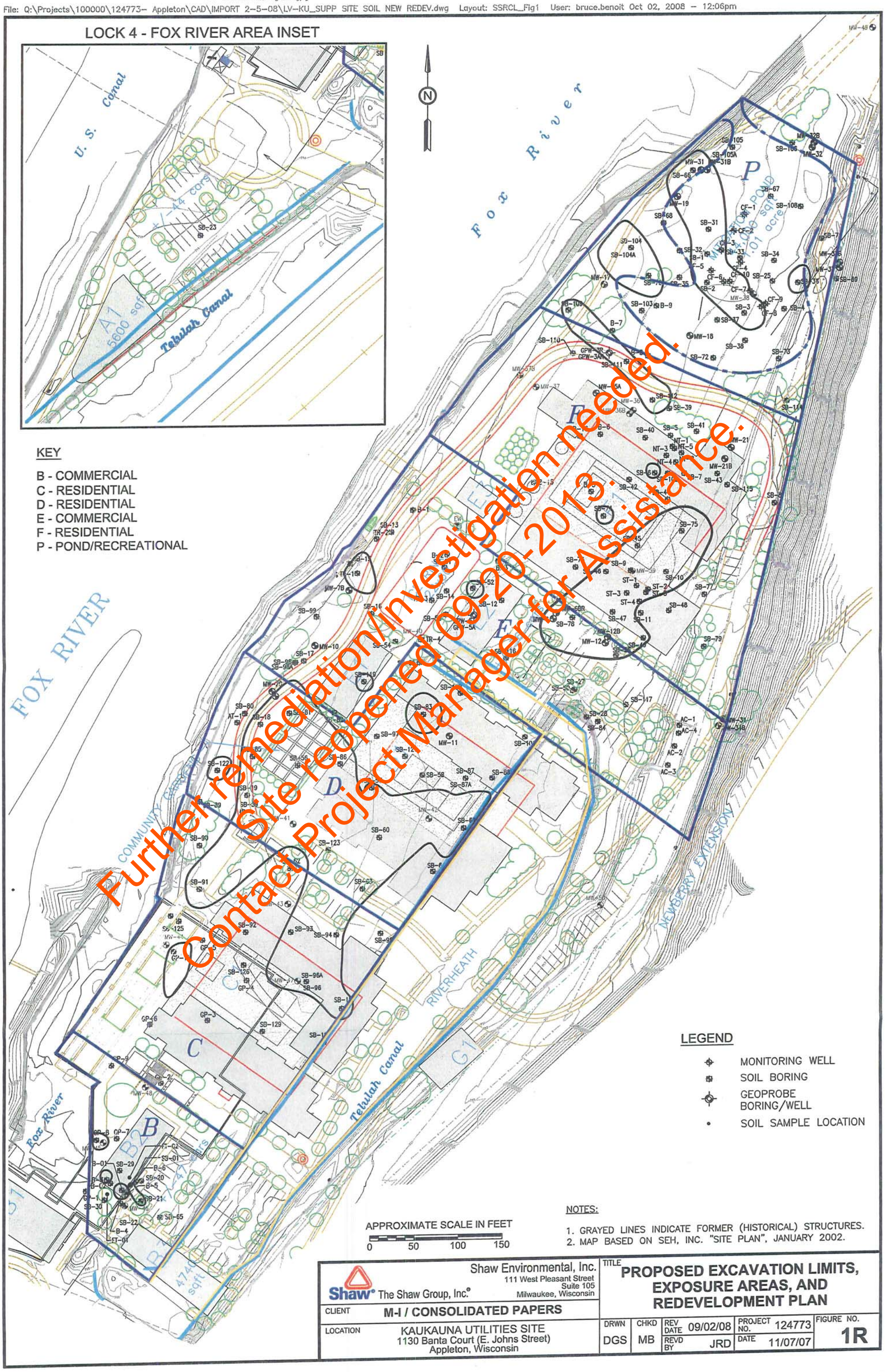

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

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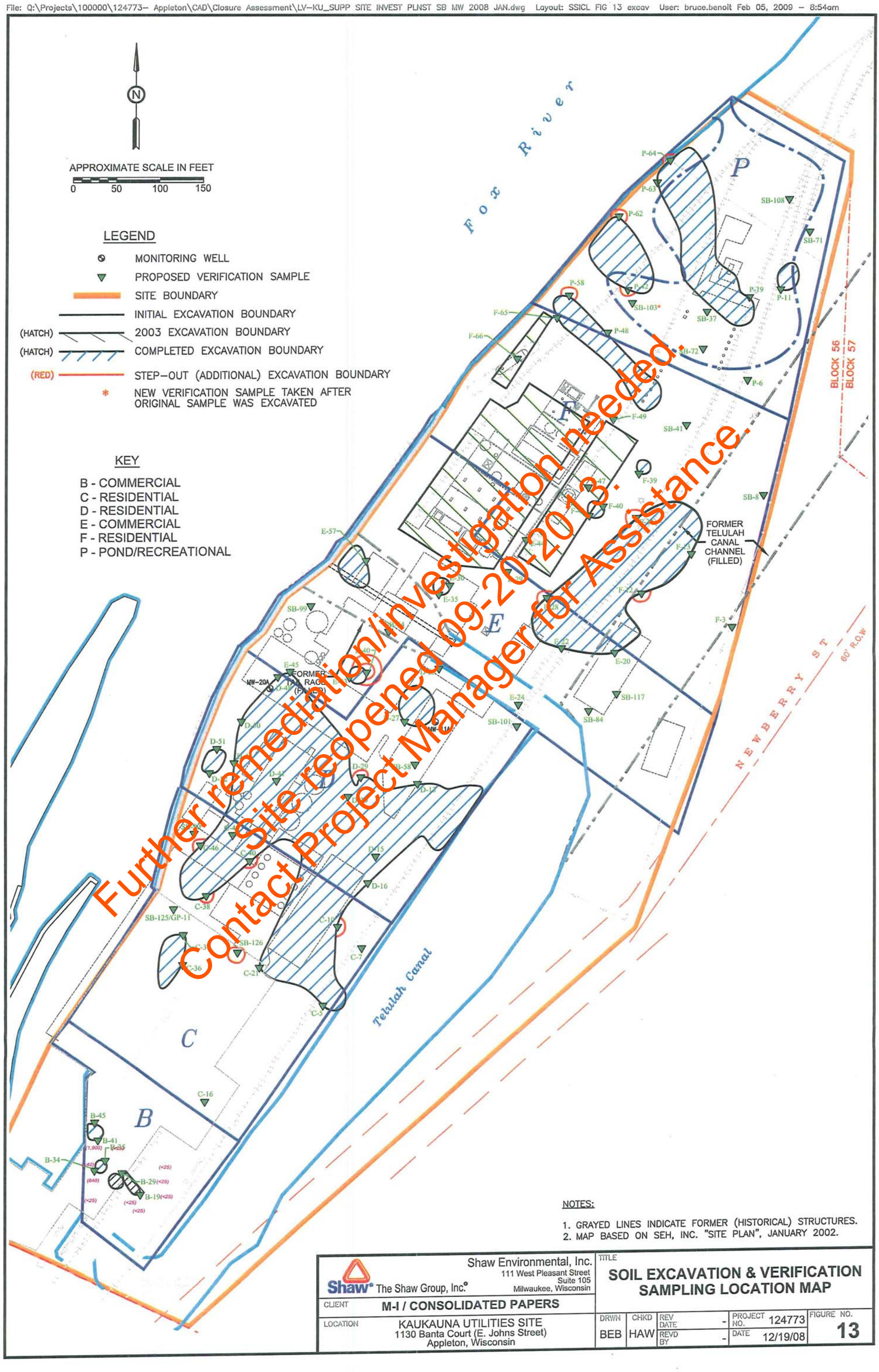
000_S-8 Water Supply Well Locations_20070125110945.jpg
RH site plan 8-15-07.jpg
WT MARKUPS_Page_1.jpg
WT MARKUPS_Page_2.jpg

1" 1/2" 0" 1"

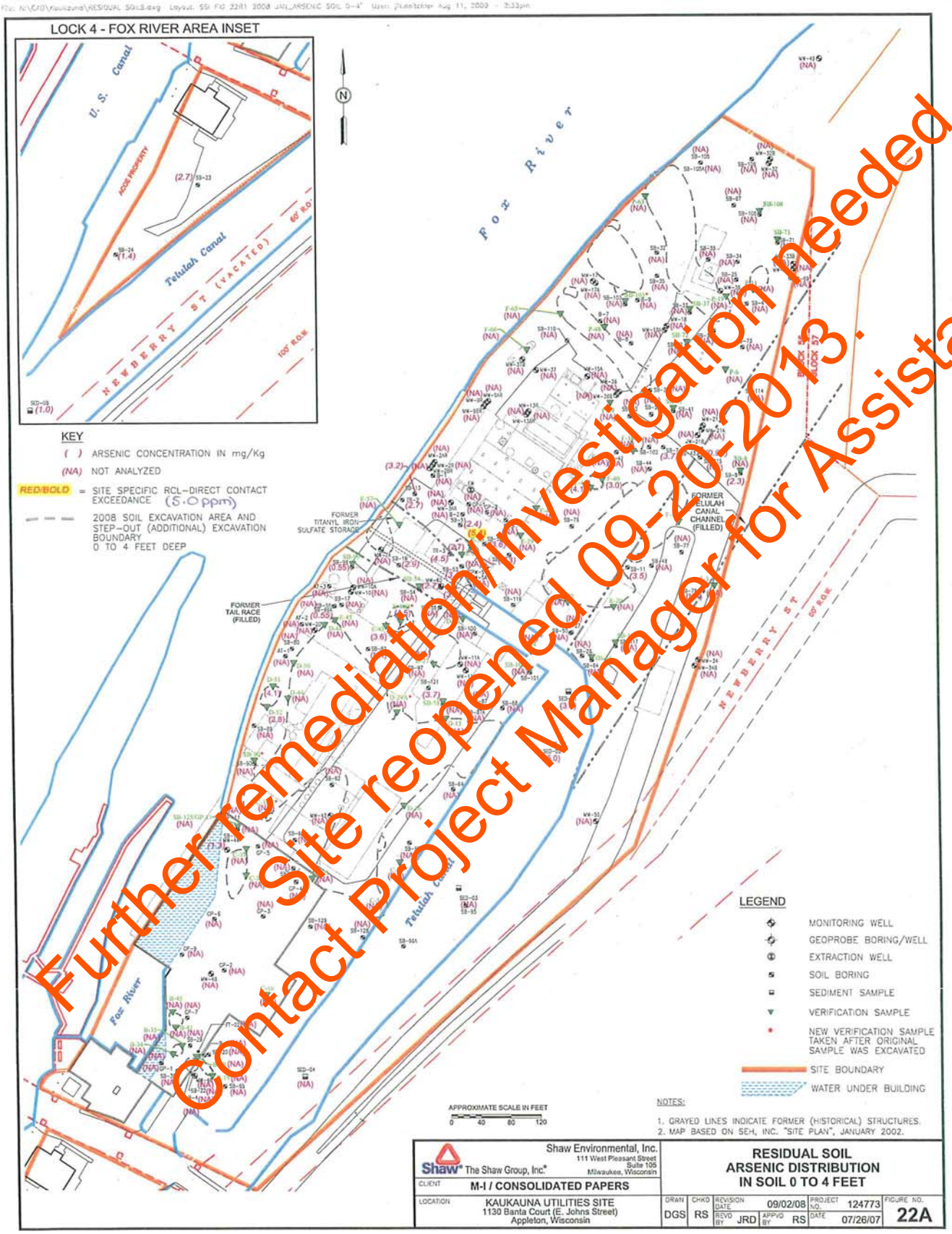
File: Q:\Projects\100000\124773- Appleton\CAD\Closure Assessment\LV-KU_SUPP SITE INVEST PLNST SB MW 2008 JAN.dwg Layout: SSICL FIG 13 excav User: bruce.benoit Feb 05, 2009 - 8:54am



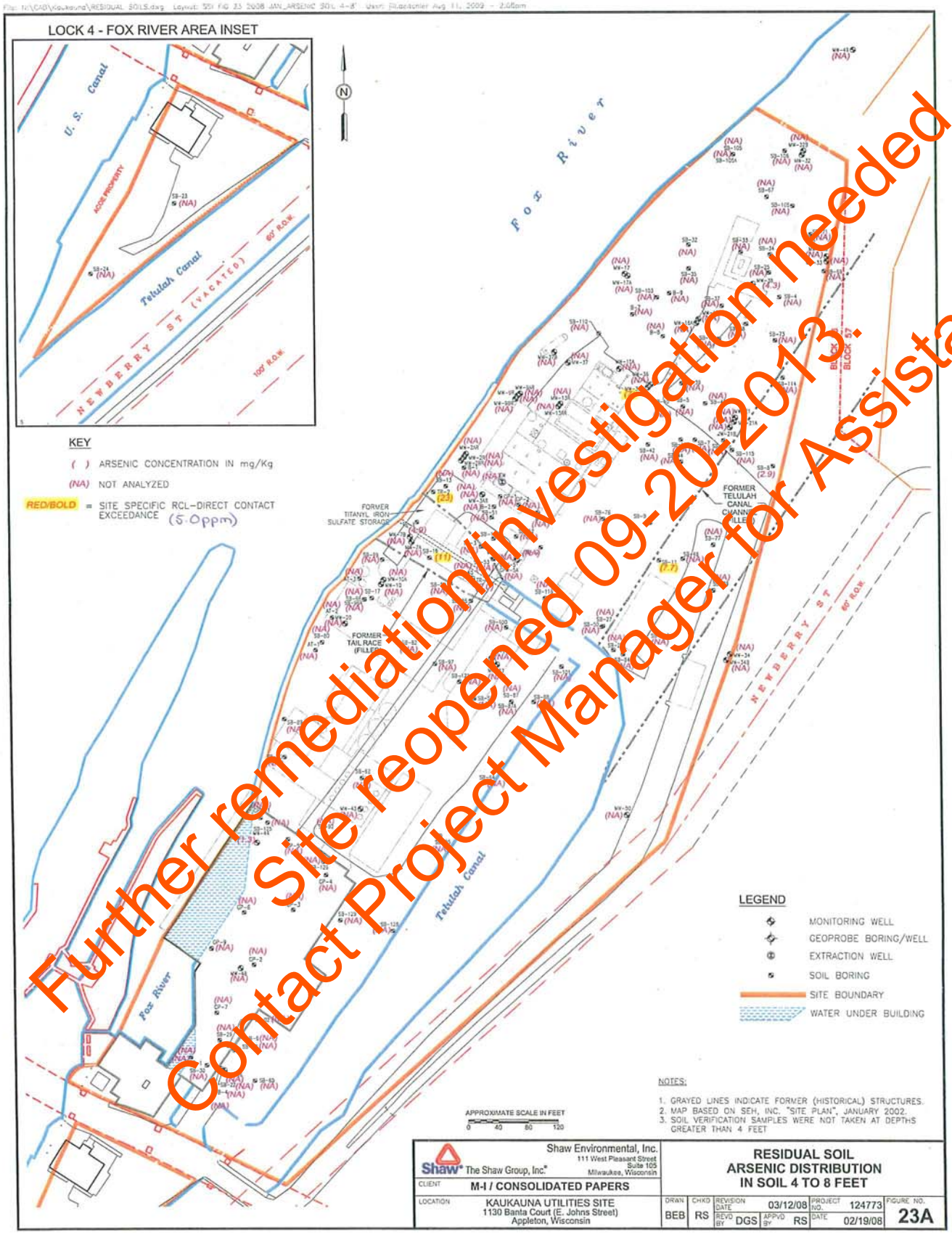
NOTES:

1. GRAYED LINES INDICATE FORMER (HISTORICAL) STRUCTURES.
2. MAP BASED ON SEH, INC. "SITE PLAN", JANUARY 2002.

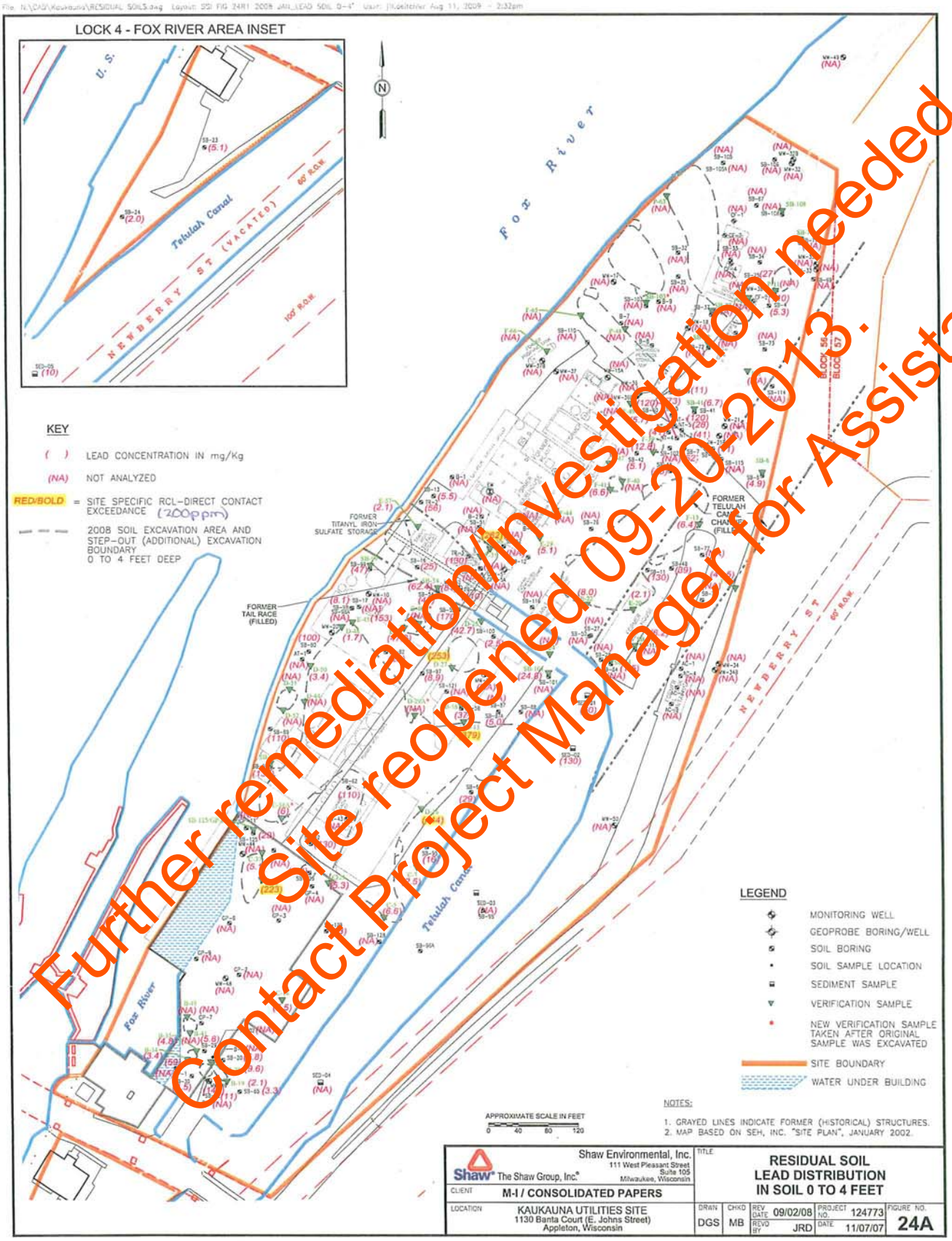
Shaw® The Shaw Group, Inc.® — Shaw Environmental, Inc. 111 West Pleasant Street Suite 105 Milwaukee, Wisconsin			TITLE: SOIL EXCAVATION & VERIFICATION SAMPLING LOCATION MAP		
CLIENT: M-I / CONSOLIDATED PAPERS					
LOCATION: KAUKAUNA UTILITIES SITE 1130 Banta Court (E. Johns Street) Appleton, Wisconsin	DRWN: BEB	CHKD: HAW	REV DATE: - / REVD BY: -	PROJECT NO.: 124773 / DATE: 12/19/08	FIGURE NO.: 13



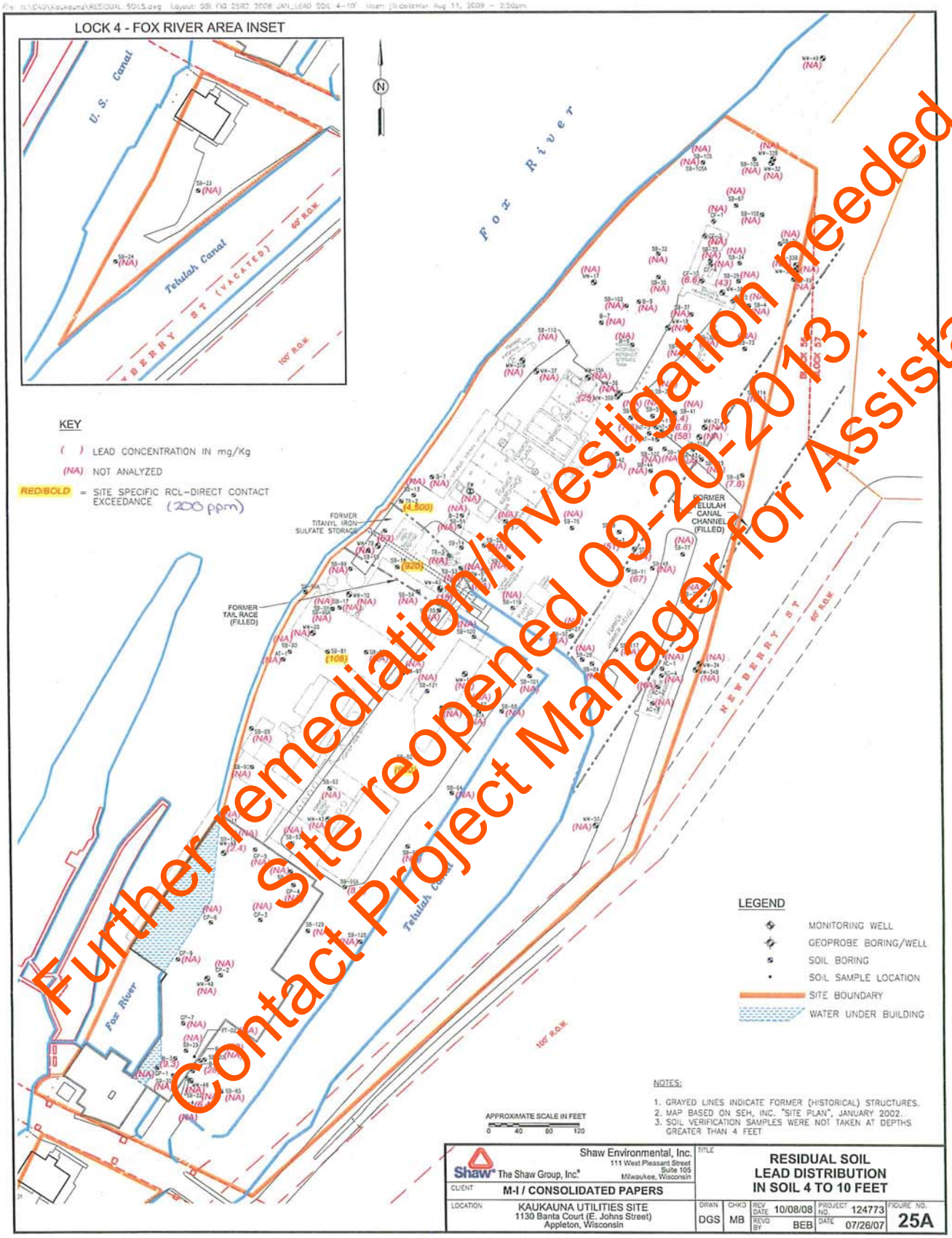
Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



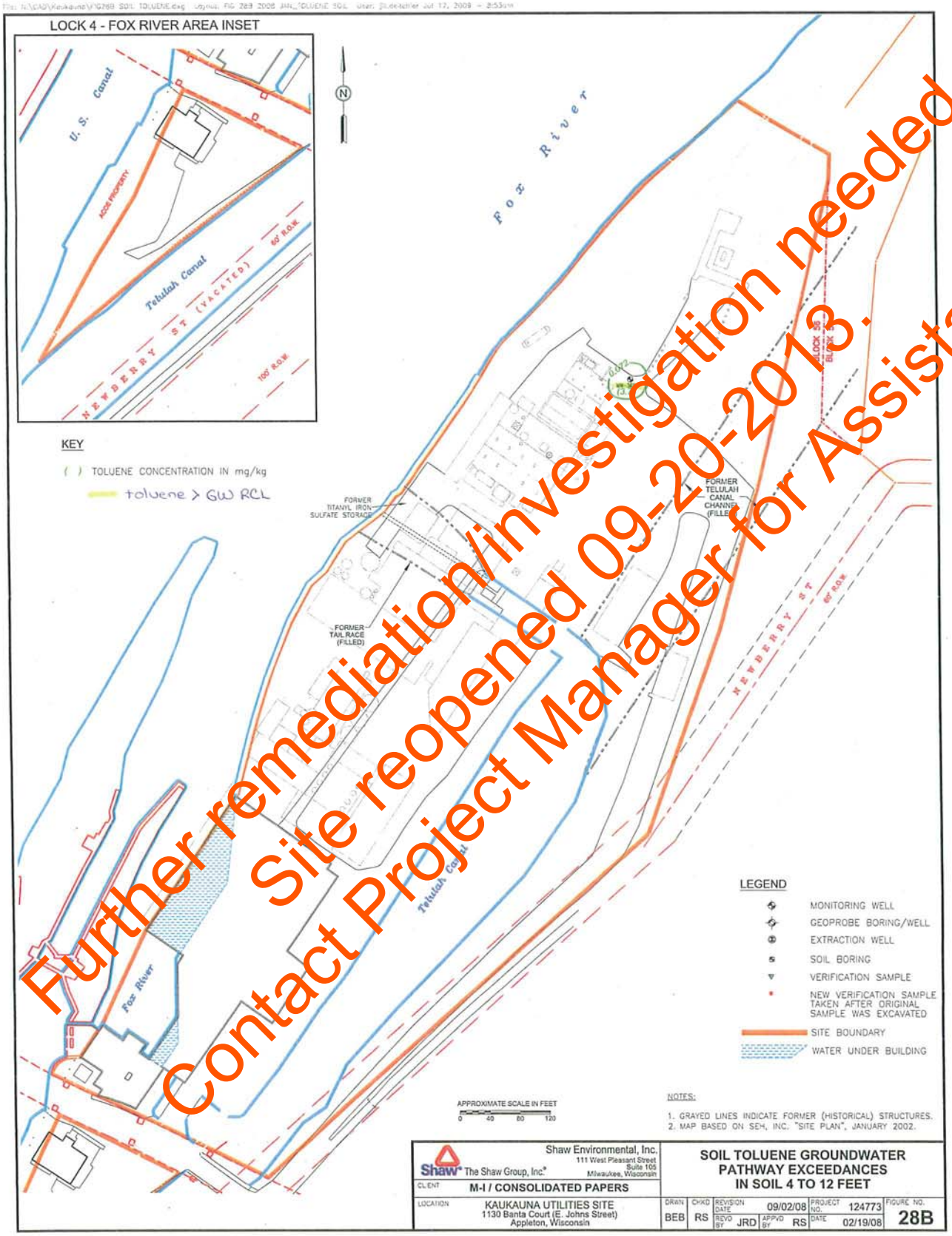
Further remediation investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



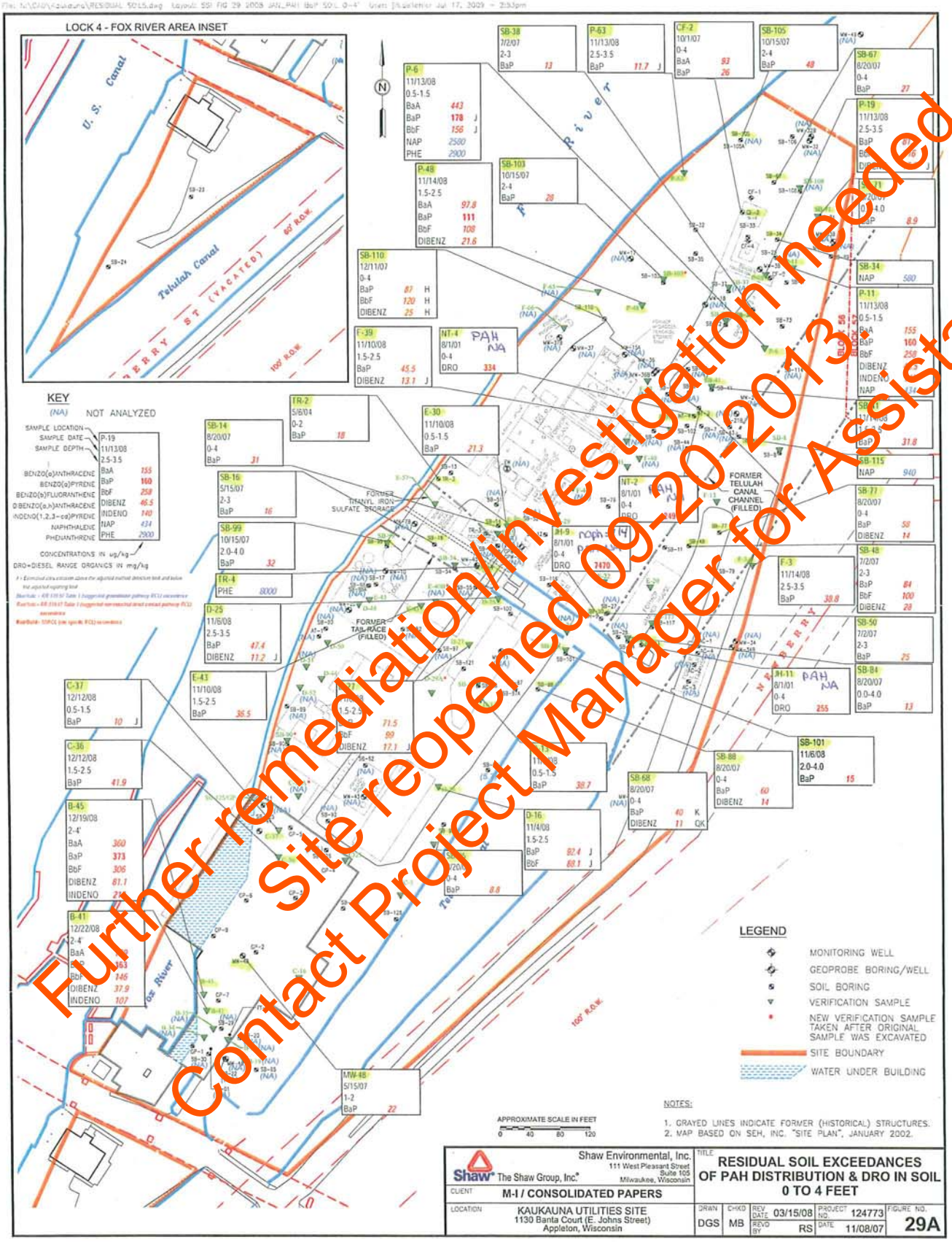
Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

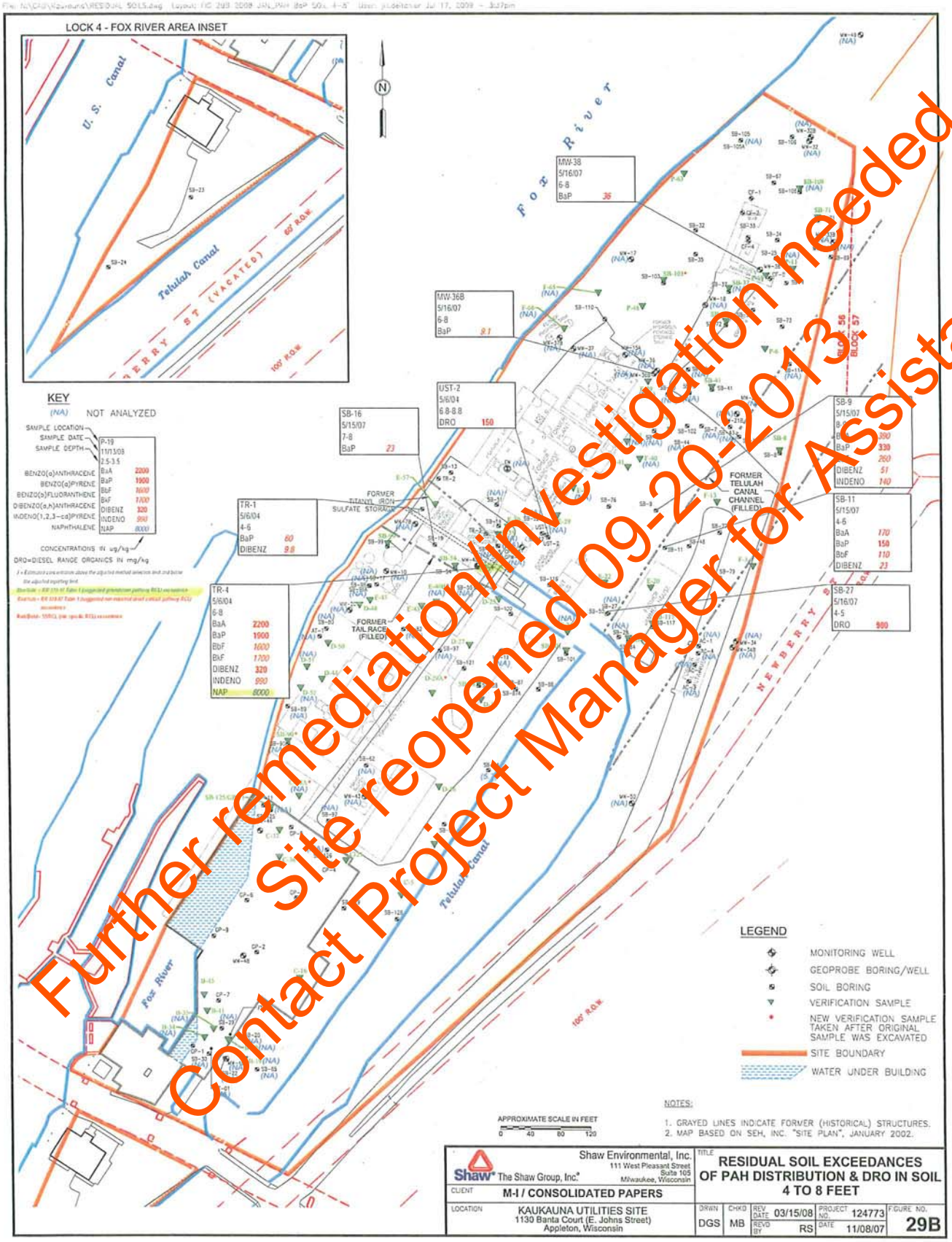


Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.



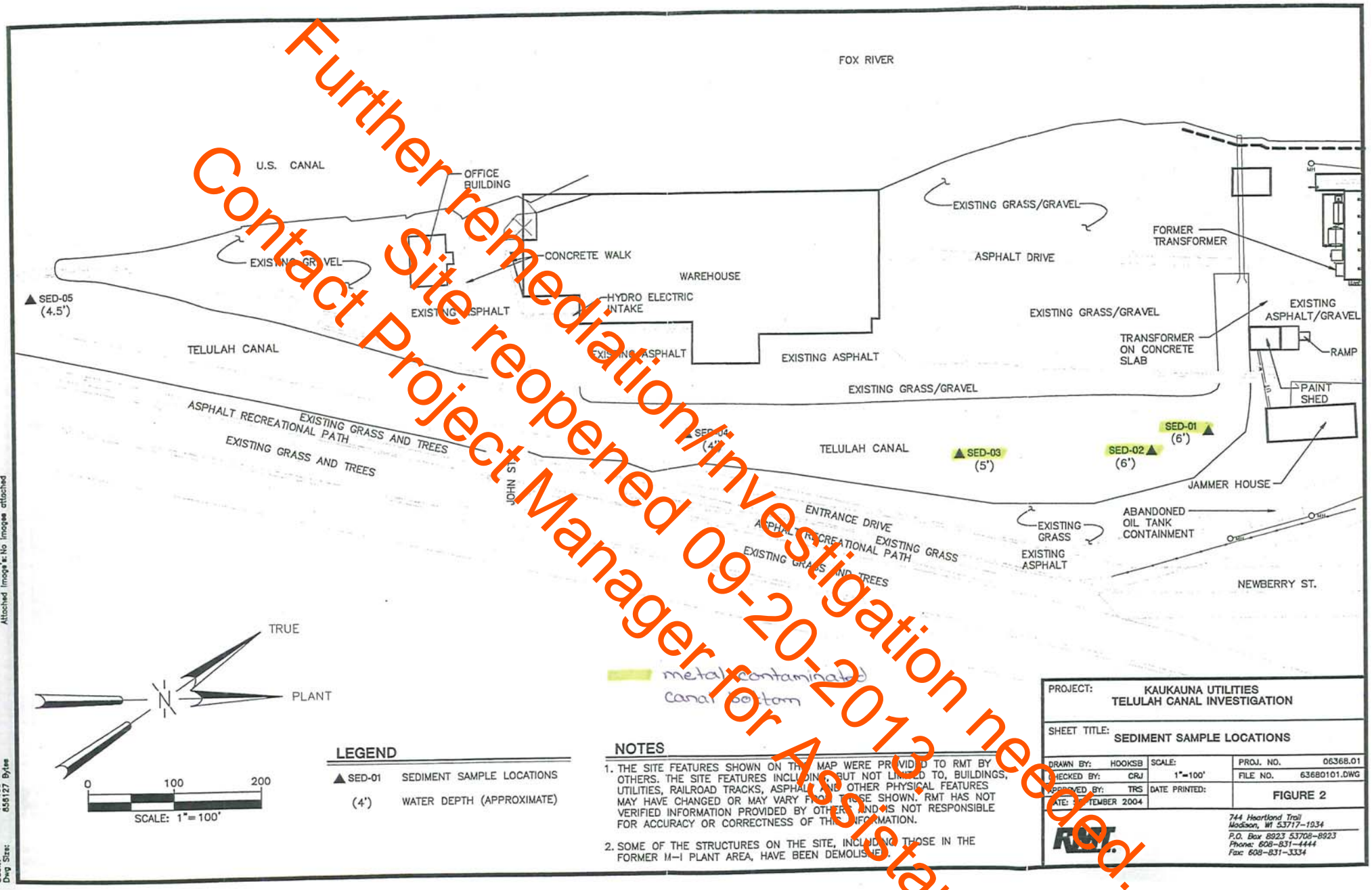
Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

remaining unsat soil > DC RCL @ 0-4' OR > GW RCL



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Further remediation/investigation needed.
Site reopened 09-20-2012.
Contact Project Manager for Assistance.



Shaw Environmental, Inc.
111 West Pleasant Street, Suite 105
Milwaukee, WI 53212-3939
414.291-2350
FAX: 414.291-2385

Shaw™ Shaw Environmental, Inc.

COPY

July 27, 2009

Ms. Jennifer Borski
Hydrogeologist
Wisconsin Department of Natural Resources
Oshkosh Service Center
625 East County Road Y, Ste 700
Oshkosh, Wisconsin 54901-9731

Subject: **Confirmation of Telulah Canal Fill Completion, M-I, LLC VPLE, 1130 Banta Court (formerly East John Street), Appleton, WI**
WDNR VPLE #: 06-45-548615

Dear Ms. Borski:

As indicated in the final closure documentation provided to you by Shaw Environmental, Inc. (Shaw) on July 20, 2009 for the above-referenced site, Shaw confirmed that the filling of the Telulah Canal was complete during a site visit conducted on July 20, 2009. Mr. Tony Meeuwsen, Project Manager with Oscar J. Boldt Construction, confirmed that more than 11,000 tons of crusted concrete and clean demolition materials, obtained from the demolition of the College Avenue Bridge, have been placed and compacted under engineered control conditions into the canal. The fill materials have been placed to a depth of approximately four feet below the existing grade directly on top of the exposed sediments.

Photographs taken on July 20, 2009 of the fill completion are attached to this letter. The fill completion activities address and eliminate the direct contact concerns mentioned in your letter of April 10, 2009. The remainder of Telulah Canal will be filled by RiverHeath LLC prior to development, following approval of the exemption request from the Wisconsin Department of Natural Resources (WDNR).

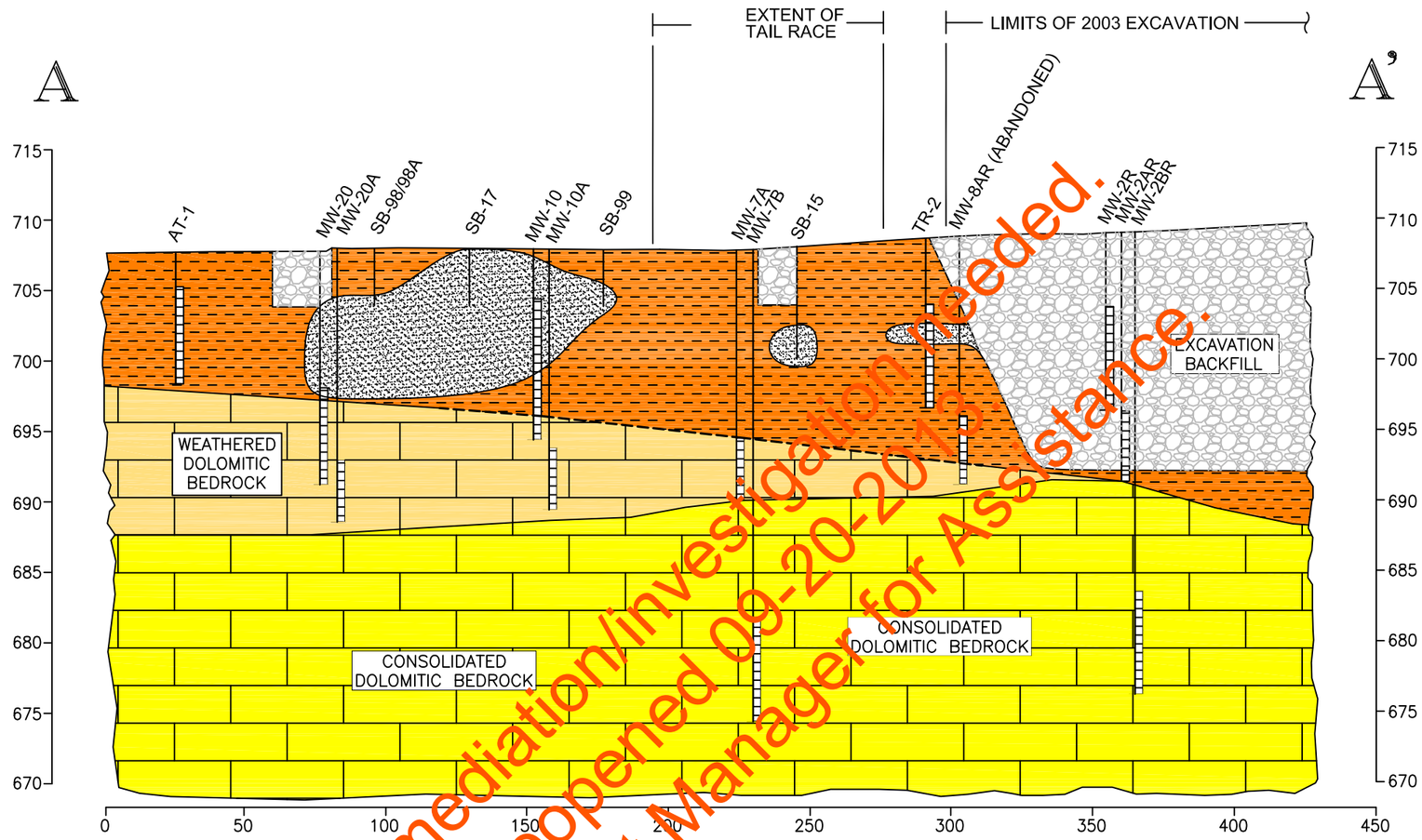
Thank you in advance for your expedited review of the documents provided to you by Shaw on July 20, 2009, and the fill completion confirmation presented herein. Should you have any questions regarding the enclosed information in advance of the August 11th closure meeting, please feel free to call me at (414) 291-2362.

Sincerely,
Shaw Environmental, Inc.

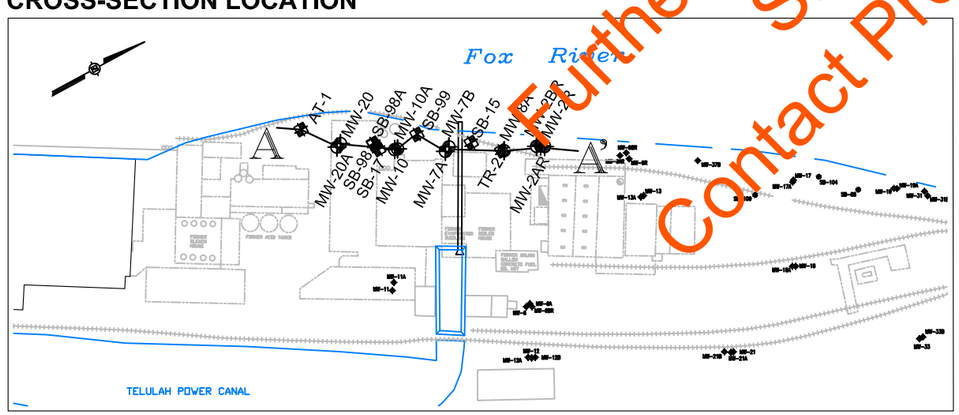
James F. Drought, P.H.
Principal Hydrogeologist

cc: Mr. Jeffery W. Feldt – Kaukauna Utilities
Mr. Richard A. Heinemann, Esq. - Boardman, Suhr, Curry, & Field LLP
Mr. Arthur J.J. Leuterman, Ph.D. - M-I LLC
Mr. Mark Geall - Tanesay

Further remediation/investigation needed. Site reopened 09-20-2013. Contact Project Manager for Assistance.



CROSS-SECTION LOCATION



LEGEND

- WELL
- WELL SCREEN INTERVAL
- END OF BORING
- UNCONSOLIDATED SAND, SILT & CLAY
- WEATHERED DOLOMITIC BEDROCK (DASHED WHERE INFERRED)
- CONSOLIDATED DOLOMITIC BEDROCK
- 2003 EXCAVATION BACKFILL MATERIAL (CLEAN SILTY CLAY)
- FILL MATERIAL

SOURCE:
THE SUSTAINABLE COMPANY, "ISOCONCENTRATION CROSS-SECTION A-A' FOR DISSOLVED CHROMIUM" (MARCH 2003 QUARTERLY REPORT), DATED APRIL 10, 2003. MODIFIED APRIL 3, 2008.

Further remediation/investigation needed.
Site reopened 09-20-2013
Contact Project Manager for Assistance.

Shaw Environmental, Inc.
111 West Pleasant Street
Suite 105
Milwaukee, Wisconsin
The Shaw Group, Inc.

CLIENT	M-I / CONSOLIDATED PAPERS
LOCATION	KAUKAUNA UTILITIES SITE 1130 Banta Court (E. Johns Street) Appleton, Wisconsin

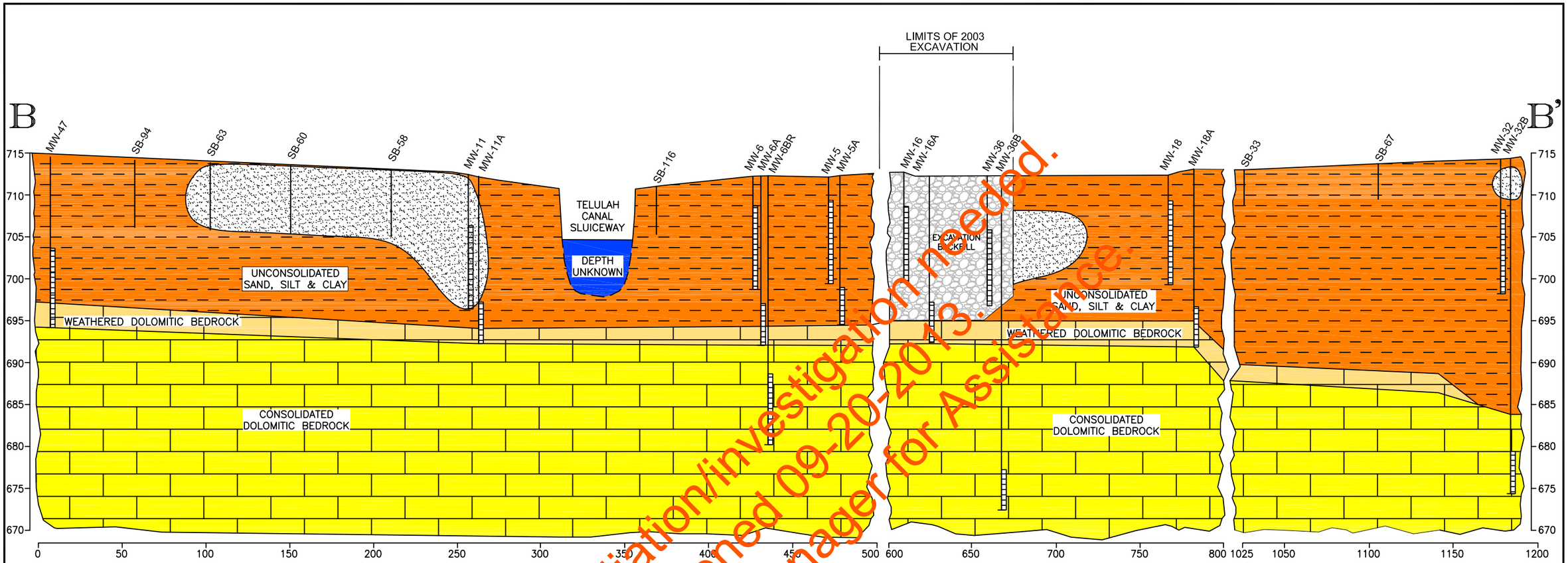
GEOLOGIC CROSS-SECTION WITH PIEZOMETERS CONTAINING DISSOLVED ARSENIC

DRWN	CHKD	REVISION DATE		PROJECT NO.	FIGURE NO.
DGS	RS	REVD BY BEB	APPVD BY RS	DATE 07/26/07	124773
		1/27/09			7

File: Q:\Projects\100000\124773- Appleton\CAD\IMPORT 2-5-08\SUPPLEMENTAL SITE INVESTIGATION - 2008 JAN\LV-KU_XSECTIONS.dwg Layout: FIG 7 XS A-A (new) User: bruce.benoit Feb 02, 2009 - 7

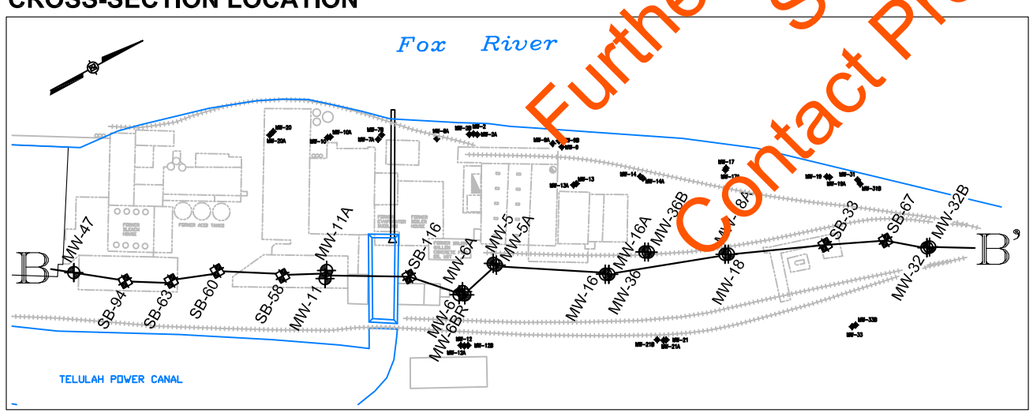
XREF Files: IMAGE Files: Cross Section A - A'.jpg
Cross Section B - B'.jpg
Cross Section C - C'.jpg

1" 1/2" 0" 1"



Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance

CROSS-SECTION LOCATION



LEGEND

- WELL
- WELL SCREEN INTERVAL
- END OF BORING
- UNCONSOLIDATED SAND, SILT & CLAY
- WEATHERED DOLOMITIC BEDROCK
- CONSOLIDATED DOLOMITIC BEDROCK
- 2003 EXCAVATION BACKFILL MATERIAL (CLEAN SILTY CLAY)
- FILL MATERIAL

SOURCE:
THE SUSTAINABLE COMPANY, "ISOCONCENTRATION CROSS-SECTION A-A' FOR DISSOLVED CHROMIUM" (MARCH 2003 QUARTERLY REPORT), DATED APRIL 10, 2003. MODIFIED APRIL 3, 2008.

Shaw Environmental, Inc.
111 West Pleasant Street
Suite 105
Milwaukee, Wisconsin
The Shaw Group, Inc.

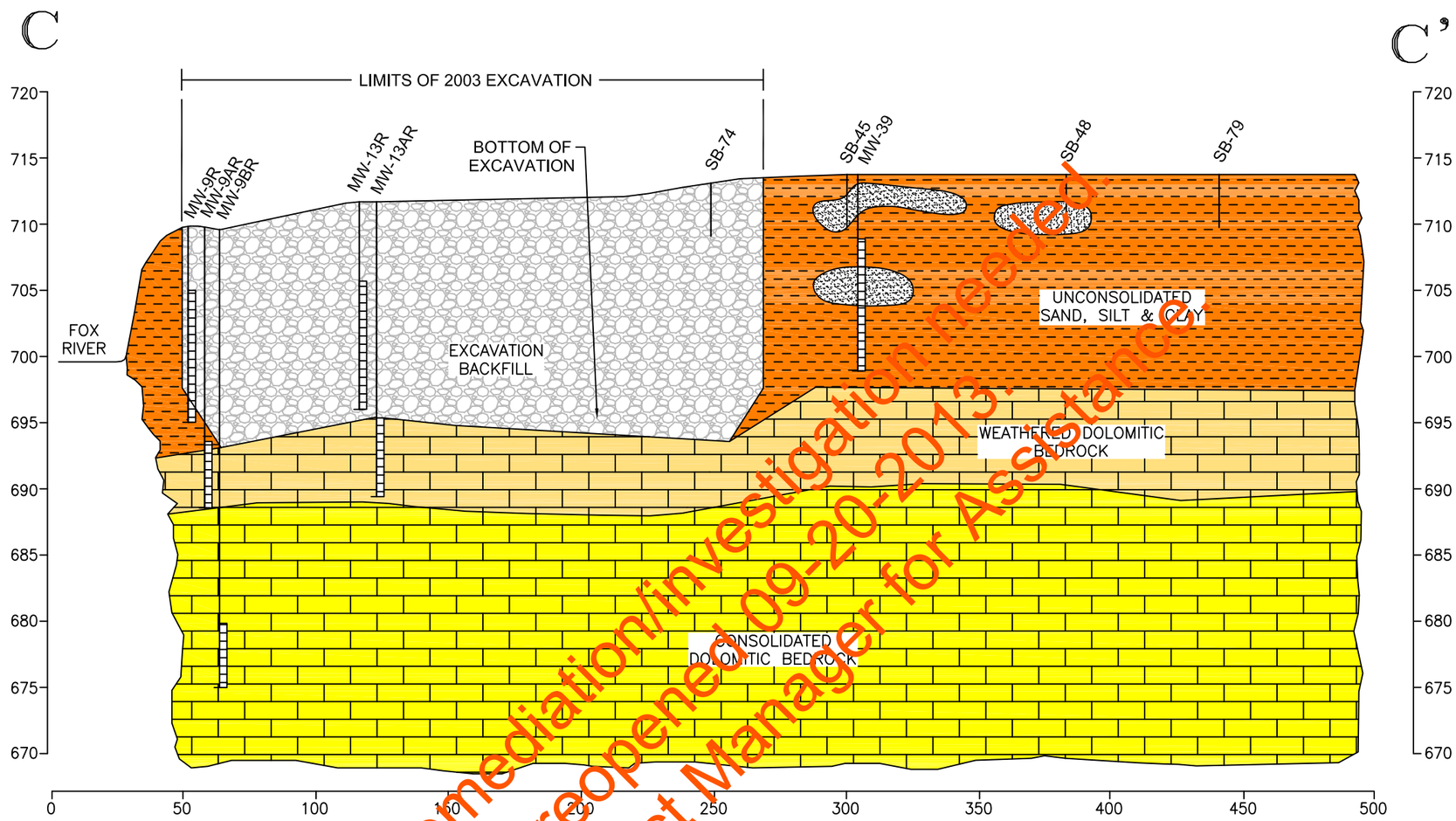
CLIENT: M-I / CONSOLIDATED PAPERS

LOCATION: KAUKAUNA UTILITIES SITE
1130 Banta Court (E. Johns Street)
Appleton, Wisconsin

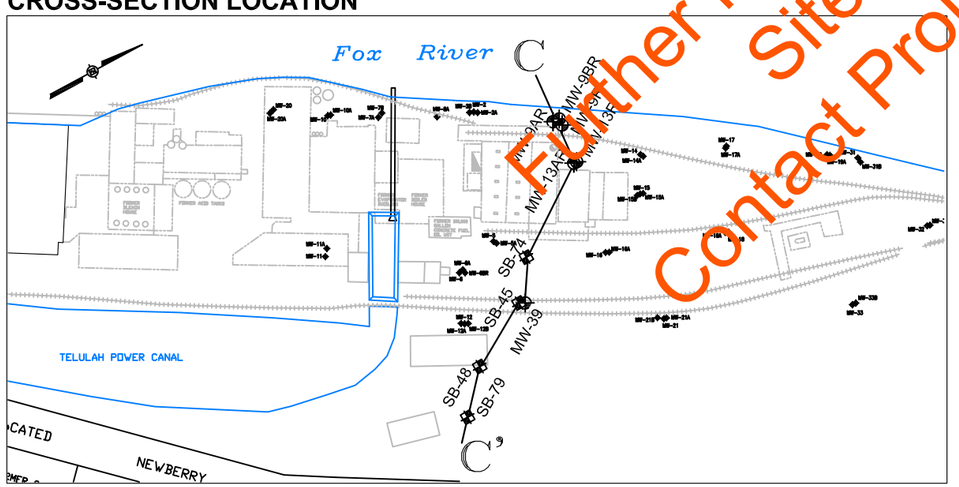
CROSS-SECTION B-B'

DRWN	CHKD	REVISION DATE	PROJECT NO.	FIGURE NO.
DGS	RS	10/02/08	124773	15R
		REVD BY: BEB	APPVD BY: RS	DATE: 07/26/07

File: C:\LV-KU_XSECTIONS.dwg Layout: FIG15R XS B-B User: Jill.Deitchler Mar 17, 2009 - 8:17pm
XREF Files: IMAGE Files: Cross Section A - A'.jpg
Cross Section B - B'.jpg
Cross Section C - C'.jpg
1" 1/2" 0" 1"



CROSS-SECTION LOCATION



LEGEND

WELL

WELL SCREEN INTERVAL

END OF BORING

UNCONSOLIDATED SAND, SILT & CLAY

WEATHERED DOLOMITIC BEDROCK

CONSOLIDATED DOLOMITIC BEDROCK

2003 EXCAVATION BACKFILL MATERIAL (CLEAN SILTY CLAY)

FILL MATERIAL

SOURCE:
THE SUSTAINABLE COMPANY,
"ISOCONCENTRATION CROSS–SECTION A–A' FOR DISSOLVED CHROMIUM" (MARCH 2003 QUARTERLY REPORT), DATED APRIL 10, 2003. MODIFIED APRIL 3, 2008.

Further remediation/investigation needed
Site reopened 09-20-2013:
Contact Project Manager for Assistance

Shaw Environmental, Inc.
111 West Pleasant Street
Suite 105
Milwaukee, Wisconsin
The Shaw Group, Inc.

CLIENT: M-I / CONSOLIDATED PAPERS

LOCATION: KAUKAUNA UTILITIES SITE
1130 Banta Court (E. Johns Street)
Appleton, Wisconsin

CROSS-SECTION C-C'

DRWN	CHKD	REVISION DATE	PROJECT NO.	FIGURE NO.
DGS	RS	10/02/08	124773	16R
		REVD BY: BEB	APPVD BY: RS	DATE: 07/26/07

File: C:\LV-KU_XSECTIONS.dwg Layout: FIG16R XS C-C User: Jill.Deitchler Mar 17, 2009 - 8:17pm
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Cross Section B - B'.jpg
Cross Section C - C'.jpg
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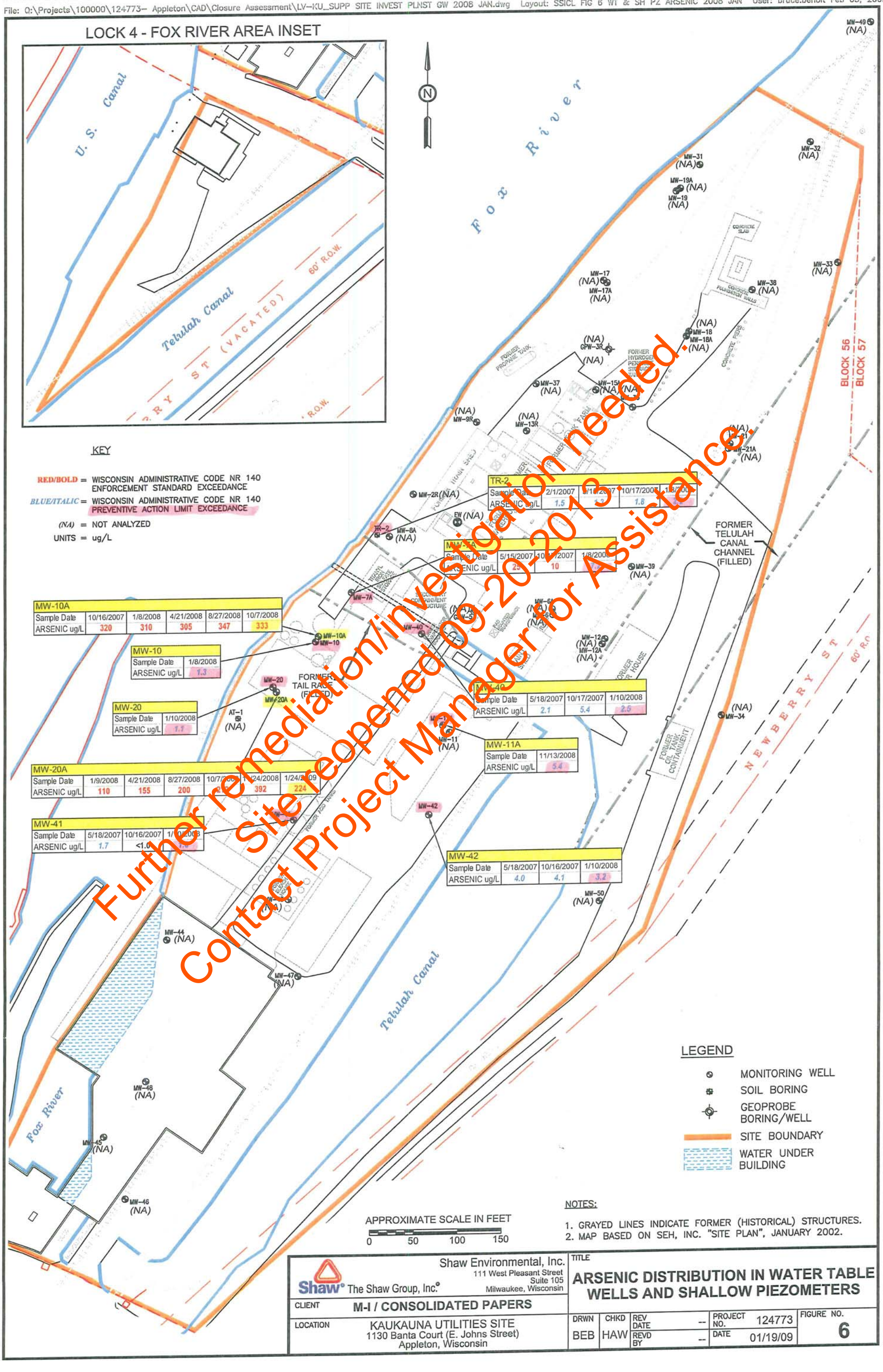
XREF Files: IMAGE Files: 000_flownet aa markup.jpg
000_S-8 Water Supply Well Locations_20070125110945.jpg
RH site plan 8-15-07.jpg
WT MARKUPS_Page_1.jpg
WT MARKUPS_Page_2.jpg

1" 1/2" 0" 1"

File: O:\Projects\100000\124773- Appleton\CAD\Closure Assessment\LV-KU_SUPP SITE INVEST PLNST GW 2008 JAN.dwg Layout: SSICL FIG 6 WT & SH PZ ARSENIC 2008 JAN User: bruce.benoit Feb 05, 2009



Further remediation/investigation needed.
Site reopened 09-20-2013.
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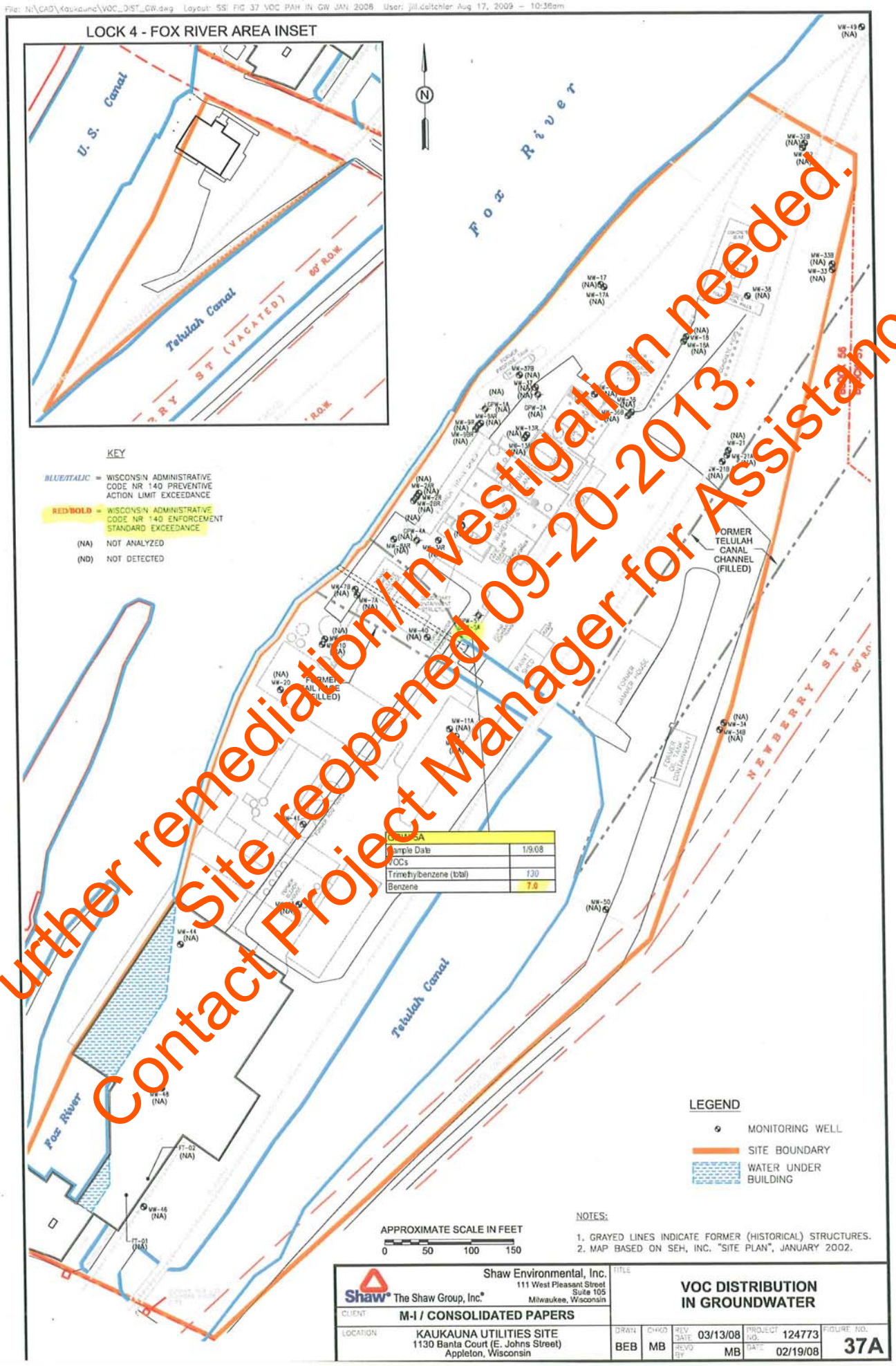
Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

XREF Files: IMAGE Files: 000_flownet_ao_markup.jpg
000_S-8 Water Supply Well Locations_20070125110945.jpg
RH site plan 8-13-07.jpg
WT MARKUPS_Page_1.jpg
WT MARKUPS_Page_2.jpg

File: N:\CAD\Kaukauna\VOC_DIST_GW.dwg Layout: SSI FIG 37 VOC PAH IN GW JAN 2008 User: jill.deitchler Aug 17, 2009 - 10:38am

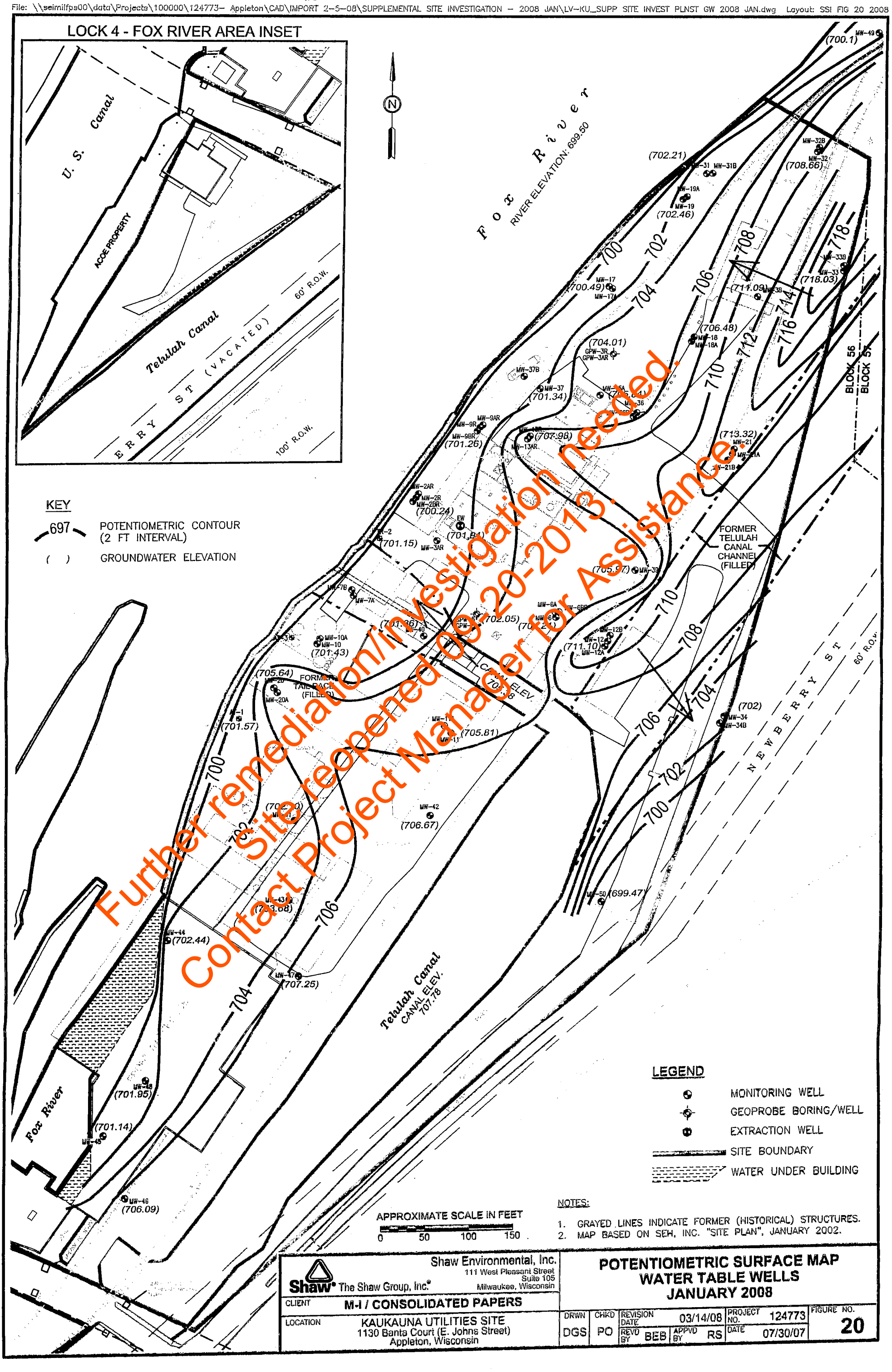


GW-MSA	
Sample Date	1/9/08
VOCs	
Trimethylbenzene (total)	130
Benzene	7.0

XREF Files: IMAGE Files: 000_flownet aa markup.jp
000_S-8 Water Supply Well Locations_200701251 .jpg
RH site plan 8-15-07.jpg
WT MARKUPS_Page_1.jpg
WT MARKUPS_Page_2.jpg

1" 1/2 0" 1"

File: \\seimilfps00\data\Projects\100000\124773- Appleton\CAD\IMPORT 2-5-08\SUPPLEMENTAL SITE INVESTIGATION - 2008 JAN\LV-KU_SUPP SITE INVEST PLNST GW 2008 JAN.dwg Layout: SSI FIG 20 2008



Further remediation/investigation needed.
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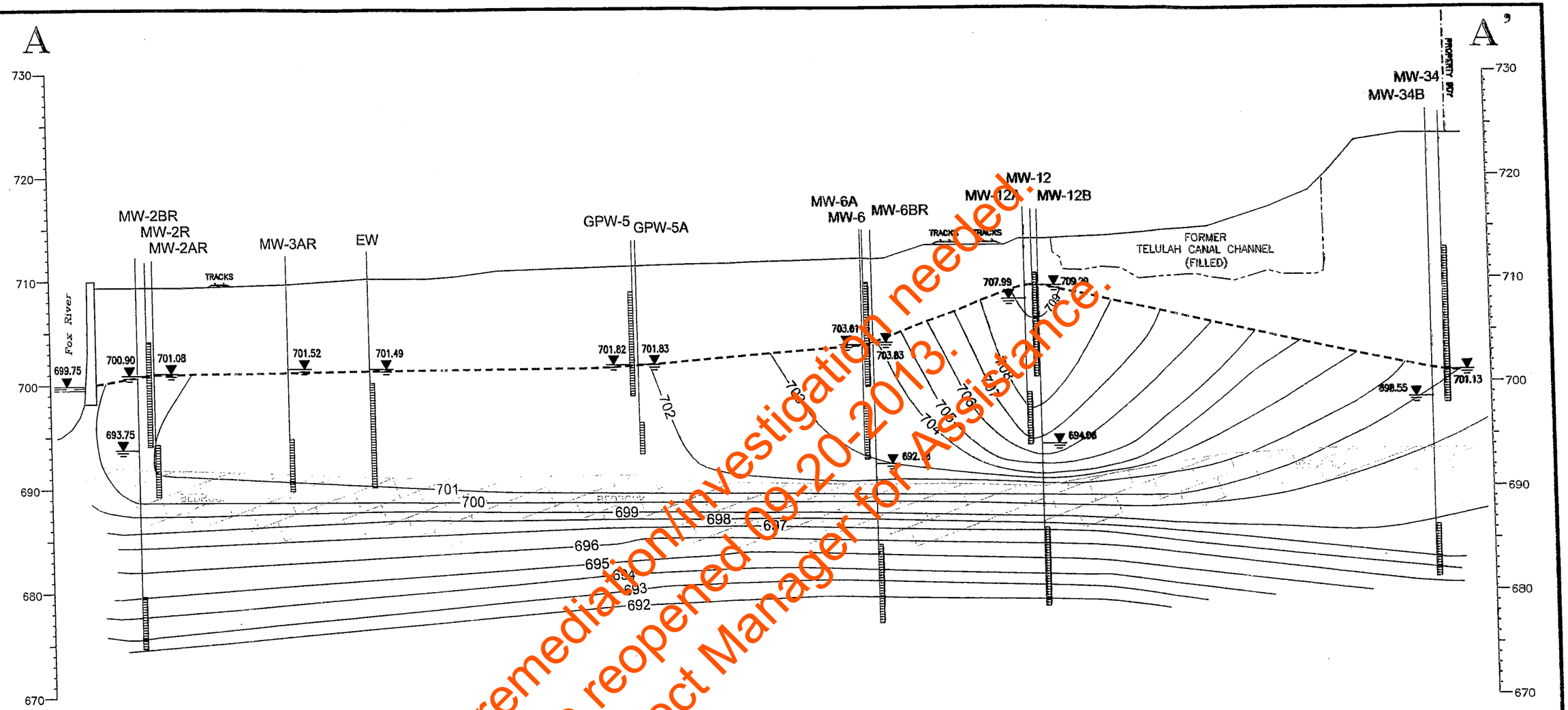
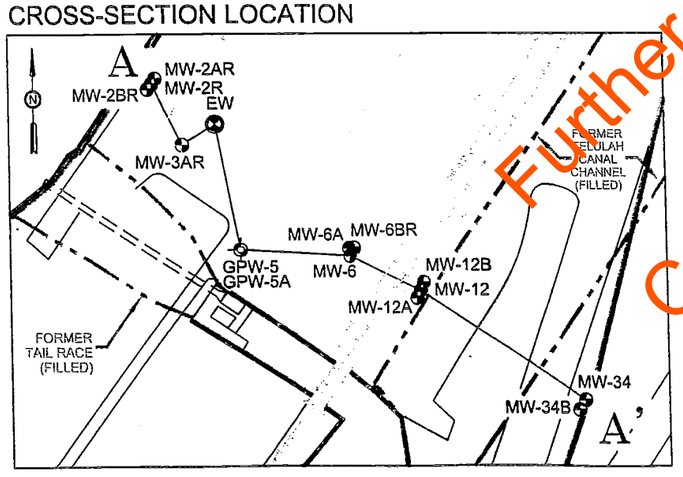


CROSS-SECTION LOCATION



LEGEND

701.49 WATER TABLE ELEVATION

FLOWNET CONTOUR

WELL SCREEN INTERVAL

VERTICAL SCALE IN FEET
0 5 10 15
0 20 40 60
HORIZONTAL SCALE IN FEET

Further remediation/investigation needed.
Site reopened 09-20-2013.
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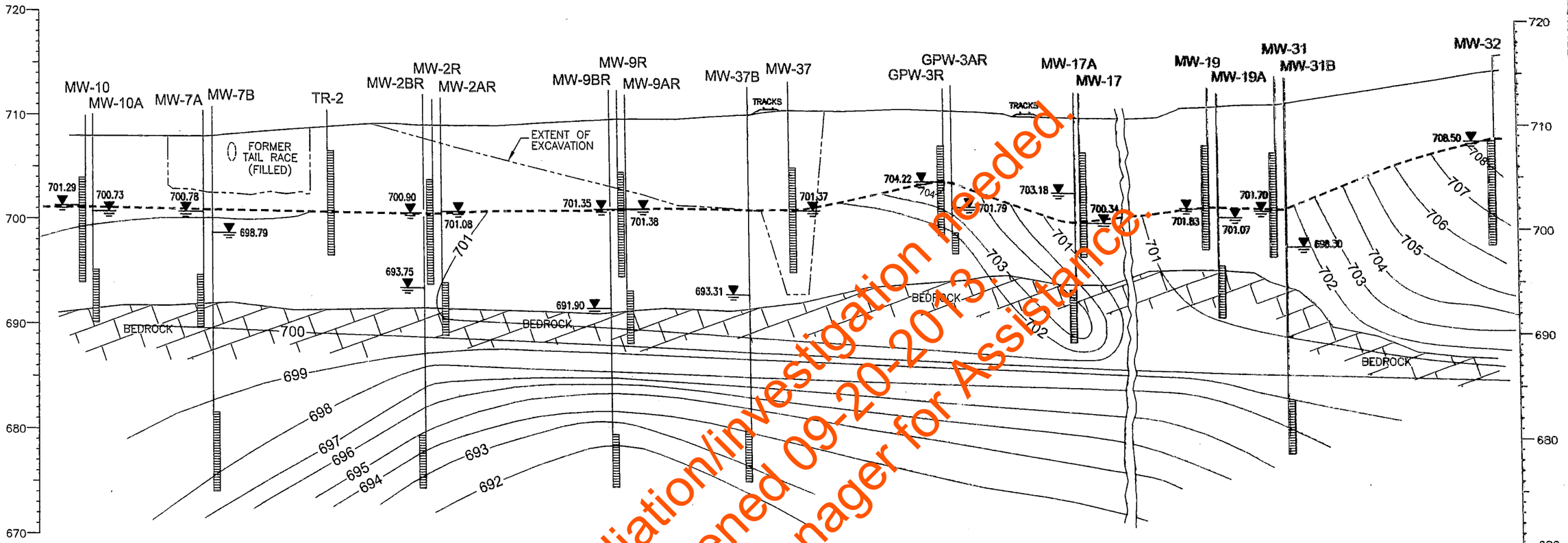
CLIENT	M-I / CONSOLIDATED PAPERS
LOCATION	KAUKAUNA UTILITIES SITE 1130 Banta Court (E. Johns Street) Appleton, Wisconsin

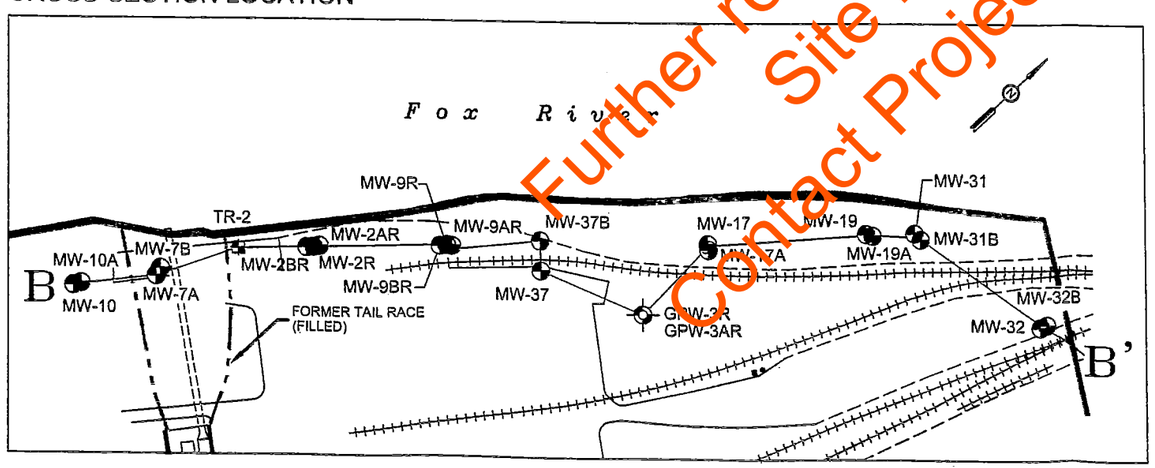
FLOWNET A-A'
JANUARY 2008

DRWN	CHKD	REVISION DATE	PROJECT NO.	FIGURE NO.
DS	RS	01/24/08	124773	18
		REVD BY DS / APPVD BY RS	DATE 09/20/07	

XREF Files: IMAGE Files: 000_flownet 12-13-07_Pa jpg
000_flownet 12-13-07_Page_2.jpg
000_flownet aa markup.jpg
000_S-8 Water Supply Well Locations_20070125110945.jpg
RH site plan 8-15-07.jpg
File: \\Seimlfps00\data\Projects\100000\124773- Appleton\CAD\IMPORT 2-5-08\SUPPLEMENTAL SITE INVESTIGATION - 2008 JAN\LV-KU_XSs AA & BB.dwg Layout: XSEC AA 2007 DEC FLOWNET User: Jill.Deitch



CROSS-SECTION LOCATION



LEGEND

WATER TABLE ELEVATION 702.59

FLOWNET CONTOUR

WELL SCREEN INTERVAL

VERTICAL SCALE IN FEET
0 5 10 15
0 30 60 90
HORIZONTAL SCALE IN FEET

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Shaw Environmental, Inc.
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CLIENT: M-I / CONSOLIDATED PAPERS

LOCATION: KAUKAUNA UTILITIES SITE
1130 Banta Court (E. Johns Street)
Appleton, Wisconsin

FLOWNET B-B'
JANUARY 2008

DRWN	CHKD	REVISION DATE	PROJECT NO.	FIGURE NO.
DS	RS	01/24/07	124773	19
		REVD BY DS / APPVD BY RS	DATE 10/29/07	

XREF Files: IMAGE Files: 000_flownet 12-13-07_Pag 9
000_flownet 12-13-07_Page_2.jpg
000_flownet aa markup.jpg
000_S-8 Water Supply Well Locations_20070125110945.jpg
RH site plan 8-15-07.jpg

File: \\Seimilfps00\data\Projects\100000\124773- Appleton\CAD\IMPORT 2-5-08\SUPPLEMENTAL SITE INVESTIGATION - 2008 JAN\LV-KU_XSs AA & BB.dwg Layout: XSEC BB 2007 DEC FLOWNET User: Jill.Deito

Table 3
Soil RCRA Metals Data
M-I/Kaukauna Utilities -02-45-548762
1130 Banta Court
Appleton, Wisconsin

Boring/Well Number	Sample Date	Sample Depth	Existing Sample Location (yes/no)	Sample Within Saturated Zone (yes/no)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Sulfur (mg/kg)	Iron (mg/kg)	Titanium (mg/kg)	Sodium (mg/kg)	Chloride (mg/kg)	pH (su)
NR 720.11 Table 2-Direct Contact		Non-Ind			0.039	NES	8	50	NES	NES	NES	NES	NES	NES	NES	NES	NES
U.S. EPA Region 3 Site Screening Levels-Direct Conta		Non-Ind			0.43	16000	78	NES	NES	390	390	NES	55000	NES	NES	NES	NES
Site Specific RCL-Direct Contact					5	NES	NES	200	NES	NES	NES	NES	NES	NES	NES	NES	NES
Site Specific RCL-Groundwater Pathway					NES	NES	NES	NES	NES	NES	NES	NES	NES	NES	NES	NES	NES
Former Telulah Canal																	
SB-8	5/16/2007	1-2'	yes	no	2.3	65	0.2	4.9	0.0092	<0.56	<0.10	NA	NA	NA	NA	NA	NA
SB-8	5/16/2007	5-6'	yes	no	2.9	110	0.24	7.8	0.012	<0.63	<0.11	NA	NA	NA	NA	NA	NA
SB-8	5/16/2007	7-8'	yes	yes	2.4	100	0.25	8	0.015	<0.69	<0.13	NA	NA	NA	NA	NA	NA
SB-11	5/15/2007	0-2'	yes	no	3.5	79	0.56	130	0.022	<0.58	<0.11	NA	NA	NA	NA	NA	NA
SB-11	5/15/2007	4-6'	yes	no	7.7	170	0.23	67	0.092	2	<0.18	NA	NA	NA	NA	NA	NA
AST Containment																	
AC-1	8/11/2003	8-12'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AC-1	8/11/2003	12-16'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AC-1	8/11/2003	16-20'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AC-2	8/11/2003	8-12'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AC-2	8/11/2003	16-20'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AC-3	8/11/2003	8-12'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AC-3	8/11/2003	16-20'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AC-4	8/11/2003	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AC-4	8/11/2003	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AC-4	8/11/2003	8-12'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AC-4	8/11/2003	12-16'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AC-4	8/11/2003	16-20'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Titanyl Iron Sulfate Storage & Tail Race																	
MW7A-2	8/18/98	7.5-9.5'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW7A-6	8/18/98	17.5-19.5'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-1	Aug-01	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-1	Aug-01	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-2	Aug-01	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-2	Aug-01	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-2	Aug-01	8-12'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-3	Aug-01	Surface	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-3	Aug-01	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-3	Aug-01	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-3	Aug-01	8-12'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-4	Aug-01	0-4'	no	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-4	Aug-01	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-5	Aug-01	Surface	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-5	Aug-01	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-5	Aug-01	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-7	Aug-01	Surface	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-8	Aug-01	Surface	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-8	Aug-01	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-8	Aug-01	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-9	Aug-01	Surface	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-9	Aug-01	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-9	Aug-01	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-10	Aug-01	Surface	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-11A	Aug-01	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-11A	Aug-01	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-11B	Aug-01	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-11B	Aug-01	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-11B	Aug-01	8-12'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIS-11C	Aug-01	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Further remediation/investigation needed.
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Soil RCRA Metals Data
M-I/Kaukauna Utilities -02-45-548762
1130 Banta Court
Appleton, Wisconsin

Boring/Well Number	Sample Date	Sample Depth	Existing Sample Location (yes/no)	Sample Within Saturated Zone (yes/no)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Sulfur (mg/kg)	Iron (mg/kg)	Titanium (mg/kg)	Sodium (mg/kg)	Chloride (mg/kg)	pH (su)
NR 720.11 Table 2-Direct Contact		Non-Ind			0.039	NES	8	50	NES	NES	NES	NES	NES	NES	NES	NES	NES
U.S. EPA Region 3 Site Screening Levels-Direct Conta		Non-Ind			0.43	16000	78	NES	NES	390	390	NES	55000	NES	NES	NES	NES
Site Specific RCL-Direct Contact					5	NES	NES	200	NES	NES	NES	NES	NES	NES	NES	NES	NES
Site Specific RCL-Groundwater Pathway					NES	NES	NES	NES	NES	NES	NES	NES	NES	NES	NES	NES	NES
TIS-11C	Aug-01	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-1	5/6/2004	0-2'	no	no	4.3	100	0.33	86	0.072	1.3	0.19	NA	NA	NA	NA	NA	NA
TR-1	5/6/2004	4-6'	yes	no	4.9	120	0.44	63	0.037	1.4	0.097	NA	NA	NA	NA	NA	NA
TR-2	5/6/2004	0-2'	yes	no	2.7	67	0.25	56	0.074	1.5	0.092	NA	NA	NA	NA	NA	NA
TR-2	5/6/2004	4-6'	yes	no	23	180	0.57	4500	0.46	3.2	0.23	NA	NA	NA	NA	NA	NA
TR-3	5/6/2004	1-3'	yes	no	4.5	88	0.47	130	0.079	1.2	18	NA	NA	NA	NA	NA	NA
TR-4	5/6/2004	0-2'	yes	no	3.1	74	0.16	110	0.56	1.3	0.07	NA	NA	NA	NA	NA	NA
TR-4	5/6/2004	4-6'	yes	no	0.75	7.5	<0.077	1.3	0.051	0.42	<0.023	NA	NA	NA	NA	NA	NA
TR-4	5/6/2004	6-8'	yes	no	2	28	0.17	15	0.072	0.92	1.4	NA	NA	NA	NA	NA	NA
SB-13	5/15/2007	2-3'	yes	no	3.2	NA	NA	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-14	5/15/2007	0-1'	no	no	2700	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-14	8/20/2007	0-4'	no	no	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-15	5/15/2007	1-2'	no	no	3.7	NA	NA	49	NA	NA	NA	NA	14000	200	NA	NA	8.2
SB-16	5/15/2007	2-3'	yes	no	2.9	NA	NA	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-16	5/15/2007	7-8'	yes	no	11	NA	NA	920	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-51	7/2/2007	2-3'	yes	no	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-52	7/2/2007	1-2'	yes	no	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-53	7/2/2007	2-3'	yes	no	3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-54	7/2/2007	1-2'	yes	no	NA	NA	NA	43	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-55	7/2/2007	2-3'	yes	no	NA	NA	NA	170	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-99	10/15/2007	2-4'	yes	no	NA	NA	NA	47	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-40	5/16/07	1-2'	yes	no	2.7	NA	NA	81	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acid Tank																	
AT-1	5/6/2004	0-2'	yes	no	NA	NA	NA	NA	NA	NA	NA	36000	NA	NA	NA	NA	NA
AT-1	5/6/2004	4-6'	yes	no	NA	NA	NA	NA	NA	NA	NA	60000	NA	NA	NA	NA	NA
AT-2	5/6/2004	0-2'	yes	no	NA	NA	NA	NA	NA	NA	NA	44000	NA	NA	NA	NA	NA
AT-2	5/6/2004	4-6'	yes	no	NA	NA	NA	NA	NA	NA	NA	12000	NA	NA	NA	NA	NA
AT-3	5/6/2004	0-2'	yes	no	NA	NA	NA	NA	NA	NA	NA	14000	NA	NA	NA	NA	NA
AT-3	5/6/2004	4-6'	yes	no	NA	NA	NA	NA	NA	NA	NA	35000	NA	NA	NA	NA	NA
SB-17	5/15/2007	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-18	5/15/2007	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-18	5/15/2007	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-19	5/15/2007	3-4'	no	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-80	8/20/2007	0-4'	yes	no	NA	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-81	8/20/2007	0-4'	no	no	NA	NA	NA	900	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-81	9/25/2008	4-6'	yes	no	NA	NA	NA	108	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-98	10/15/2007	2-4'	yes	no	NA	NA	NA	8.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-98A	11/30/2007	0-2'	yes	no	0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pulp Mill Area																	
R12	11/10/00	0.5-1.5'	no	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R12	11/10/00	1.5-3'	no	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R12	11/10/00	3-4.5'	no	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R12	11/10/00	5'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R13	11/10/00	1'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R13	11/10/00	2-3'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R13	11/10/00	3-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R13	11/10/00	4-4.5'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Table 3
Soil RCRA Metals Data
M-I/Kaukauna Utilities -02-45-548762
1130 Banta Court
Appleton, Wisconsin

Boring/Well Number	Sample Date	Sample Depth	Existing Sample Location (yes/no)	Sample Within Saturated Zone (yes/no)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Sulfur (mg/kg)	Iron (mg/kg)	Titanium (mg/kg)	Sodium (mg/kg)	Chloride (mg/kg)	pH (su)
NR 720.11 Table 2-Direct Contact		Non-Ind			0.039	NES	8	50	NES	NES	NES	NES	NES	NES	NES	NES	NES
U.S. EPA Region 3 Site Screening Levels-Direct Conta		Non-Ind			0.43	16000	78	NES	NES	390	390	NES	55000	NES	NES	NES	NES
Site Specific RCL-Direct Contact					5	NES	NES	200	NES	NES	NES	NES	NES	NES	NES	NES	NES
Site Specific RCL-Groundwater Pathway					NES	NES	NES	NES	NES	NES	NES	NES	NES	NES	NES	NES	NES
SB-56	7/2/07	0-1'	no	no	NA	NA	NA	580	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-57	7/2/07	2-3'	no	no	NA	NA	NA	29	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-58	7/2/07	1-2'	yes	no	NA	NA	NA	37	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-59	7/2/07	2-3'	no	no	NA	NA	NA	270	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-60	7/2/07	1-2'	no	no	NA	NA	NA	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-60	9/25/08	4-6'	yes	no	NA	NA	NA	950	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-61	7/2/07	2-3'	no	no	NA	NA	NA	54	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-62	7/2/07	2-3'	yes	no	NA	NA	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-63	7/2/07	1-2'	no	no	NA	NA	NA	350	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-64	7/2/07	2-3'	yes	no	NA	NA	NA	29	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-82	8/20/07	0-4'	yes	no	NA	NA	NA	22	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-83	8/20/07	0-4'	no	no	NA	NA	NA	450	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-85	8/20/07	0-4'	no	no	NA	NA	NA	890	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-86	8/20/07	0-4'	no	no	NA	NA	NA	450	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-87A	11/30/07	0-2'	yes	no	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-89	8/20/07	0-4'	yes	no	NA	NA	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-90	8/20/07	0-4'	yes	no	NA	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-91	8/20/07	0-4'	no	no	NA	NA	NA	540	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-92	8/20/07	0-4'	yes	no	NA	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-93	8/20/07	0-4'	no	no	NA	NA	NA	510	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-94	8/20/07	0-4'	no	no	NA	NA	NA	220	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-95	8/20/07	0-4'	yes	no	NA	NA	NA	16	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-97	10/15/07	2-4'	yes	no	NA	NA	NA	8.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-100	10/15/07	2-4'	yes	no	NA	NA	NA	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-119	11/30/07	0-2	no	no	5.6	NA	NA	36	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-121	11/30/07	0-2'	no	no	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-122	11/30/07	0-2'	no	no	5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-122	11/30/07	6-8'	yes	yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41	5/16/07	0-1'	no	no	2.2	38	0.39	340	0.032	0.54	0.38	NA	NA	NA	NA	NA	NA
MW-42	5/16/07	1-2'	no	no	4	85	1.3	780	0.22	<0.56	<0.70	NA	NA	NA	NA	NA	NA
Front Warehouse																	
SP-01	3/7/2001	NA	no	no	NA	NA	NA	24	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-01	3/21/2001	1.2'	no	no	NA	NA	NA	1030	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-01	3/21/2001	1.5'	no	no	NA	NA	NA	<6	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-01	3/21/2001	3.7'	no	no	NA	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-02	3/21/2001	1.5'	no	no	NA	NA	NA	<6	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-02	3/21/2001	2.5'	no	no	NA	NA	NA	56	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-03	3/21/2001	0-4'	no	no	NA	NA	NA	235	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-03	3/21/2001	4-8'	yes	no	NA	NA	NA	9.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-04	3/21/2001	8-10'	yes	yes	NA	NA	NA	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-05	3/21/2001	4-8'	yes	no	NA	NA	NA	28	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-06	3/21/2001	8-9'	yes	yes	NA	NA	NA	39	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-1	2/27/2001	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-1	2/27/2001	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-2	2/26/2001	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-2	2/26/2001	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-3	2/27/2001	0-4'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-3	2/27/2001	4-8'	yes	no	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Table 3
Soil RCRA Metals Data
M-I/Kaukauna Utilities -02-45-548762
1130 Banta Court
Appleton, Wisconsin

Boring/Well Number	Sample Date	Sample Depth	Existing Sample Location (yes/no)	Sample Within Saturated Zone (yes/no)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Sulfur (mg/kg)	Iron (mg/kg)	Titanium (mg/kg)	Sodium (mg/kg)	Chloride (mg/kg)	pH (su)
NR 720.11 Table 2-Direct Contact		Non-Ind			0.039	NES	8	50	NES	NES	NES	NES	NES	NES	NES	NES	NES
U.S. EPA Region 3 Site Screening Levels-Direct Conta		Non-Ind			0.43	16000	78	NES	NES	390	390	NES	55000	NES	NES	NES	NES
Site Specific RCL-Direct Contact					5	NES	NES	200	NES	NES	NES	NES	NES	NES	NES	NES	NES
Site Specific RCL-Groundwater Pathway					NES	NES	NES	NES	NES	NES	NES	NES	NES	NES	NES	NES	NES
TCLP Sample Resutls																	
Transformer Area - Plant																	
T1	6/23/1999	0-4'			<7.0	0.45	<0.0042	<0.082	<0.25	<8.2	<0.0041	NA	NA	NA	NA	NA	NA
T2	6/23/1999	0-4'			<7.0	0.55	0.0074	<0.082	<0.25	<8.2	<0.0041	NA	NA	NA	NA	NA	NA
T3	6/23/1999	0-4'			<7.0	0.32	<0.0042	<0.082	<0.25	8.7	<0.0041	NA	NA	NA	NA	NA	NA
SE13 Boring	5/20/03	4-8'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE13 Boring	5/20/03	8-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE13 E. Side of Excavation	5/20/03	4-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE13 N-NE. Side of Excavation	5/20/03	4-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE13 S-SW. Side of Excavation	5/20/03	4-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE13 W. Side of Excavation	5/20/03	4-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE13 SE. Side of Excavation	5/20/03	4-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE13 Excavation Bottom	5/20/03	12-13'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE13 Stockpile	5/20/03	0-4'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE3 Boring	5/20/03	8-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE3 NE Side of Excavation	5/20/03	8-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE3 NW Side of Excavation	5/20/03	8-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE3 S Side of Excavation	5/20/03	8-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE3 Excavation Bottom	5/20/03	12-13'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE3 Stockpile	5/20/03	0-8'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE3 W Side of Excavation	5/30/03	8-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE3 NW Side of Excavation	5/30/03	8-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE3 NE Side of Excavation	5/30/03	8-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE3 E Side of Excavation	5/30/03	8-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE3 SW Side of Excavation	5/30/03	8-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SE3 NW Side of Excavation	5/30/03	8-12'			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
**-Indicates samples analyzed for TCLP (results reported as mg/l*
a-Indicates sample was analyzed by ECCS via on-site mobile laboratory
Miller = Miller Engineers and Scientists
TA = Sample analyzed by Test America
TSC = The Sustainable Company
STS = STS Consultants
RCRA = Resource Conservation Recovery Act
ppm/v = parts per million per volume
mg/kg = milligrams per kilogram
NES = no established standard
***Red/Bold** = Standard exceedence*
Underline = Exceedence of the Hexavalent Chromium Groundwater Pathway SSRCL

existing, unsat As > 5ppm OR Pb > 200ppm

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Table 3a

Soil VOC Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin
Revision 1

PAHs NA

PAHs NA

Area of Concern								UST #1 (cont.)				UST #2												UST #3	
Boring/Well Number			NR 720.09	NR 746.06		NT2		NT3		NT4		ST1			ST2		ST3	ST3	ST-5		SB-9	UST-1	UST-2
Sample Date		Groundwater	Generic	Table 1	Table 2	8/1/01		8/1/01		8/1/01		8/1/01			8/1/01		8/1/01	8/1/01	8/11/03		5/15/07	5/6/04	5/6/04
Sample Depth	Units	Pathway	RCLs	(Product)	(Contact)	0-4'	4-8'	0-4'	4-8'	0-4'	4-8'	0-4'	0-4' DUP	4-8'	0-4'	4-8'	0-4'	0-4'	0-4'	4-8'	8-9'	7.6-8.6'	6.8-8.8'
Existing Sample (yes/no)						yes	yes	yes	yes	yes	yes	no	no	yes	no	yes	no	no	no	yes	yes	yes	yes
														clay									clay
Diesel Range Organics	mg/kg	-	100/250	NES	NES	249	<5.9	NA	NA	334	<5.9	183	NA	188	5440	<6.4	<5.4	<5.4	180	NA	NA	53	150
Gasoline Range Organics	mg/kg	-	100/250	NES	NES	<6.0	<5.9	NA	NA	<6.0	<5.9	<6.5	NA	<5.5	110	<6.4	<5.4	<5.4	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	µg/kg	-	NES	[83000]	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
1,2-Dichloroethane	µg/kg	-	4.9	[600]	*540*	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
1,2-Dichloropropane	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
1,3,5-Trimethylbenzene	µg/kg	-	NES	[11000]	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
Benzene	µg/kg	-	5.5	[8500]	*1100*	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
Ethylbenzene	µg/kg	-	2900	[4600]	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
Fluorotrichloromethane	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<26	NA	NA
Hexachlorobutadiene	µg/kg	-	NES	NES	NES	<44	<41	<39	<44	<42	<41	<46	<37	<39	<41	<45	<38	<41	NA	NA	<25	NA	NA
Isopropylbenzene	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
Methylene Chloride	µg/kg	-	NES	NES	NES	<62	<59	<55	<62	<60	<59	<65	<53	<55	<59	<64	<54	<59	NA	NA	<25	NA	NA
Methyl-tert-butyl-ether (MTBE)	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
Naphthalene	µg/kg	400	NES	[2700]	NES	<31	57	59	<31	155	<30	44	68	78	249	<32	<27	71	NA	NA	<25	NA	NA
n-Butylbenzene	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<40	NA	NA
n-Propylbenzene	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
p-Isopropyltoluene	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
sec-Butylbenzene	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
Styrene	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
tert-Butylbenzene	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
Tetrachloroethene (PCE)	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
Toluene	µg/kg	-	1500	[38000]	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
trans-1,2-Dichloroethene (DCE)	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
trans-1,3-Dichloropropene	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
Trichloroethene (TCE)	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
Vinyl Chloride	µg/kg	-	NES	NES	NES	<31	<30	<28	<31	<30	<30	<33	<27	<28	<30	<32	<27	<29	NA	NA	<25	NA	NA
Xylenes, total	ug/kg	-	4100	[42000]	NES	<44	<41	<39	<44	<42	<41	<46	<37	<39	<41	<45	<38	<41	NA	NA	<75	NA	NA

NOTES:
TSC = The Sustainable Company
STS = STS Consultants
NR = Not Reported
VOCs = Volatile Organic Compounds
mg/kg = milligrams per kilogram
ppm/v = parts per million per volume
µg/kg = micrograms per kilogram
NA = not analyzed
NES = no established standard
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
+ - Stock Pile Sample
# - Sample removed during excavation activities (interval from 0 to 4 ft bgs)
Red/Bold = Wisconsin Administrative Code NR 720.09 Generic Residual Contaminant Level (RCL) exceedence
Blue/Italic = Wisconsin Administrative Code NR 746.06 Table 2 (Direct Contact) exceedence
[Violet/Bold] = Wisconsin Administrative Code NR 746.06 Table 1 (Product Indicator) exceedence

Existing soil, unsat w/ RCL exceedance

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Checked by: RPS Approved by: ___

Table 3a

Soil VOC Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin
Revision 1

PAHs NA | PAHs NO | PAHs NO | PAHs NA

Area of Concern						Jammer House		Jammer House (cont.)												Former Telulah Canal				
Boring/Well Number			NR 720.09	NR 746.06		JH-1A	JH-2	JH-3A	JH-4	JH-5A	JH-6	JH-7	JH-8	JH-9	JH-10	JH-11	SB-26	SB-27	SB-27	SB-28	SB-8	SB-8	SB-8	SB-11	SB-11
Sample Date		Groundwater	Generic	Table 1	Table 2	8/1/01	8/1/01	8/1/01	8/1/01	8/1/01	8/1/01	8/1/01	8/1/01	8/1/01	8/1/01	8/1/01	5/16/07	5/16/07	5/16/07	5/16/07	5/16/07	5/16/07	5/16/07	5/15/07	5/15/07
Sample Depth	Units	Pathway	RCLs	(Product)	(Contact)	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	5-6'	2-3.5'	4-5'	5-6'	1-2'	5-6'	7-8'	4-6'	0-2'
Existing Sample (yes/no)						no	yes	no	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Diesel Range Organics	mg/kg	-	**100/250**	NES	NES	<5.9	<5.4	<5.9	<5.5	33	24	13	14	**7470**	24	**255**	**1300**	24	**980**	4.1	NA	NA	NA	NA	NA
Gasoline Range Organics	mg/kg	-	**100/250**	NES	NES	<5.9	<5.4	<6.4	<5.5	<5.4	<5.3	<5.4	<5.3	**150**	<5.2	<5.3	NA	<5.9	<2.6	<2.8	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	µg/kg	-	NES	**[83000]**	NES	<29	<27	<32	<27	<27	<27	<27	<27	1400	<26	95	NA	<25	<25	<25	<25	<25	<25	<29	140
1,2-Dichloroethane	µg/kg	-	**4.9**	**[600]**	*540*	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	[illegible]	NA	NA	NA	NA	<25	<25	<25	<29	<29
1,2-Dichloropropane	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	29	NA	NA	NA	NA	<25	<25	<25	<29	<29
1,3,5-Trimethylbenzene	µg/kg	-	NES	**[11000]**	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	35	NA	<25	[illegible]	<25	<25	<25	<25	<29	45
Benzene	µg/kg	-	**5.5**	**[8500]**	*1100*	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	<29	NA	<25	<25	<25	<25	<25	<25	<29	<29
Ethylbenzene	µg/kg	-	**2900**	**[4600]**	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	37	NA	<25	<25	<25	<25	<25	<25	<29	<29
Fluorotrichloromethane	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	<29	NA	NA	NA	NA	<25	<25	<25	<29	<29
Hexachlorobutadiene	µg/kg	-	NES	NES	NES	<41	<38	<44	<38	<38	<37	<38	<37	<110	<36	<41	NA	NA	NA	NA	<26	<26	<26	<31	<31
Isopropylbenzene	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	[illegible]	<26	<29	NA	NA	NA	NA	<25	<25	<25	<29	<29
Methylene Chloride	µg/kg	-	NES	NES	NES	457	334	335	<55	193	<53	119	<53	152	93	116	NA	NA	NA	NA	<25	<25	<25	<29	<29
Methyl-tert-butyl-ether (MTBE)	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	<29	NA	<25	<25	<25	<25	<25	<25	<29	<29
Naphthalene	µg/kg	400	NES	**[2700]**	NES	<29	<27	69	<27	<27	<27	<27	<27	714	<26	150	NA	NA	NA	NA	<25	<25	<25	<29	250
n-Butylbenzene	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	<29	NA	NA	NA	NA	<40	<40	<40	<47	<47
n-Propylbenzene	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	179	<26	[illegible]	NA	NA	NA	NA	<25	<25	<25	<29	40
p-Isopropyltoluene	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	120	<26	35	NA	NA	NA	NA	<25	<25	<25	<29	<29
sec-Butylbenzene	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	1100	<26	<29	NA	NA	NA	NA	<25	<25	<25	<29	38
Styrene	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	<29	NA	NA	NA	NA	<25	<25	<25	<29	<29
tert-Butylbenzene	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	<29	NA	NA	NA	NA	<25	<25	<25	<29	<29
Tetrachloroethene (PCE)	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	<29	NA	NA	NA	NA	<25	<25	<25	<29	<29
Toluene	µg/kg	-	**1500**	**[38000]**	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	<29	NA	<25	42	<25	<25	<25	<25	<29	140
trans-1,2-Dichloroethene (DCE)	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	162	NA	NA	NA	NA	<25	<25	<25	<29	<29
trans-1,3-Dichloropropene	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	<29	NA	NA	NA	NA	<25	<25	<25	<29	<29
Trichloroethene (TCE)	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	<29	NA	NA	NA	NA	<25	<25	<25	<29	<29
Vinyl Chloride	µg/kg	-	NES	NES	NES	<29	<27	<32	<27	<27	<27	<27	<27	<81	<26	<29	NA	NA	NA	NA	<25	<25	<25	<29	<29
Xylenes, total	ug/kg	-	**4100**	**[42000]**	NES	<41	<38	<44	<38	<38	<37	<38	<37	<110	<36	301	NA	<75	<75	<75	<75	<75	<75	<87	320

NOTES:
TSC = The Sustainable Company
STS = STS Consultants
NR = Not Reported
VOCs = Volatile Organic Compounds
mg/kg = milligrams per kilogram
ppm/v = parts per million per volume
µg/kg = micrograms per kilogram
NA = not analyzed
NES = no established standard
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
+ - Stock Pile Sample
# - Sample removed during excavation activities (interval from 0 to 4 ft bgs)
Red/Bold = Wisconsin Administrative Code NR 720.09 Generic Residual Contaminant Level (RCL) exceedence
Blue/Italic = Wisconsin Administrative Code NR 746.06 Table 2 (Direct Contact) exceedence
[Violet/Bold] = Wisconsin Administrative Code NR 746.06 Table 1 (Product Indicator) exceedence

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Checked by: RPS Approved by: ___

Table 3a

Soil VOC Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin
Revision 1

Area of Concern						Front Warehouse (cont.)														M-I Warehouse & Tank Farm		
Boring/Well Number			NR 720.09	NR 746.06		B-02	B-02	B-03/0-4'	B-03/4-8'	B-04/8-10'	B-05/4-8'	B-06/8-9'	SB-20A	SB-21A	SB-22A	SB-29	SB-30	MW-44	MW-46	MW-36B	390N-West Sidewall	375N-West Sidewall
Sample Date		Groundwater	Generic	Table 1	Table 2	3/21/01	3/21/01	3/21/01	3/21/01	3/21/01	3/21/01	3/21/01	5/15/07	5/15/07	5/15/07	5/15/07	5/15/07	5/16/07	5/16/07	5/16/07	5/27/03	5/27/03
Sample Depth	Units	Pathway	RCLs	(Product)	(Contact)	1.5'	2.5'	0-4'	4-8'	8-10'	4-8'	8-9'	2-3'	2-3'	1-2'	2-3'	1-2'	6-8'	0-1'	6-8'	5'	14'
Existing Sample (yes/no)						no	no	no	yes	yes	yes	yes	yes	no	yes	yes	yes	yes	no	yes	yes	yes
Diesel Range Organics	mg/kg	-	100/250	NES	NES	NA	NA	21	<6.5	<6.2	33	<6.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline Range Organics	mg/kg	-	100/250	NES	NES	<10	23	<8	<6.5	<6.7	<6.6	<6.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	µg/kg	-	NES	[83000]	NES	210	2400	<40	<32	<31	<33	<31	<25	<25	<25	<25	<25	<25	<25	110	<37	<31
1,2-Dichloroethane	µg/kg	-	4.9	[600]	*540*	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<37	<31
1,2-Dichloropropane	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<37	<31
1,3,5-Trimethylbenzene	µg/kg	-	NES	[11000]	NES	82	800	<40	<32	<31	<33	<31	<25	<25	<25	<25	<25	<25	<25	<34	<37	<31
Benzene	µg/kg	-	5.5	[8500]	*1100*	220	640	<40	<32	<31	<33	<31	<25	<25	<25	<25	<25	<25	<25	<34	<37	<31
Ethylbenzene	µg/kg	-	2900	[4600]	NES	130	760	<40	<32	<31	<33	<31	<25	<25	<25	<25	<25	<25	<25	<34	<37	<31
Fluorotrichloromethane	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<37	<31
Hexachlorobutadiene	µg/kg	-	NES	NES	NES	NA	NA	<56	<45	<43	<46	<43	NA	NA	NA	NA	NA	<36	NA	<36	<52	<43
Isopropylbenzene	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<37	<31
Methylene Chloride	µg/kg	-	NES	NES	NES	NA	NA	<80	<65	<62	<66	<61	NA	NA	NA	NA	NA	<25	NA	<34	<74	<61
Methyl-tert-butyl-ether (MTBE)	µg/kg	-	NES	NES	NES	<25	<25	<40	<32	<31	<33	<31	<25	<25	<25	<25	<25	<25	<25	<34	<37	<31
Naphthalene	µg/kg	400	NES	[2700]	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	120	<37	<31
n-Butylbenzene	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<40	NA	<55	<37	<31
n-Propylbenzene	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<37	<31
p-Isopropyltoluene	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	3420	1470
sec-Butylbenzene	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<37	<31
Styrene	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<37	<31
tert-Butylbenzene	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<37	<31
Tetrachloroethene (PCE)	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<37	<31
Toluene	µg/kg	-	1500	[38000]	NES	94	380	<40	<32	<31	<33	<31	<25	<25	<25	<25	<25	<25	<25	3700	<37	<31
trans-1,2-Dichloroethene (DCE)	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<37	<31
trans-1,3-Dichloropropene	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<37	<31
Trichloroethene (TCE)	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<37	<31
Vinyl Chloride	µg/kg	-	NES	NES	NES	NA	NA	<40	<32	<31	<33	<31	NA	NA	NA	NA	NA	<25	NA	<34	<52	<43
Xylenes, total	ug/kg	-	4100	[42000]	NES	550	3200	<56	<45	<43	<46	<43	<75	<75	<75	<75	<75	<75	32	250	<52	<43

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+ - Stock Pile Sample
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Blue/Italic = Wisconsin Administrative Code NR 746.06 Table 2 (Direct Contact) exceedence
[Violet/Bold] = Wisconsin Administrative Code NR 746.06 Table 1 (Product Indicator) exceedence

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Soil PAH Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Boring/Well Number		Groundwater	RR-519-97 Table Direct Contact	SSRCL	MW-36B	MW-38#	MW-38	MW-40	MW-41#	MW-42#	MW-44	MW-44	MW-45#	MW-48	SB-1#	SB-2#	SB-3#	SB-4	SB-8
Sample Date					5/16/07	5/16/07	516/07	5/16/07	5/16/07	5/16/07	5/16/07	5/16/07	5/16/07	5/15/07	5/16/07	5/16/07	5/16/07	5/16/07	5/16/07
Sample Depth	Units	Pathway	Non-Ind		6-8'	1-2'	6-8'	1-2'	0-1'	1-2'	1-2'	6-8'	2-4'	1-2'	2-3'	2-3'	2-3'	2-3'	1-2'
Existing Sample (yes/no)					yes	no	yes	yes	no	no	yes	yes	no	yes	no	no	no	yes	yes
1-Methylnaphthalene	µg/kg	23000	1100000	NA	56	74	160	<4.0	<3.5	5.8	<3.6	<3.3	98	[illegible]	33	94	51	<3.6	<3.7
2-Methylnaphthalene	µg/kg	20000	600000	NA	66	90	200	<4.1	<3.6	6.7	<3.7	<3.4	110	23	40	110	45	<3.7	<3.8
Acenaphthene	µg/kg	38000	900000	NA	<4.5	5.0	6.3	<3.9	<3.5	<3.7	<3.5	<3.3	170	5.5	21	9.7	100	<3.5	<3.6
Acenaphthylene	µg/kg	700	18000	NA	<4.4	22	4.9	<3.8	<3.4	7.9	<3.4	<3.2	59	<3.4	300	13	630	<3.4	<3.5
Anthracene	µg/kg	3000000	5000000	NA	<5.4	36	20	<4.7	<4.1	[illegible]	<4.2	<3.9	570	12	250	36	760	<4.2	<4.3
Benzo(a)anthracene	µg/kg	17000	88	**900**	10	64	41	<7.0	<6.2	[illegible]	<6.3	<5.8	**980**	29	640	82	**2000**	<6.3	<6.4
Benzo(a)pyrene	µg/kg	48000	8.8	**90**	9.1	75	36	4.7	3.8	[illegible]	<3.4	<3.1	**900**	22	**1200**	**100**	**2200**	<3.4	<3.5
Benzo(b)fluoranthene	µg/kg	360000	88	NA	6.8	84	29	4.3	3.7	29	<3.3	<3.1	720	25	1400	90	1700	<3.3	<3.4
Benzo(ghi)perylene	µg/kg	6800000	1800	NA	6.7	53	19	<4.7	[illegible]	23	<4.2	<3.9	450	15	820	53	1300	<4.2	<4.3
Benzo(k)fluoranthene	µg/kg	870000	880	NA	7.8	81	28	4.3	3.9	25	<3.6	<3.4	750	21	1100	73	2000	<3.6	<3.7
Chrysene	µg/kg	37000	8800	NA	12	86	48	<5.8	<5.1	31	<5.1	<4.8	910	59	740	98	2200	<5.2	<5.3
Dibenz(a,h)anthracene	µg/kg	38000	8.8	**90**	<4.2	15	7.0	<3.6	<3.2	5.5	<3.3	<3.0	**170**	6.8	**250**	18	**390**	<3.3	<3.3
Fluoranthene	µg/kg	500000	600000	NA	21	120	84	10	5.7	30	<3.4	<3.2	1900	56	580	170	4400	<3.4	<3.5
Fluorene	µg/kg	100000	600000	NA	<5.2	5.9	6.8	<4.5	<4.0	<4.2	<4.0	<3.7	160	<4.1	28	12	260	<4.1	<4.1
Indeno(1,2,3-cd)pyrene	µg/kg	680000	88	NA	4.2	42	16	<3.3	3.1	15	<3.0	<2.8	420	11	770	38	1100	<3.0	<3.0
Naphthalene	µg/kg	400	20000	NA	47	56	120	<5.3	<4.7	<4.9	<4.7	<4.4	83	15	33	59	71	<4.8	<4.8
Phenanthrene	µg/kg	1800	18000	NA	34	91	130	7.0	3.6	19	<3.5	<3.2	1600	67	200	130	2300	<3.5	<3.6
Pyrene	µg/kg	8700000	500000	NA	20	100	69	6.6	4.8	30	<2.9	<2.7	1500	45	640	130	3200	<2.9	<3.0

NOTES:
PAH = Polycyclic Aromatic Hydrocarbons
ppm/v = parts per million per volume
µg/kg = micrograms per kilogram
NA = not analyzed
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
H = Preservation, Extraction or Analysis performed past hold time.
Q = analyte detected between the limit of detection (LOD) and limit of quantitation (LOQ)
N = Spiked sample recovery not within control limits.
K = Detection limit may be elevated due to the presence of an unrequested analyte
** = precision not within control limits*
& = laboratory control spike recovery not within control limit
# - Sample removed during excavation activities (interval from 0 to 4 ft bgs)
Blue/Italic = RR-519-97 Table 1 (suggested groundwater pathway RCL) exceedence
Red/Italic= RR-519-97 Table 1 (suggested non-industrial direct contact pathway RCL) exceedence
***Red/Bold** = SSRCL (site specific RCL) exceedence*

remaining soil > DC RCL @ 0-4ft OR > GW RCL regardless of depth

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Soil PAH Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Boring/Well Number			RR-519-97 Table		SB-8	SB-8	SB-9#	SB-11#	SB-11	SB-12	SB-12	SB-13	SB-14	SB-14	SB-15#	SB-16	SB-16	SB-18#	SB-18	SB-23	SB-24	SB-25	SB-26
Sample Date		Groundwater	Direct Contact	SSRCL	5/16/07	5/16/07	5/15/07	5/15/07	5/15/07	5/15/07	5/15/07	5/15/07	5/15/07	8/20/07	5/15/07	5/15/07	5/15/07	5/15/07	5/15/07	5/14/07	5/14/07	5/16/07	5/16/07
Sample Depth	Units	Pathway	Non-Ind		5-6'	7-8'	8-9'	0-2'	4-6'	1-2'	6-7'	2-3'	0-1'	0-4'	1-2'	2-3'	7-8'	0-4'	4-8'	4"-15"	1.5'-3'	1.5-3'	5-6'
Existing Sample (yes/no)					yes	yes	yes	no	yes	yes	yes	yes	yes	yes	no	yes	yes	no	yes	yes	yes	yes	yes
1-Methylnaphthalene	µg/kg	*23000*	*1100000*	NA	<4.2	<4.6	110	180	36	<3.3	<3.2	<3.5	<3.4	1.8 Q	120	15	<4.2	<3.4	<3.5	<3.5	<3.4	26	<3.5
2-Methylnaphthalene	µg/kg	*20000*	*600000*	NA	<4.3	<4.7	160	230	37	<3.4	<3.3	<3.6	<3.5	2.6 Q	140	17	<4.3	<3.5	4.2	<3.6	<3.5	30	<3.6
Acenaphthene	µg/kg	*38000*	*900000*	NA	<4.1	<4.5	270	7.7	58	<3.2	<3.2	<3.5	<3.3	<1.7	14	<3.6	6.4	<3.3	<3.4	<3.5	<3.3	<3.1	<3.4
Acenaphthylene	µg/kg	*700*	*18000*	NA	<4.0	<4.3	<7.5	17	9.1	<3.1	<3.1	<3.4	<3.2	1.9	130	<3.5	<4.0	<3.2	<3.3	<3.4	<3.2	3.1	<3.3
Anthracene	µg/kg	*3000000*	*5000000*	NA	<4.9	<5.4	550	31	190	<3.8	<3.8	<4.2	<3.9	2.2 Q	230	<4.3	10	<4.0	<4.1	<4.1	<4.0	6.1	<4.1
Benzo(a)anthracene	µg/kg	*17000*	*88*	**900**	<7.3	<8.0	*390*	56	*170*	<5.7	<5.6	<6.2	<5.9	22	*360*	13	25	<6.0	<6.1	<6.2	<6.0	17	<6.1
Benzo(a)pyrene	µg/kg	*48000*	*8.8*	**90**	<4.0	<4.3	**330**	*52*	**150**	<3.1	<3.1	<3.3	<3.2	21	**450**	*16*	*23*	4.5	<3.3	<3.3	<3.2	*18*	<3.3
Benzo(b)fluoranthene	µg/kg	*360000*	*88*	NA	<3.9	<4.2	*260*	*99*	*110*	<3.0	<3.0	<3.3	<3.1	35	*840*	11	16	4.6	<3.3	<3.3	<3.2	17	<3.2
Benzo(ghi)perylene	µg/kg	*6800000*	*1800*	NA	<4.9	<5.4	160	100	74	<3.8	<3.8	<4.2	4.6	18 N	230	10	14	4.4	<4.1	<4.1	<4.0	11	<4.1
Benzo(k)fluoranthene	µg/kg	*870000*	*880*	NA	<4.2	<4.6	260	70	140	<3.3	<3.3	<3.6	<3.4	30	530	14	20	5.0	<3.5	<3.6	<3.4	16	<3.5
Chrysene	µg/kg	*37000*	*8800*	NA	<6.0	<6.6	380	97	170	<4.7	<4.6	<5.1	<4.8	26	560	18	27	5.3	<5.1	<5.1	<4.9	23	<5.0
Dibenz(a,h)anthracene	µg/kg	*38000*	*8.8*	**90**	<3.8	<4.2	*51*	*20*	*83*	<3.0	<2.9	<3.3	<3.1	7.4	*83*	<3.3	<3.8	<3.1	<3.2	<3.2	<3.1	3.2	<3.2
Fluoranthene	µg/kg	*500000*	*600000*	NA	<4.0	<4.3	1200	130	480	<3.1	<3.1	<3.4	3.3	25	620	16	61	7.6	6.0	<3.4	<3.2	31	<3.3
Fluorene	µg/kg	*100000*	*600000*	NA	<4.7	<5.2	300	7.1	67	<3.7	<3.6	<4.0	<3.8	<1.9	13	<4.1	<4.7	<3.8	<4.0	<4.0	<3.8	<3.6	<3.9
Indeno(1,2,3-cd)pyrene	µg/kg	*680000*	*88*	NA	<3.5	<3.8	*140*	33	68	<2.7	2.7	<2.9	<2.8	15	*220*	7.3	10	<2.8	<2.9	<2.9	<2.8	9.0	<2.9
Naphthalene	µg/kg	*400*	*20000*	NA	<5.5	<6.1	260	130	28	<4.3	<4.3	<4.7	<4.4	1.7 Q	110	9.4	<5.5	<4.5	<4.6	<4.7	<4.5	19	<4.6
Phenanthrene	µg/kg	*1800*	*18000*	NA	<4.1	<4.4	1700	210	560	<3.2	<3.1	<3.4	<3.3	9.8	210	16	38	5.8	8.8	<3.4	<3.3	29	<3.4
Pyrene	µg/kg	*8700000*	*500000*	NA	<3.4	<3.7	870	85	350	<2.6	<2.6	<2.9	3.1	24	490	16	66	5.4	4.5	<2.9	<2.8	27	<2.8

NOTES:
PAH = Polycyclic Aromatic Hydrocarbons
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** = precision not within control limits*
& = laboratory control spike recovery not within control limit
# - Sample removed during excavation activities (interval from 0 to 4 ft bgs)
Blue/Italic = RR-519-97 Table 1 (suggested groundwater pathway RCL) exce
Red/Italic= RR-519-97 Table 1 (suggested non-industrial direct contact pathw
***Red/Bold** = SSRCL (site specific RCL) exceedence*

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Table 3b

Soil PAH Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Boring/Well Number			RR-519-97 Table		SB-31#	SB-32#	SB-33	SB-34	SB-35#	SB-36#	SB-37	SB-38	SB-47#	SB-48	SB-49#	SB-50	SB-54	SB-57#	SB-58	SB-60#	SB-61#	SB-63#	SB-64	SB-66#	SB-67
Sample Date		Groundwater	Direct Contact	SSRCL	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	7/2/07	8/20/07	8/20/07
Sample Depth	Units	Pathway	Non-Ind		0-1'	2-3'	2-3'	1-2'	2-3'	1-2'	1-2'	2-3'	1-2'	2-3'	2-3'	2-3'	1-2'	2-3'	1-2'	1-2'	2-3'	1-2'	2-3'	0-4'	0-4'
Existing Sample (yes/no)					no	no	yes	yes	no	no	yes	yes	no	yes	no	yes	yes	no	yes	no	no	no	yes	no	yes
1-Methylnaphthalene	µg/kg	23000	1100000	NA	180	33	5.2 Q	1000	4.3 Q	710	<3.1	10 Q	740	240	24	96	3.7 Q	48	<3.5	94	1100	5.6 Q	13	98 Q	18
2-Methylnaphthalene	µg/kg	20000	600000	NA	220	36	6.4 Q	1200	4.4 Q	820	<3.2	13	820	300	31	110	4.9 Q	55	<3.6	110	1100	6.8 Q	16	95 Q	20
Acenaphthene	µg/kg	38000	900000	NA	83	<3.2	<3.5	8 Q	<3.2	37	<3.1	<3.1	17	14	5.6 Q	<3.2	<3.8	4.9 Q	<3.4	18	1000	<3.3	<3	180	2.9 Q
Acenaphthylene	µg/kg	700	18000	NA	170	3.6 Q	<3.4	17	3.5 Q	280	<3	<3	13	57	15	6.8 Q	<3.2	12	<3.3	33	300	12	<2.9	43 Q	3.1 Q
Anthracene	µg/kg	3000000	5000000	NA	520	8.4 Q	<4.2	36	6.3 Q	750	<3.7	11 Q	100	100	34	15 Q	<4	33	<4.1	120	3600	18	<3.6	670	13
Benzo(a)anthracene	µg/kg	17000	88	**900**	**960**	17 Q	<6.3	98	18 Q	**1200**	<5.5	15 Q	150	63	85	25	<6	81	<6.1	240	**6600**	50	<5.4	**1400**	28
Benzo(a)pyrene	µg/kg	48000	8.8	**90**	**1100**	14	<3.4	63	19	**1300**	<3	18	220	84	88	25	<3.2	**95**	5.8 Q	**250**	**6000**	58	5.7 Q	**1400**	27
Benzo(b)fluoranthene	µg/kg	360000	88	NA	780	15	<3.3	62	15	1700	<2.9	14	240	100	70	36	<3.2	87	4.2 Q	230	4100	51	7.9 Q	1100	23
Benzo(ghi)perylene	µg/kg	6800000	1800	NA	690	11 Q	<4.2	38	13	610	<3.7	12 Q	110	100	71	20	<4	53	5.6 Q	140	2200	40	7.1 Q	720	16
Benzo(k)fluoranthene	µg/kg	870000	880	NA	820	13	<3.6	48	19	1300	<3.2	11	190	63	88	22	<3.4	78	6.1 Q	240	5300	50	6.2 Q	1200	24
Chrysene	µg/kg	37000	8800	NA	1100	22	<5.2	150	19	1800	<4.5	16	220	95	92	36	<4.9	94	8.1 Q	250	6800	52	9.7 Q	1500	29
Dibenz(a,h)anthracene	µg/kg	38000	8.8	**90**	**180**	3.3 Q	<3.3	16	3.8 Q	**240**	<2.8	3.3 Q	39	28	21	6.2 Q	<3.1	17	<3.1	48	**840**	11	<2.8	**230**	5.2 Q
Fluoranthene	µg/kg	500000	600000	NA	2600	33	<3.4	110	28	1400	4.3 Q	29	260	170	190	44	5.6	180	12	600	17000	98	7.3 Q	3800	60
Fluorene	µg/kg	100000	600000	NA	160	3.8 Q	<4	15	<3.7	56	<3.5	<3.6	29	13	8.8 Q	<3.6	<3.8	8.3 Q	<3.9	23	1200	<3.7	<3.4	160	2.8 Q
Indeno(1,2,3-cd)pyrene	µg/kg	680000	88	NA	510	8.4 Q	<3	22	10	550	<2.6	3.7 Q	250	50	54	14	<2.8	45	3.1 Q	120	2100	30	3.8 Q	640	13
Naphthalene	µg/kg	400	20000	NA	210	20	<4.7	580	<4.4	490	<4	9.6 Q	430	180	26	57	<4.5	37	<4.6	73	1200	6.8 Q	11 Q	63 Q	12
Phenanthrene	µg/kg	1800	18000	NA	2000	52	<3.5	550	27	710	4.3 Q	23	600	230	120	78	5.6 Q	130	8.4 Q	390	14000	54	12	2200	42
Pyrene	µg/kg	8700000	500000	NA	2300	27	<2.9	110	27	2400	4.6 Q	23	190	130	140	34	4.2 Q	130	10	410	14000	84	7.1 Q	3000	48

NOTES:
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Soil PAH Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Boring/Well Number			RR-519-97 Table		SB-68	SB-69	SB-70#	SB-71	SB-72	SB-73	SB-74	SB-75#	SB-76	SB-77	SB-78#	SB-79	SB-84	SB-86#	SB-87	SB-88	SB-94#	SB-95
Sample Date		Groundwater	Direct Contact	SSRCL	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07	8/20/07
Sample Depth	Units	Pathway	Non-Ind		0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'	0-4'
Existing Sample (yes/no)					yes	yes	no	yes	yes	yes	yes	no	yes	yes	no	yes	yes	no	yes	yes	no	yes
1-Methylnaphthalene	µg/kg	23000	1100000	NA	28 K	12	190	50	<1.6	<1.7	<1.6	1800	2.9 Q	340	39 Q	22	16	7.6	8.5	440	8.6	28
2-Methylnaphthalene	µg/kg	20000	600000	NA	35 K	13	160	54	<1.7	<1.8	<1.7	2300	3.2 Q	410	43 Q	36	18	8.7	9.8	540	11	36
Acenaphthene	µg/kg	38000	900000	NA	<6.4 K	<1.8	400	<1.8	<1.8	<2.0	<1.9	66	3.9 Q	7.3	69	<1.8	<1.7	2.8 Q	<1.7	13	2.0 Q	<1.9
Acenaphthylene	µg/kg	700	18000	NA	8.6 QK	2.5 Q	450	<1.9	<2.0	<2.1	<2.1	55	<1.7	15	70	<2.0	2.9 Q	6.7	<1.9	15	3.7 Q	<2.1
Anthracene	µg/kg	3000000	5000000	NA	14QK	3.3 Q	2400	2.2 Q	<2.2	<2.3	<2.2	73	7.3	23	430	3.0 Q	4.5 Q	16	<2.0	28	8.7	4.3 Q
Benzo(a)anthracene	µg/kg	17000	88	900	30 K	6.6 Q	5100	9.5	3.5 Q	<2.3	<2.3	210	4.2 Q	57	1200	7.1 Q	11	33	2.7 Q	67	22	9.1
Benzo(a)pyrene	µg/kg	48000	8.8	90	40 K	7.4	5000	8.9	4.0 Q	<2.2	<2.1	270	1.9 Q	58	1400	6.9	13	42	2.9 Q	60	25	8.8
Benzo(b)fluoranthene	µg/kg	360000	88	NA	87 K	8	3700	8.9	4.1 Q	<2.2	<2.1	610	2.5 Q	70	1200	8.3	11	37	3.4 Q	65	22	7.7
Benzo(ghi)perylene	µg/kg	6800000	1800	NA	28 K	5.3 Q	2900	6.1 Q	2.4 Q	<2.4	<2.3	220	1.9 Q	52	920	5.5 Q	7.7	25	2.4 Q	61	12	4.8 Q
Benzo(k)fluoranthene	µg/kg	870000	880	NA	85 K	6.6 Q	3900	7.3	3.9 Q	<2.1	<2.0	440	2.5 Q	65	1200	6.2 Q	12	38	3.4 Q	42	25	7.7
Chrysene	µg/kg	37000	8800	NA	56 K	7.4 Q	5000	12	4.7 Q	<2.5	<2.4	350	4.4 Q	74	1300	8.6	12	35	3.5 Q	84	22	11
Dibenz(a,h)anthracene	µg/kg	38000	8.8	90	11 QK	<2.3	890	<2.2	<2.2	<2.4	<2.3	79	<1.9	14	260	<2.3	2.4 Q	7.6	<2.1	14	3.8 Q	<2.3
Fluoranthene	µg/kg	500000	600000	NA	76 K	9.9	12000	13	8.2	<2.3	<2.2	240	6.7	100	3100	12	21	76	4.9 Q	110	47	21
Fluorene	µg/kg	100000	600000	NA	<6.8 K	<2.0	640	<1.9	<2.0	<2.1	<2.0	44	6.4	11	96	<2.0	<1.8	3.5 Q	<1.8	26	2.0 Q	2.2 Q
Indeno(1,2,3-cd)pyrene	µg/kg	680000	88	NA	27 K	4.1 Q	2400	4.6 Q	<2.2	<2.3	<2.2	180	<1.8	33	780	3.7 Q	6.1 Q	19	<2.0	36	10	3.8 Q
Naphthalene	µg/kg	400	20000	NA	25 K	7.9	16	30	<1.4	<1.5	<1.4	1300	2.0 Q	220	94	21	11	6.6	6	290	14	21
Phenanthrene	µg/kg	1800	18000	NA	49 K	11	[illegible]	31	8.7 Q	<2.3	<2.2	800	9.4	230	1600	23	22	47	7.2	300	34	27
Pyrene	µg/kg	8700000	500000	NA	52 K	8.9	11000	[illegible]	6.2 Q	<2.4	<2.3	270	5.7 Q	90	2600	10	17	60	3.9 Q	110	42	16

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Soil PAH Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Boring/Well Number			RR-519-97 Table		SB-96A#	SB-99	SB-100	SB-101	SB-102	SB-103	SB-104#	SB-105	SB-106	SB-108	SB-109#	SB-110	SB-111#	SB-112#	SB-115	SB-116
Sample Date		Groundwater	Direct Contact	SSRCL	11/30/07	10/15/07	10/15/07	10/15/07	10/15/07	10/15/07	10/15/07	10/15/07	10/15/07	11/30/07	12/11/07	12/11/07	12/11/07	12/11/07	11/30/07	11/30/07
Sample Depth	Units	Pathway	Non-Ind		2-4'	2-4'	2-4'	2-4'	2-4'	2-4'	2-4'	2-4'	2-4'	2-4'	0-4'	0-4'	0-4'	0-4'	2-4'	2-4'
Existing Sample (yes/no)					no	yes	yes	yes	yes	yes	no	yes	yes	yes	no	yes	no	no	yes	yes
1-Methylnaphthalene	µg/kg	*23000*	*1100000*	NA	19	360	<1.5	170	<1.6	20	240	[illegible]	<1.6	<1.7	450H	76H	25H	32QH	61	<1.4
2-Methylnaphthalene	µg/kg	*20000*	*600000*	NA	24	410	<1.6	190	<1.7	28	300	13	<1.7	<1.7	540H	93H	33H	39H	85	2.0 Q
Acenaphthene	µg/kg	*38000*	*900000*	NA	9.4	15	<1.8	3.4 Q	<1.9	2.5 Q	380	8.6	<1.8	<1.9	40H	48H	7.2H	33QH	17	<1.6
Acenaphthylene	µg/kg	*700*	*18000*	NA	6.0 Q	23	<1.9	6.9	<2.0	7.2	610	2.4 Q	<2.0	<2.1	36H	20H	17H	410H	62	<1.8
Anthracene	µg/kg	*3000000*	*5000000*	NA	27	52	<2.1	10	<2.2	10	1000	28	<2.2	<2.2	110H	50H	39H	420H	15 Q	<2.0
Benzo(a)anthracene	µg/kg	*17000*	*88*	**900**	65	54	<2.1	20	<2.2	26	4400	56	<2.2	<2.2	*160* H	76H	*97* H	**940**H	7.0 Q	<1.9
Benzo(a)pyrene	µg/kg	*48000*	*8.8*	**90**	*62*	*32*	<2.0	*15*	<2.1	22	5300	*48*	<2.1	<2.1	**110**H	*87* H	**93**H	**1100**H	5.3 Q	<1.9
Benzo(b)fluoranthene	µg/kg	*360000*	*88*	NA	59 Q	35	<2.0	17	<2.1	26	4200	49	<2.1	<2.2	*170* H	*120* H	78H	*970* H	<43	<18
Benzo(ghi)perylene	µg/kg	*6800000*	*1800*	NA	32	17	<2.2	14	<2.3	16	3200	28	<2.3	<2.3	66H	81H	50H	550H	<4.9	<2.0
Benzo(k)fluoranthene	µg/kg	*870000*	*880*	NA	54	30	<1.9	11	<2.0	22	3500	34	<2.0	<2.1	83H	94H	79H	*960* H	8.1 Q	<1.8
Chrysene	µg/kg	*37000*	*8800*	NA	71	65	<2.3	28	<2.4	27	4400	58	<2.4	<2.5	180H	95H	93H	990 H	11 Q	<2.2
Dibenz(a,h)anthracene	µg/kg	*38000*	*8.8*	**90**	*10*	6.6 Q	<2.2	4 Q	<2.3	5.1 Q	930	8.5	<2.2	<2.3	*33* H	*25* H	*22* H	**240** H	<4.9	<2.0
Fluoranthene	µg/kg	*500000*	*600000*	NA	170	120	2.8Q	31	3.1 Q	49	11000	130	<2.2	<2.3	350H	220H	170H	1700H	73	<2.0
Fluorene	µg/kg	*100000*	*600000*	NA	10	15	<1.9	3.7 Q	<2.0	3.8 Q	530	9.5	<2.0	<2.0	50H	39H	7.6H	82H	13 Q	<1.8
Indeno(1,2,3-cd)pyrene	µg/kg	*680000*	*88*	NA	27	11	<2.1	7.1	<2.2	14	*2600*	23	<2.2	<2.2	11H	65H	43H	*510H*	<4.7	<2.0
Naphthalene	µg/kg	*400*	*20000*	NA	21	240	<1.3	95	<1.4	17	*450*	9.9	<1.4	<1.4	390H	140H	33H	43H	*940*	<1.2
Phenanthrene	µg/kg	*1800*	*18000*	NA	130	400	2.8	10	3.8 Q	33	*6500*	110	<2.1	<2.2	600H	180H	77H	870H	130	<1.9
Pyrene	µg/kg	*8700000*	*500000*	NA	170	100	2.8	28	2.8 Q	41	9900	98	<2.3	<2.4	260H	200H	150H	1400H	63	<2.1

NOTES:
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Contact Project Manager for Assistance

Table 3b

Soil PAH Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Boring/Well Number			RR-519-97 Table		SB-117	SB-119#	SB-121#	SB-123#	SB-127#	SB-128	SB-129	CF-1	CF-2	CF-3#	CF-4	CF-5#	CF-6#	CF-7#	CF-8#	CF-9#	CF-10#
Sample Date		Groundwater	Direct Contact	SSRCL	11/30/07	11/30/07	11/30/07	11/30/07	11/30/07	11/30/07	11/30/07	10/1/01	10/1/01	10/1/01	10/1/01	10/1/01	8/11/03	10/1/01	8/11/03	8/11/03	8/11/03
Sample Depth	Units	Pathway	Non-Ind		2-4'	0-2'	0-2'	2-4'	0-2'	2-4'	0-2'	0-4' 4-8'	0-4'	0-4'	0-4' 4-8'	0-4'	1-4'	0-4' 4-8'	1-4'	1-4'	1-4' 4-8'
Existing Sample (yes/no)					yes	no	no	no	no	yes	yes	yes yes	yes	no	yes yes	no	no	no yes	no	no	no yes
1-Methylnaphthalene	µg/kg	23000	1100000	NA	12	2.4 Q	2.1 Q	4.0 Q	560HN*	8.1H	2.3QH	<35 <39	82	194	<33 <36	<35	<370	<340 <37	<700	89	66 <8.6
2-Methylnaphthalene	µg/kg	20000	600000	NA	13	3.4 Q	2.6 Q	4.4 Q	700HN*	11H	3.9QH	<29 <32	120	412	<28 <30	221	<300	<280 <31	<580	99	76 <9.2
Acenaphthene	µg/kg	38000	900000	NA	<1.6	<1.8	<1.7	<2.1	1300HN*	<1.9H	2.3QH	<58 <85	<65	<61	<55 <60	<58	<610	<570 <67	<1200	<13	<13 <14
Acenaphthylene	µg/kg	700	18000	NA	<1.8	2.4 Q	6.2 Q	<2.3	60QH	<2.0H	<2.1H	<99 <110	<110	<100	<94 <100	<99	<1000	<970 <100	<2000	21	<21 <22
Anthracene	µg/kg	3000000	5000000	NA	<2.0	3.1 Q	13	<2.5	3600HN*	<2.2H	4.0QH	<5.8 <6.5	<6.5	<32	<5.5 <6	57	87	<57 <6.1	372	34	33 <14
Benzo(a)anthracene	µg/kg	17000	88	900	2.0 Q	6.1 Q	37	<2.5	4700HN*	<2.2H	8.9H	<5.8 <6.5	9[illegible]	388	<5.5 <6	454	415	433 <6.1	3020	74	90 <7.4
Benzo(a)pyrene	µg/kg	48000	8.8	90	<1.9	7.5	36	<2.4	4600HN*	<2.1H	7.7H	<5.8 <6.5	49	121	<5.5 <6	293	232	296 <6.1	3250	88	110 <7.4
Benzo(b)fluoranthene	µg/kg	360000	88	NA	<1.9	<19	50	<22	4500HN*	<2.1H	6.0QH	<5.8 <6.5	20	120	<5.5 <6	244	171	285 <6.1	2090	80	79 <8
Benzo(ghi)perylene	µg/kg	6800000	1800	NA	<2.0	5.5 Q	27	2.7 Q	1900HN*	<2.3H	4.0QH	<5.8 <6.5	14	28	<5.5 <6	116	146	251 <6.1	1630	53	55 <15
Benzo(k)fluoranthene	µg/kg	870000	880	NA	<1.8	6.4 Q	33	<2.3	4000HN*	<2.0H	7.1H	<5.8 <6.5	12	36	<5.5 <6	37	93	125 <6.1	1110	92	94 <11
Chrysene	µg/kg	37000	8800	NA	3.0 Q	7.0 Q	38	3.0 Q	5000HN*	<2.4H	9.1H	<5.8 <6.5	31	81	<5.5 <6	407	207	171 <6.0	1280	91	95 <8.5
Dibenz(a,h)anthracene	µg/kg	38000	8.8	90	<2.0	2.3 Q	9.9	<2.6	810HN*	<2.3H	<2.2H	<8.7 <9.7	<9.8	13	<8.3 <9	37	<91	<85 <9.2	546	15	17 <9.1
Fluoranthene	µg/kg	500000	600000	NA	2.6 Q	11	72	3.0 Q	17000HN*	<2.2H	7.7H	<12 <13	100	436	<11 <12	1060	573	513 <12	3140	100	150 <9.9
Fluorene	µg/kg	100000	600000	NA	<1.8	<1.9	<1.8	<2.3	1400HN*	<2.0H	2.2QH	<12 <13	<13	<12	<11 <12	19	<120	<110 <12	<240	<6.9	8.2 <7.4
Indeno(1,2,3-cd)pyrene	µg/kg	680000	88	NA	<2.0	3.9 Q	17	<2.5	1900HN*	<2.2H	3.2QH	<5.8 <6.5	25	79	<5.5 <6	110	159	262 <6.1	2090	48	46 <14
Naphthalene	µg/kg	400	20000	NA	7.3	2.8 Q	2.2 Q	2.5 Q	1200HN*	<2.3H	4.2QH	<35 <39	44	242	<33 <36	221	<370	<340 <37	<700	57	51 <9.2
Phenanthrene	µg/kg	1800	18000	NA	8.8	10	27	5.5 Q	19000HN*	6.4QH	12H	<5.8 <6.5	40	218	<5.5 <6	1040	317	182 <6.1	1150	97	100 <9.9
Pyrene	µg/kg	8700000	500000	NA	2.3 Q	10	65	3.0 Q	12000HN*	<2.3H	16H	<5.8 <6.5	27	194	<5.5 <6	780	500	376 <6.1	4410	110	150 <16

NOTES:
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Further remediation/investigation needed
Site reopened 09-20-2013
Contact Project Manager for Assistance.

Table 3b

Soil PAH Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Boring/Well Number			RR-519-97 Table		GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7	GP-8#	GP-9	GP-10#	GP-11	TR-1#	TR-2	TR-3	TR-4
Sample Date		Groundwater	Direct Contact	SSRCL	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	5/6/04	5/6/04	5/6/04	5/6/04
Sample Depth	Units	Pathway	Non-Ind		0-4' 4-8'	0-4' 4-8'	0-4' 4-8'	0-4' 4-8'	0-4' 4-8'	0-4' 4-8'	0-4' 4-8'	0-4' 4-8'	0-4' 4-8'	0-4'	0-4'	0-2' 4-6'	0-2' 4-6'	1-3'	0-2' 4-6' 6-8'
Existing Sample (yes/no)					yes yes	yes yes	yes yes	yes yes	yes yes	yes yes	yes yes	no yes	ye yes	no	yes	no yes	yes yes	yes	yes yes yes
1-Methylnaphthalene	µg/kg	*23000*	*1100000*	NA	<37 <34	<35 <36	<34 <35	<43 <39	<33 <39	<39 <33	<36 <38	97 <36	<35 <36	268	<34	140 58	37 21	<15	<8.1 <7.4 530
2-Methylnaphthalene	µg/kg	*20000*	*600000*	NA	<30 <29	<30 <30	<28 <30	<36 <32	<28 <33	<27 <32	<30 <32	874 <30	<29 <30	1520	<29	150 74	47 27	<17	<8.7 <7.9 610
Acenaphthene	µg/kg	*38000*	*900000*	NA	<61 <57	<59 <59	<57 <59	<71 <64	<56 <66	<54 <64	<59 <64	271 <60	<58 <59	513	<57	<12 <12	<12 <16	<24	<13 <12 700
Acenaphthylene	µg/kg	*700*	*18000*	NA	<100 <98	<100 <100	<96 <100	<120 <110	<95 <110	<92 <110	<100 <110	<100 <100	<98 <100	<89	<97	56 <20	<20 <26	<40	<21 <19 670
Anthracene	µg/kg	*3000000*	*5000000*	NA	<6.1 <5.7	<5.9 <5.9	<5.7 <5.9	<7.1 <6.4	<5.6 <6.6	<5.4 <6.4	<5.9 <6.4	259 <6.0	<5.8 <5.9	268	<5.7	69 33	15 32	<24	<13 <12 2100
Benzo(a)anthracene	µg/kg	*17000*	*88*	**900**	<6.1 <5.7	<5.9 <5.9	<5.7 <5.9	<7.1 <6.4	<5.6 13	6.1 <6.4	<5.9 <6.4	*761* <6.0	<5.8 <5.9	**1280**	<5.7	*150* 63	16 68	<13	<7 <6.3 **2200**
Benzo(a)pyrene	µg/kg	*48000*	*8.8*	**90**	<6.1 <5.7	<5.9 <5.9	<5.7 <5.9	<7.1 <6.4	<5.6 12	12 <6.4	<5.9 <6.4	**530** <6.0	<5.8 <5.9	**2100**	<5.7	**200** *60*	*18* *60*	<13	<7 <6.3 **1900**
Benzo(b)fluoranthene	µg/kg	*360000*	*88*	NA	<6.1 <5.7	<5.9 <5.9	<5.7 <5.9	<7.1 <6.4	<5.6 <6.6	6 <6.4	<5.9 <6.4	*406* <6.0	<5.8 <5.9	*1750*	<5.7	*220* 44	14 47	<14	<7.5 <6.8 *1600*
Benzo(ghi)perylene	µg/kg	*6800000*	*1800*	NA	<6.1 <5.7	<5.9 <5.9	<5.7 <5.9	<7.1 <6.4	<5.6 <6.6	7.3 <6.4	<5.9 <6.4	157 <6.0	<5.8 <5.9	1830	<5.7	110 33	<13 30	<26	<14 <13 1100
Benzo(k)fluoranthene	µg/kg	*870000*	*880*	NA	<6.1 <5.7	<5.9 <5.9	<5.7 <5.9	<7.1 <6.4	<5.6 <6.6	<5.4 <6.4	<5.9 <6.4	172 <6.0	<5.8 <5.9	666	<5.7	190 51	<9.9 58	<20	<10 <9.5 *1700*
Chrysene	µg/kg	*37000*	*8800*	NA	<6.1 <5.7	<5.9 <5.9	<5.7 <5.9	<7.1 <6.4	<5.6 10	7.3 <6.4	<5.9 <6.4	517 <6.0	<5.8 <5.9	1880	<5.7	200 67	37 74	<15	8.7 <7.3 2200
Dibenz(a,h)anthracene	µg/kg	*38000*	*8.8*	**90**	<6.1 <8.6	<8.9 <8.9	<8.5 <8.9	<11 <9.7	<8.5 <9.8	<8.2 <9.7	<8.9 <9.5	*50* <9.0	<5.8 <5.9	**268**	<8.6	*40* *9.8*	<8.1 *12*	<16	<8.6 <7.8 **320**
Fluoranthene	µg/kg	*500000*	*600000*	NA	19 <11	<12 <12	<11 <12	<14 <13	<11 22	<11 <13	<12 <13	1480 <12	<12 <12	1670	<11	210 130	21 140	<18	14 <8.4 7100
Fluorene	µg/kg	*100000*	*600000*	NA	<12 <11	<12 <12	<11 <12	<14 <13	<11 <13	<11 <13	<12 <13	39 <12	<12 <12	<12	<11	13 10	8.8 13	<13	<7 <6.3 2300
Indeno(1,2,3-cd)pyrene	µg/kg	*680000*	*88*	NA	<6.1 <5.7	<5.9 <5.9	<5.7 <5.9	<7.1 <6.4	<5.6 <6.6	9.8 <6.4	<5.9 <6.4	*382* <6.0	<5.8 <5.9	*1980*	<5.7	*99* 29	<12 28	<24	<13 <12 *990*
Naphthalene	µg/kg	*400*	*20000*	NA	<37 <34	<35 <36	<34 <35	<43 <39	<33 <39	<39 <33	<36 <38	<37 <36	<35 <36	*595*	<34	76 45	26 26	<17	<8.7 <7.9 300
Phenanthrene	µg/kg	*1800*	*18000*	NA	16 <5.7	<5.9 <5.9	<5.7 <5.9	<7.1 <6.4	<5.6 13	<5.4 <6.4	<5.9 <6.4	690 <6.0	6.6 <5.9	688	<5.7	210 130	54 98	<18	10 <8.4 8000
Pyrene	µg/kg	*8700000*	*500000*	NA	<6.1 <5.7	<5.9 <5.9	<5.7 <5.9	<7.1 <6.4	<5.6 20	11 <6.4	<5.9 <6.4	1160 <6.0	8.9 <5.9	1520	<5.7	230 110	34 120	<29	<15 <14 4700

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Table 2
Soil Verification Sampling Results
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

soil > SSRCL for lead or B(a)P

SSRCL 200 mg/kg 5.5ug/kg 90 B(a)P ug/kg 5.0mg/kg

Exposure Area	Verification Sample ID	Analysis: Lead	Benzene	PAH*	Arsenic	Notes	Sample Depths	Sample Status
B	B-19	2.1 mg/kg	<25 ug/kg			sidewall sample	1.5 (discrete benzene + lead)	
(COMM Petro Site)	B-29	9.6 mg/kg	<25 ug/kg			sidewall sample	1.5 (discrete benzene + lead)	
	B-34	3.4 mg/kg				sidewall sample	2.5 (discrete lead)	
	B-35	4.8 mg/kg				sidewall sample	2.5 (discrete lead)	
	B-41 remains			163 ug/kg		sidewall sample	2-4 (discrete PAH)	
	B-45 remains			373 ug/kg		sidewall sample	2-4 (discrete PAH)	
C								
	C-5	6.6 mg/kg		<4.3 ug/kg		sidewall sample	2.5-3.5	
	C-7	2.5 mg/kg		<3.7 ug/kg		new boring	2.5-3.5	
	C-10 excv	427 mg/kg		191 ug/kg		sidewall sample	0.5-1.5	Sample removed, replacement verification sample taken from 'clean' backfill. Sampling Grid Cell over 50% removed by excavation.
	C-10A	<1.3 mg/kg		<1.9 ug/kg		excavation sample "clean", new C-10 sample	0.5-1.5	
	C-16	5.5 mg/kg		<4.3 ug/kg		new boring	2.5-3.5	
	C-21	5.3 mg/kg		<4.3 ug/kg		sidewall sample	2.5-3.5	
	SB-126 excv	8.2 mg/kg		1620 ug/kg		existing sample location	2.5-3.5 [2.0-4.0]	Sample removed, replacement verification sample taken from sidewall at SB-126A.
	SB-126A			<4.3 ug/kg		resample of SB-126	2.5-3.5 [2.0-4.0]	
	C-36 remains	223 mg/kg		41.9 ug/kg		sidewall sample	1.5-2.5	
	C-37	5.1 mg/kg		10 ug/kg		sidewall sample	0.5-1.5	
	C-38 excv	398 mg/kg		91.1 ug/kg		sidewall sample	0.5-1.5	Sample removed, replacement verification sample taken from sidewall at C-38A.
	C-38A	6 mg/kg		NS		C-38 removed, new side wall sample	0.5-1.5	
	C-40 excv	956 mg/kg		64.1 ug/kg		sidewall sample	2.5-3.5	Sample removed, replacement verification sample taken from 'clean' backfill. Sampling Grid Cell over 50% removed by excavation.
	C-40A	<1.3 mg/kg		<1.9 ug/kg		excavation sample "clean", new C-40 sample	2.5-3.5	
	C-41	< 1.3 mg/kg		<1.9 ug/kg		excavation sample "clean"		
	SB-125/GP-11	29 mg/kg		<5.7 ug/kg		existing sample location	[2.0-4.0] [0.0-4.0]	
	C-46 excv	790 mg/kg		11.9 ug/kg		sidewall sample	1.5-2.5	Sample removed, replacement verification sample taken from existing data at SB-90.
	SB-90	130 mg/kg				existing sample location	[0-4.0]	
D	SB-101	24.8 mg/kg		15 ug/kg		existing sample location	2.5-3.5 [2.0-4.0]	
	D-13 remains	379 mg/kg		38.7 ug/kg		sidewall sample	0.5-1.5	
	D-15	< 1.3 mg/kg		<1.9 ug/kg		excavation sample "clean"		
	D-16 remains	444 mg/kg		92.4 ug/kg		sidewall sample	1.5-2.5	
	D-25	42.7 mg/kg		47.4 ug/kg		new boring location	2.5-3.5	
	D-27 remains	253 mg/kg		71.5 ug/kg		sidewall sample	1.5-2.5	
	D-29 excv	170 mg/kg		408 ug/kg		sidewall sample	2.5-3.5	Sample removed, replacement verification sample taken from sidewall at D-29A.
	D-29A			5.4 ug/kg		D-29 removed, new sidewall sample	2.5-3.5	
	D-30	< 1.3 mg/kg		<1.9 ug/kg		excavation sample "clean"		
	D-41	< 1.3 mg/kg		<1.9 ug/kg		excavation sample "clean"		
	D-44	67.3 mg/kg		<12.5 ug/kg		sidewall sample	1.5-2.5	
	D-50	3.4 mg/kg		<11.3 ug/kg		sidewall sample	1.5-2.5	
	D-51				4.1 mg/kg	sidewall sample	0-2 (discrete arsenic)	
	D-52				2.8 mg/kg	sidewall sample	0-2 (discrete arsenic)	
	D-48	1.7 mg/kg		<3.8 ug/kg		sidewall sample	2.5-3.5	
	SB-58	37 mg/kg		5.8 ug/kg		existing sample location	[1.0-2.0]	
E	SB-84	1.5 mg/kg		13 ug/kg		existing sample location	1.5-2.5 [0.0-4.0]	
	SB-117	6.2 mg/kg		<1.9 ug/kg		existing sample location	2.5-3.5 [2.0-4.0]	
	E-20	2.1 mg/kg		<4.1 ug/kg		sidewall sample	0.5-1.5	
	E-22	8.0 mg/kg		<3.9 ug/kg		sidewall sample	2.5-3.5	
	E-24	< 1.3 mg/kg		<1.9 ug/kg		canal sample "clean"	0.5-1.5	
	E-28 excv	63.1 mg/kg		529 ug/kg	4.8 mg/kg	sidewall sample	1.5-2.5 (discrete arsenic + random)	Sample removed, replacement verification sample taken from 'clean' backfill. Sampling Grid Cell over 50% removed by excavation.
	E-28A	<1.3 mg/kg		<1.9 ug/kg		excavation sample "clean", new E-28 sample	1.5-2.5	
	E-29	5.1 mg/kg		<4.3 ug/kg		new boring location	1.5-2.5	
	E-30 REMAINS	262 mg/kg		21[illegible] ug/kg	[illegible] mg/kg	sidewall sample	0.5-1.5 (discrete arsenic + random)	Arsenic sample was removed
	SB-54	62.4 mg/kg		3.2 [illegible] ug/kg		existing sample location	[0.5-1.5]	
	E-43	47.8 mg/kg		3.5 ug/kg	3.6 mg/kg	sidewall sample	1.5-2.5 (discrete arsenic + random)	
	E-45	153 mg/kg		8.0 mg/kg		sidewall sample	0.5-1.5	
	E-35				2.7 mg/kg	sidewall sample	0-1 (discrete arsenic)	
	E-40 excv				8.8 mg/kg	sidewall sample	0-1 (discrete arsenic)	Arsenic sample was removed
	E-40A excv				13[illegible] mg/kg	sidewall sample	0-1 (discrete arsenic)	Arsenic sample was removed
	E-040B				[illegible] mg/kg	sidewall sample	0-1 (discrete arsenic)	
	E-57	2.1 mg/kg		<4.3 ug/kg		sidewall sample	2.5-3.5	
	SB-99	47 mg/kg		[illegible] ug/kg		existing sample location	[2.0-4.0]	
F	F-3	41.5 mg/kg		[illegible] ug/kg		new boring	2.5-3.5	
	SB-8	[illegible] mg/kg		8.5 ug/kg		existing sample location	[1.0-2.0]	
	F-12 excv	70.4 mg/kg		437 ug/kg		sidewall sample	2.5-3.5	Sample removed, replacement verification sample taken from 'clean' backfill. Sampling Grid Cell over 50% removed by excavation.
	F-12A	<1.3 mg/kg		<1.9 ug/kg		excavation sample "clean", new F-12 sample	2.5-3.5	
	F-13	6.4 mg/kg		<4.1 ug/kg		sidewall sample	1.5-2.5	
	F-31 excv	38 mg.kg		271 ug/kg		sidewall sample	1.5-2.5	Sample removed, replacement verification sample taken from 'clean' backfill. Sampling Grid Cell over 50% removed by excavation.
	F-31A	<1.3 mg/kg		<1.9 ug/kg		excavation sample "clean", new F-31 sample	1.5-2.5	
	SB-41	6.7 mg/kg		31.8 ug/kg		existing sample location	1.5-2.5 [2.0-3.0]	
	F-39	17.8 mg/kg		45.5 ug/kg		sidewall sample	1.5-2.5	
	F-40				3.0 mg/kg	sidewall sample	0-4 (discrete arsenic)	
	F-41	6.6 mg/kg		<4.7 ug/kg	4.1 mg/kg	sidewall sample	0-4 (discrete arsenic + random)	
	F-44	< 1.3 mg/kg		<1.9 ug/kg		2003 excavation sample "clean"	2.5-3.5	
	F-47	< 1.3 mg/kg		<1.9 ug/kg		2003 excavation sample "clean"	1.5-2.5	
	F-49	< 1.3 mg/kg		<1.9 ug/kg		2003 excavation sample "clean"	0.5-1.5	
	F-65	< 1.3 mg/kg		<1.9 ug/kg		2003 excavation sample "clean"	2.5-3.5	
	F-66	< 1.3 mg/kg		<1.9 ug/kg		2003 excavation sample "clean"	2.5-3.5	
P	SB-71			8.9 ug/kg		existing sample location	[0.0-4.0]	
	P-11 remains			160 ug/kg		sidewall sample	0.5-1.5	
	P-6 remains			178 ug/kg		new sample location	0.5-1.5	
	SB-72			4 ug/kg		existing sample location	[0.0-4.0]	
	SB-37			<3 ug/kg		existing sample location	[1.0-2.0]	
	P-19			81.3 ug/kg		sidewall sample	2.5-3.5	
	SB-108			<2.1 ug/kg		existing sample location	[2.0-4.0]	
	P-42 excv			309 ug/kg		sidewall sample	1.5-2.5	Sample removed, replacement verification sample taken from existing data at SB-103.
	SB-103			28 ug/kg		existing sample location	2.0-4.0	
	P-48 remains			111 ug/kg		sidewall sample	1.5-2.5	
	P-58 excv			254 ug/kg		sidewall sample	0.5-1.5	Sample removed, replacement verification sample taken from 'clean' backfill. Sampling Grid Cell over 50% removed by excavation.
	P-58A			<1.9 ug/kg		excavation sample "clean", new P-58 sample	0.5-1.5	
	P-62 excv			695 ug/kg		sidewall sample	1.5-2.5	Sample removed, replacement verification sample taken from 'clean' backfill. Sampling Grid Cell over 50% removed by excavation.
	P-62A			<1.9 ug/kg		excavation sample "clean", new P-62 sample	1.5-2.5	
	P-63			11.7 ug/kg		sidewall sample	2.5-3.5	
	P-64 excv			659 ug/kg		sidewall sample	0.5-1.5	Sample removed, replacement verification sample taken from 'clean' backfill. Sampling Grid Cell over 50% removed by excavation.
	P-64A			<1.9 ug/kg		excavation sample "clean", new P-64 sample	0.5-1.5	
	Totals	63	2	78	11			

Notes
x: Indicates samples to be collected. — true in planning stages
*: As represented by benzo(a)pyrene concentrations
[ ] : Indicates sampled interval at existing sample locations.

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

RMT

Table 1
Telulah Canal Sediment Investigation - August 2004
Metals Results

ANALYTE	UNITS[1]	SED - 1	SED - 2	SED - 3	SED - 4	SED - 5	TEC[2]	MEC[3]	PEC[4][5]
Arsenic	mg/kg	3.0	5.0	NA	NA	1.0	9.8	21.4	33
Barium	mg/kg	34	75	NA	NA	17	--	--	--
Cadmium	mg/kg	0.97 Q	1.7	NA	NA	0.14 Q	0.99	3.0	5.0
Chromium (total)	mg/kg	25	56	57	14	8.6	43	76.5	110
Lead	mg/kg	60	130	NA	NA	10	36	83	130
Mercury	mg/kg	0.44	1.5	NA	NA	0.12	0.18	0.64	1.1
Selenium	mg/kg	< 1.4	< 1.4	NA	NA	< 0.52	--	--	--
Silver	mg/kg	0.31	1.6	NA	NA	0.053 Q	1.6	1.9	2.2

Footnotes:

(1) All results are reported on a dry-weight basis.

(2) Concentrations equal to or below the TEC represent concern level 1: no risk or limited risk.

(3) Concentrations above the TEC and equal to or below the MEC represent concern level 2: some possible risk.

(4) Concentrations above the MEC and equal to or below the PEC represent concern level 3: some probable risk.

(5) Concentrations above the PEC represent concern level 4: probable risk.

Notes:

NA = Not analyzed.

Q = This analyte was detected between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ).

-- = Not established.

TEC = Threshold effect concentration.

MEC = Midpoint effect concentration.

PEC = Probable effect concentration.

Prepared by: CRJ 8/30/04, TRS 9/16/04

Checked by: MKW 8/31/04, CRJ 9/20/04

Further remediation/investigation needed.
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Table 4
Revision-2
Groundwater Metals Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Last four rounds.

	Dissolved Iron (mg/L)	Dissolved Arsenic (ug/L)	pH (s.u.)	Dissolved Barium (mg/L)	Dissolved Lead (ug/L)	Dissolved Mercury (ug/L)	Dissolved Selenium (ug/L)	Dissolved Silver (ug/L)	Dissolved Cadmium (ug/L)	Sodium (mg/L)	Chloride (mg/L)	Total Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Color Units (color units)
NR 140 PAL	0.15	1	NES	0.4	1.5	0.2	10	10	0.5	Increase of 10	125	NES	NES	7.5
NR 140 ES	0.3	10	NES	2	15	2	50	50	5	NES	250	NES	NES	15
MW-1/1R		MW-1 was abandoned on 09/12/2001 and replaced with MW-1R on 9/17/2001. MW-1R was abandoned on 4/28/2003												
Date		Top of Screen ():	707.97/706.70				Screen Length ():			10 / 10				
6/21/2002	3.9	•	7.3	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	8.8	•	7.1	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	9.9	•	7.2	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	13	•	7.1	•	•	•	•	•	•	•	•	•	•	•
MW-1A		MW-1A was abandoned on 4/28/2003												
Date		Top of Screen:	698.00				Screen Length:			10				
6/21/2002	0.051	•	7.4	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	0.074	•	7.1	•	•	•	•	•	•	•	•	•	•	•
12/17/2002	0.088	•	7.1	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	0.25	•	7.1	•	•	•	•	•	•	•	•	•	•	•
MW-2/2R		MW-2 was abandoned on 4/23/2003 and replaced with MW-2R on 8/15/2006												
Date		Top of Screen ():	706.40/704.11				Screen Length ():			10 / 10				
2/2/2007	10	•	6.9	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	6.9	•	•	•	•	•	•	•	•	•	•	2,900
10/17/2007	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
1/7/2008	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
MW-2A/2AR		MW-2A was abandoned on 4/23/2003 and replaced with MW-2AR on 8/15/2006												
Date		Top of Screen ():	696.40/694.273				Screen Length ():			5/5				
2/2/2007	0.085 Q	•	7.0	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
MW-2B/2BR		MW-2B was abandoned on 4/23/2003 and replaced with MW-2BR on 8/15/2006												
Date		Top of Screen ():	683.60/679.71				Screen Length ():			7.5 / 5				
2/2/2007	0.52	•	7.2	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•	7.2	•	•	•	•	•	•	•	•	•	•	•
1/7/2008	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
MW-3		MW-3 was abandoned on 4/24/2003												
Date		Top of Screen:	707.70				Screen Length:			10				
6/25/2002	4.6	•	7.3	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	27	•	7.2	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	23	•	7.2	•	•	•	•	•	•	•	•	•	•	•
3/20/2003	37	•	7.1	•	•	•	•	•	•	•	•	•	•	•
MW-3A/AR		MW-3A was abandoned on 4/24/2003 and replaced with MW-3AR on 8/15/2006												
Date		Top of Screen ():	697.70/694.81				Screen Length ():			5/5				
2/1/2007	9.4	•	6.8	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	6.5	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	6.79	•	•	•	•	•	•	•	•	•	•	•
MW-3B		MW-3B was abandoned on 4/24/2003												
Date		Top of Screen:	684.90				Screen Length:			5				
6/25/2002	2.8	•	7.3	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	5.6	•	7.2	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	5.0	•	7.4	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	2.8	•	7.2	•	•	•	•	•	•	•	•	•	•	•
MW-4		MW-4 was abandoned on 4/23/2003												
Date		Top of Screen:	703.40				Screen Length:			10				
6/24/2002	[illegible]	•	7.4	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	0.12	•	[illegible]	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	<0.042	•	7.7	•	•	•	•	•	•	•	•	•	•	•
3/20/2003	0.24	•	7.5	•	•	•	•	•	•	•	•	•	•	•
MW-4A		MW-4A was abandoned on 4/23/2003												
Date		Top of Screen:	696.90				Screen Length:			5				
6/24/2002	0.11	•	7.6	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	0.071	•	7.5	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	0.042	•	7.5	•	•	•	•	•	•	•	•	•	•	•
3/20/2003	0.1[illegible]	•	7.6	•	•	•	•	•	•	•	•	•	•	•
MW-5		MW-5 was abandoned on 4/28/2003												
Date		Top of Screen:	709.40				Screen Length:			10				
6/25/2002	8.3	•	7.2	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	2.6	•	7.0	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	[illegible]	•	7.1	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	[illegible]	•	7.1	•	•	•	•	•	•	•	•	•	•	•
MW-5A		MW-5A was abandoned on 4/28/2003												
Date		Top of Screen:	699.60				Screen Length:			5				
6/25/2002	32	•	7.0	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	28	•	6.9	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	23	•	7.2	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	30	•	7.0	•	•	•	•	•	•	•	•	•	•	•
MW-6		MW-6 was abandoned on 11/11/2008												
Date		Top of Screen:	709.61				Screen Length:			10				
2/1/2007	0.34	•	7.1	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	9.8	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
1/9/2008	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
MW-6A		MW-6A was abandoned on 11/11/2008												
Date		Top of Screen:	697.65				Screen Length:			5				
4/24/2006	6.6 A	•	6.9	•	•	•	•	•	•	•	•	•	•	•
7/25/2006	8.7	•	6.9	•	•	•	•	•	•	•	•	•	•	•
8/17/2006	10	•	6.7	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	9.4	•	•	•	•	•	•	•	•	•	•	•

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Table 4
Revision-2
Groundwater Metals Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

	Dissolved Iron (mg/L)	Dissolved Arsenic (ug/L)	pH (s.u.)	Dissolved Barium (mg/L)	Dissolved Lead (ug/L)	Dissolved Mercury (ug/L)	Dissolved Selenium (ug/L)	Dissolved Silver (ug/L)	Dissolved Cadmium (ug/L)	Sodium (mg/L)	Chloride (mg/L)	Total Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Color Units (color units)
NR 140 PAL	0.15	1	NES	0.4	1.5	0.2	10	10	0.5	Increase of 10	125	NES	NES	7.5
NR 140 ES	0.3	10	NES	2	15	2	50	50	5	NES	250	NES	NES	15
MW-6B/6BR		MW-6B was replaced by MW-6BR on 11/2/1999. MW-6BR was abandoned on 11/11/2008												
Date		Top of Screen ():	685.70/684.44				Screen Length ():			7.5 / 7.5				
4/24/2006	4.1 A	•	6.6	•	•	•	•	•	•	•	•	•	•	•
7/25/2006	4.8	•	6.7	•	•	•	•	•	•	•	•	•	•	•
8/17/2006	4.6	•	7.1	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
MW-7A		MW-7A was abandoned on 11/11/2008												
Date		Top of Screen:	694.73				Screen Length:			5				
2/1/2007	6.6	•	7.0	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	9.7	25	6.7	•	4.8	•	•	•	•	•	•	•	•	•
10/17/2007	•	10	7.2	•	<0.25	•	•	•	•	•	•	•	•	•
1/8/2008	•	7.2	7.24	•	<0.22 C	•	•	•	•	•	•	•	•	•
MW-7B		MW-7B was abandoned on 11/11/2008												
Date		Top of Screen:	681.65				Screen Length:			7.5				
7/24/2006	1.3	•	7.2	•	•	•	•	•	•	•	•	•	•	•
8/17/2006	1.3	•	7.5	•	•	•	•	•	•	•	•	•	•	•
2/1/2007	1.9	•	7.5	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	7.1	•	•	•	•	•	•	•	•	•	•	•
MW-8A/8AR		MW-8A was abandoned on 9/12/01 and replaced with MW-8AR on 9/17/2001. MW-8AR was abandoned 4/2[illegible]/2003.												
Date		Top of Screen ():	696.43/696.1				Screen Length ():			[illegible]/5				
6/20/2002	0.51	•	7.3	•	•	•	•	•	•	•	•	•	•	•
9/24/2002	3.4	•	7.2	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	4.6	•	7.3	•	•	•	•	•	•	•	•	•	•	•
3/18/2003	5.0	•	7.2	•	•	•	•	•	•	•	•	•	•	•
MW-9/9R		MW-9 was abandoned on 4/24/2003 and replaced with MW-9R on 8/15/2006												
Date		Top of Screen ():	702.90/704.91				Screen Length ():			[illegible]/10				
1/30/2007	16	•	6.8	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	6.6	•	•	•	•	•	•	•	•	•	•	3,400
10/17/2007	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
1/7/2008	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
MW-9A/9AR		MW-9A was abandoned on 4/24/2003 and replaced with MW-9AR on 8/15/2006												
Date		Top of Screen ():	695.20/693.55				Screen Length ():			5				
1/30/2007	23	•	6.9	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
1/7/2008	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
MW-9B/BR		MW-9B was abandoned on [illegible]/2003 and replaced with MW-9BR on 8/15/2006												
Date		Top of Screen ():	68[illegible]10/679.89				Screen Length ():			[illegible]				
1/30/2007	3.5	•	6.[illegible]	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	6.6	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•	[illegible]	•	•	•	•	•	•	•	•	•	•	•
1/7/2008	•	•	6.6	•	•	•	•	•	•	•	•	•	•	•
MW-10		MW-10 was abandoned on 1[illegible]/7/200[illegible]												
Date		Top of Screen:	[illegible]3.9[illegible]				Screen Length:			10				
1/31/2007	[illegible]	•	6.9	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	[illegible]	•	•	•	•	•	•	•	•	•	•	•
10/16/2007	•	•	[illegible]	•	•	•	•	•	•	•	•	•	•	•
1/8/200[illegible]	•	7.3	6.7	•	•	•	•	•	•	•	•	•	•	•
MW-10A		MW-10A was abandoned on 11/[illegible]/2008												
Date		Top of Screen:	695.[illegible]				Screen Length:			5				
1/8/2008	[illegible]	[illegible]	6.5	•	•	•	•	•	•	•	•	•	•	•
4/21/2008	•	305	•	•	•	•	•	•	•	•	•	•	•	•
8/27/2008	•	347	•	•	•	•	•	•	•	•	•	•	•	•
10/7/2008	•	333	•	•	•	•	•	•	•	•	•	•	•	•
MW-11		MW-11 was abandoned on 11/4/2008												
Date		Top of Screen:	706.81				Screen Length:			10				
2/1/2007	0.16 Q	•	7.1	•	•	•	•	•	•	•	•	•	•	•
5/14/2007	•	•	10	•	•	•	•	•	•	•	•	•	•	•
10/16/2007	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	7.4	•	•	•	•	•	•	•	•	•	•	•
MW-11A		MW-11A was abandoned on 12/12/2008												
Date		Top of Screen:	697.27				Screen Length:			5				
5/14/2007	•	•	7.1	•	•	•	•	•	•	•	•	•	•	•
10/16/200[illegible]	•	•	7.3	•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	7.3	•	•	•	•	•	•	•	•	•	•	•
1[illegible]/13/200[illegible]	•	5.4 J	•	•	•	•	•	•	•	•	•	•	•	•
MW-12		MW-12 was abandoned on 11/11/2008												
Date	Screen Length:	Top of Screen:	710.47				Screen Length:			10				
[illegible]/1/2007		•	6.6	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	6.9	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
1/9/2008	•	•	6.5	•	•	•	•	•	•	•	•	•	•	•
MW-12A		MW-12A was abandoned on 11/11/2008												
Date		Top of Screen:	698.96				Screen Length:			5				
2/1/2007	<0.05	•	6.9	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	7.6	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
1/9/2008	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•

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	Dissolved Iron (mg/L)	Dissolved Arsenic (ug/L)	pH (s.u.)	Dissolved Barium (mg/L)	Dissolved Lead (ug/L)	Dissolved Mercury (ug/L)	Dissolved Selenium (ug/L)	Dissolved Silver (ug/L)	Dissolved Cadmium (ug/L)	Sodium (mg/L)	Chloride (mg/L)	Total Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Color Units (color units)
NR 140 PAL	0.15	1	NES	0.4	1.5	0.2	10	10	0.5	Increase of 10	125	NES	NES	7.5
NR 140 ES	0.3	10	NES	2	15	2	50	50	5	NES	250	NES	NES	15
MW-12B		MW-12B was abandoned on 11/11/2008												
Date		Top of Screen:		685.98				Screen Length:		7.5				
4/24/2006	3.8 A	•	6.6	•	•	•	•	•	•	•	•	•	•	•
8/18/2006	2.4	•	7.4	•	•	•	•	•	•	•	•	•	•	•
2/1/2007	4.3	•	6.6	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
MW-13/13R		MW-13 was abandoned on 4/24/2003 and replaced with MW-13R on 8/15/2006												
Date		Top of Screen ():		707.70/706.32				Screen Length ():		9/10				
1/31/2007	1.5	•	7.1	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	7.0	•	•	•	•	•	•	•	•	•	•	240
10/17/2007	•	•	6.9	•	•	•	•	•	•	•	•	•	•	•
1/9/2008	•	•	7.1	•	•	•	•	•	•	•	•	•	•	•
MW-13A/13AR		MW-13A was abandoned on 4/24/2003 and replaced with MW-13AR on 8/15/2006												
Date		Top of Screen ():		696.60/694.73				Screen Length ():		5/5				
1/31/2007	12	•	6.8	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•	6.9	•	•	•	•	•	•	•	•	•	•	•
1/9/2008	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
MW-14		MW-14 was abandoned on 4/25/2003												
Date		Top of Screen:		706.60				Screen Length:		[illegible]				
6/24/2002	7.0	•	7.4	•	•	•	•	•	•	•	•	•	•	•
9/26/2002	7.9	•	7.1	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	10	•	7.2	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	9.5	•	7.5	•	•	•	•	•	•	•	•	•	•	•
MW-14A		MW-14A was abandoned on 4/25/2003												
Date		Top of Screen:		695.40				Screen Length:		5				
6/24/2002	25	•	7.0	•	•	•	•	•	•	•	•	•	•	•
9/26/2002	31	•	6.9	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	25	•	7.1	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	28	•	7.1	•	•	•	•	•	•	•	•	•	•	•
MW-15		MW-15 was abandoned on 4/25/2003												
Date		Top of Screen:		708.10				Screen Length:		9				
6/20/2002	36	•	7.0	•	•	•	•	•	•	•	•	•	•	•
9/18/2002	17	•	6.8	•	•	•	•	•	•	•	•	•	•	•
12/17/2002	24	•	6.9	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	27	•	6.8	•	•	•	•	•	•	•	•	•	•	•
MW-15A		MW-15A was abandoned on 4/25/2003												
Date		Top of Screen:		698.60				Screen Length:		5				
6/20/2002	24	•	6.5	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	32	•	[illegible]	•	•	•	•	•	•	•	•	•	•	•
12/17/2002	23	•	[illegible]	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	25	•	6.6	•	•	•	•	•	•	•	•	•	•	•
MW-15B		MW-15B was abandoned on 4/25/2003												
Date		Top of Screen:		[illegible]				Screen Length:		5				
6/19/2002	[illegible]	•	7.3	•	•	•	•	•	•	•	•	•	•	•
9/18/2002	[illegible]	•	[illegible]	•	•	•	•	•	•	•	•	•	•	•
12/17/2002	4.[illegible]	•	[illegible]	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	[illegible]	•	7.0	•	•	•	•	•	•	•	•	•	•	•
MW-16		MW-16 was abandoned on 4/28/2003												
Date		Top of Screen:		708.7[illegible]				Screen Length:		9				
6/20/2002	8.2	•	7.0	•	•	•	•	•	•	•	•	•	•	•
9/24/2002	4.[illegible]	•	6.8	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	1.5	•	6.8	•	•	•	•	•	•	•	•	•	•	•
3/18/2003	1.8	•	6.7	•	•	•	•	•	•	•	•	•	•	•
MW-16A		MW-16A was abandoned on 4/28/2003												
Date		Top of Screen:		697.30				Screen Length:		5				
6/20/2002	23	•	6.9	•	•	•	•	•	•	•	•	•	•	•
9/24/2002	25	•	6.7	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	23	•	6.8	•	•	•	•	•	•	•	•	•	•	•
3/18/2003	22	•	6.6	•	•	•	•	•	•	•	•	•	•	•
MW-17														
Date		Top of Screen:		707.07				Screen Length:		10				
1/30/2007	[illegible]	•	6.7	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•	6.6	•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	6.6	•	•	•	•	•	•	•	•	•	•	•
MW-17A		MW-17A was abandoned on 11/11/2008												
Date		Top of Screen:		693.88				Screen Length:		5				
1/30/2007	11	•	6.9	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
MW-18		MW-18 was abandoned on 11/11/2008												
Date		Top of Screen:		709.62				Screen Length:		10				
1/31/2007	1.9	•	6.6	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	6.6	•	•	•	•	•	•	•	•	•	•	•
10/18/2007	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	6.5	•	•	•	•	•	•	•	•	•	•	•

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NR 140 PAL	0.15	1	NES	0.4	1.5	0.2	10	10	0.5	Increase of 10	125	NES	NES	7.5
NR 140 ES	0.3	10	NES	2	15	2	50	50	5	NES	250	NES	NES	15
MW-18A		MW-18A was abandoned on 11/12/2008												
Date		Top of Screen:		696.26				Screen Length:		5				
7/25/2006	7.0	•	6.6	•	•	•	•	•	•	•	•	•	•	•
8/21/2006	6.7	•	6.5	•	•	•	•	•	•	•	•	•	•	•
1/31/2007	6.9	•	6.7	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	6.9	•	•	•	•	•	•	•	•	•	•	•
MW-19		MW-19 was abandoned on 11/11/2008												
Date		Top of Screen:		707.95				Screen Length:		10				
8/21/2006	8.3	•	6.5	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
10/18/2007	•	•		•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	6.6	•	•	•	•	•	•	•	•	•	•	•
MW-19A		MW-19A was abandoned on 11/11/2008												
Date		Top of Screen:		696.44				Screen Length:		5				
4/24/406	2.2	•	6.7	•	•	•	•	•	•	•	•	•	•	•
7/25/2006	2.1	•	6.7	•	•	•	•	•	•	•	•	•	•	•
8/21/2006	2.7	•	6.6	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	6.6	•	•	•	•	•	•	•	•	•	•	•
MW-20		MW-20 was abandoned on 11/4/2008												
Date		Top of Screen:		704.97				Screen Length:		10				
5/14/2007	•	•	6.4	•	•	•	•	•	•	•	•	•	•	•
10/16/2007	•	•	6.9	•	•	•	•	•	•	•	•	•	•	•
1/10/2008	•	1.1 Q	6.8	•	•	•	•	•	•	•	•	•	•	•
10/7/2008	17.8	•	•	•	2.3 J	•	•	•	•	•	•	•	•	•
MW-20A		MW-20A was abandoned on 3/25/2009												
Date		Top of Screen:		694.19				Screen Length:		3				
8/27/2008	•	200	•	•	•	•	•	•	•	•	•	•	•	•
10/7/2008	•	212	•	•	•	•	•	•	•	•	•	•	•	•
11/24/2008	•	392	•	•	•	•	•	•	•	•	•	•	•	•
1/26/2009	•	224	•	•	•	•	•	•	•	•	•	•	•	•
MW-21		MW-21 was abandoned on 11/11/2008												
Date		Top of Screen:		712.46				Screen Length:		10				
1/31/2007	<50	•	6.7	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
10/18/2007	•	•		•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
MW-21A		MW-21A was abandoned on 11/11/2008												
Date		Top of Screen:		701.41				Screen Length:		5				
4/24/2006	0.12	•	6.[illegible]	•	•	•	•	•	•	•	•	•	•	•
8/18/2006	0.21	•	6.3	•	•	•	•	•	•	•	•	•	•	•
1/31/2007	0.51	•	[illegible]	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	6.9	•	•	•	•	•	•	•	•	•	•	•
MW-21B		MW-21B was abandoned on 11/11/2008												
Date		Top of Screen:		[illegible]				Screen Length:		5				
4/24/2006	[illegible]	•	7.4	•	•	•	•	•	•	•	•	•	•	•
8/18/2006	7.4	•	6.9	•	•	•	•	•	•	•	•	•	•	•
1/31/2007	7.[illegible]	•	[illegible]	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	7.[illegible]	•	•	•	•	•	•	•	•	•	•	•
MW-22		MW-22 was abandoned on 2/1/2001												
Date		Top of Screen:		707.[illegible]				Screen Length:		5				
3/28/2000	•	•	6.2	•	•	•	•	•	•	•	•	•	•	•
7/17/2000	•	•	6.0	•	•	•	•	•	•	•	•	•	•	•
MW-22A		MW-22A was abandoned on 2/1/2001												
Date		Top of Screen:		700.41				Screen Length:		5				
1/25/2000	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
3/29/2000	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
7/17/2000	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
MW-23		MW-23 was abandoned on 2/1/2001												
Date		Top of Screen:		706.20				Screen Length:		5				
3/29/2000	•	•	6.5	•	•	•	•	•	•	•	•	•	•	•
7/13/2000	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
MW-23A		MW-23A was abandoned on 2/1/2001												
Date		Top of Screen:		699.10				Screen Length:		5				
1/25/2000	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
3/29/2000	•	•	6.6	•	•	•	•	•	•	•	•	•	•	•
7/17/2000	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
MW-28		MW-28 was abandoned on 2/1/2001												
Date		Top of Screen:		709.10				Screen Length:		10				
3/29/2000	•	•	9.1	•	•	•	•	•	•	•	•	•	•	•
7/17/2000	•	•	8.7	•	•	•	•	•	•	•	•	•	•	•
10/11/2000	•	•	8.5	•	•	•	•	•	•	•	•	•	•	•
MW-28A		MW-28A was abandoned on 2/1/2001												
Date		Top of Screen:		697.00				Screen Length:		5				
3/29/2000	•	•	8.2	•	•	•	•	•	•	•	•	•	•	•
7/17/2000	•	•	8.2	•	•	•	•	•	•	•	•	•	•	•
10/11/2000	•	•	8.4	•	•	•	•	•	•	•	•	•	•	•
10/23/2000	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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NR 140 PAL	0.15	1	NES	0.4	1.5	0.2	10	10	0.5	Increase of 10	125	NES	NES	7.5
NR 140 ES	0.3	10	NES	2	15	2	50	50	5	NES	250	NES	NES	15
MW-29		MW-29 was abandoned on 2/1/2001												
Date		Top of Screen:		710.50				Screen Length:		10				
3/29/2000	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
7/13/2000	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
10/11/2000	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
MW-29A		MW-29A was abandoned on 2/1/2001												
Date		Top of Screen:		698.10				Screen Length:		5				
3/29/2000	•	•	7.5	•	•	•	•	•	•	•	•	•	•	•
MW-30		MW-30 was abandoned on 2/1/2001												
Date		Top of Screen:		705.90				Screen Length:		5				
3/29/2000	•	•	7.3	•	•	•	•	•	•	•	•	•	•	•
7/17/2000	•	•	7.2	•	•	•	•	•	•	•	•	•	•	•
10/12/2000	•	•	7.1	•	•	•	•	•	•	•	•	•	•	•
MW-30A		MW-30A was abandoned on 2/1/2001												
Date		Top of Screen:		699.00				Screen Length:		5				
3/29/2000	•	•	6.9	•	•	•	•	•	•	•	•	•	•	•
7/17/2000	•	•	7.1	•	•	•	•	•	•	•	•	•	•	•
10/12/2000	•	•	7.4	•	•	•	•	•	•	•	•	•	•	•
MW-31		MW-31 was abandoned on 11/11/2008												
Date		Top of Screen:		707.32				Screen Length:						
1/30/2007	11	•	6.6	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
10/18/2007	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
1/7/2008	•	•	6.6	•	•	•	•	•	•	•	•	•	•	•
MW-31B		MW-31B was abandoned on 11/11/2008												
Date		Top of Screen:		683.52				Screen Length:						
7/25/2006	0.16	•	7.2	•	•	•	•	•	•	•	•	•	•	•
8/17/2006	0.57	•	7.7	•	•	•	•	•	•	•	•	•	•	•
1/30/2007	1.6	•	7.1	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	7.4	•	•	•	•	•	•	•	•	•	•	•
MW-32														
Date		Top of Screen:		708.49				Screen Length:		10				
1/30/2007	<0.05	•	6.4	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	6.6	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•		•	•	•	•	•	•	•	•	•	•	•
1/7/2008	•	•	6.4	•	•	•	•	•	•	•	•	•	•	•
MW-32B		MW-32B was abandoned on 11/11/2008												
Date		Top of Screen:		679.70				Screen Length:		5				
4/28/2004	0.93	•	7	•	•	•	•	•	•	•	•	•	•	•
4/5/2005	3.6	•	6	•	•	•	•	•	•	•	•	•	•	•
4/24/2006	3.7	•	6.7	•	•	•	•	•	•	•	•	•	•	•
8/17/2006	2.2	•	7.3	•	•	•	•	•	•	•	•	•	•	•
MW-33														
Date		Top of Screen:		710.12				Screen Length:		10				
1/30/2007	0.05	•	7.0	•	•	•	•	•	•	•	•	•	•	•
5/14/2007	•	•	6.9	•	•	•	•	•	•	•	•	•	•	•
10/18/2007	•	•		•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
MW-33B		MW-33B was abandoned on 11/11/2008												
Date		Top of Screen:		686.74				Screen Length:		5				
4/24/2006	1.8	•	7.2	•	•	•	•	•	•	•	•	•	•	•
8/17/2006	2.1	•	6.8	•	•	•	•	•	•	•	•	•	•	•
1/30/2007	2.2	•	6.9	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
MW-34		MW-34 was abandoned on 11/11/2008												
Date		Top of Screen:		712.96				Screen Length:		15				
4/24/2006	<0.042	•	7.2	•	•	•	•	•	•	•	•	•	•	•
8/17/2006	<0.05	•	•	•	•	•	•	•	•	•	•	1.4	•	•
2/2/2007	<0.05	•	7.3	•	•	•	•	•	•	•	•	•	•	•
5/14/2007	•	•	7.4	•	•	•	•	•	•	•	•	•	•	•
MW-34B		MW-34B was abandoned on 11/11/2008												
Date		Top of Screen:		686.28				Screen Length:		5				
4/24/2006	0.086	•	6.8	•	•	•	•	•	•	•	•	•	•	•
8/18/2006	<0.05	•	7.9	•	•	•	•	•	•	•	•	•	21 Q	•
2/2/2007	<0.05	•	7.0	•	•	•	•	•	•	•	•	•	•	•
5/15/2007	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
MW-35		MW-35 was abandoned on 4/23/2003												
Date		Top of Screen:		704.60				Screen Length:		10				
6/24/2002	28	•	6.8	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	74	•	7.0	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	38	•	7.0	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	4.2	•	7.0	•	•	•	•	•	•	•	•	•	•	•
MW-35B		MW-35B was abandoned on 4/23/2003												
Date		Top of Screen:		680.60				Screen Length:		5				
6/24/2002	0.41	•	7.1	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	0.35	•	7.1	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	0.24	•	7.2	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	0.51	•	7.3	•	•	•	•	•	•	•	•	•	•	•

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M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

	Dissolved Iron (mg/L)	Dissolved Arsenic (ug/L)	pH (s.u.)	Dissolved Barium (mg/L)	Dissolved Lead (ug/L)	Dissolved Mercury (ug/L)	Dissolved Selenium (ug/L)	Dissolved Silver (ug/L)	Dissolved Cadmium (ug/L)	Sodium (mg/L)	Chloride (mg/L)	Total Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Color Units (color units)
NR 140 PAL	0.15	1	NES	0.4	1.5	0.2	10	10	0.5	Increase of 10	125	NES	NES	7.5
NR 140 ES	0.3	10	NES	2	15	2	50	50	5	NES	250	NES	NES	15
MW-36		MW-36 was abandoned on 11/13/2008												
Date		Top of Screen:		705.93				Screen Length:		10				
5/18/2007	2.7	•	6.7	•	•	•	•	•	•	•	•	•	•	•
10/18/2007	•	•		•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
MW-36B		MW-36 was abandoned on 11/12/2008												
Date		Top of Screen:		677.38				Screen Length:		5				
5/18/2007	1.1	•	6.6	•	•	•	•	•	•	•	•	•	•	•
MW-37		MW-37 was abandoned on 11/13/2008												
Date		Top of Screen:		705.47				Screen Length:		10				
5/18/2007	2.8	•	7.1	•	•	•	•	•	•	•	•	•	•	•
10/17/2007	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
MW-37B		MW-37B was abandoned on 11/17/2008												
Date		Top of Screen:		680.60				Screen Length:		5				
1/16/2006	0.066	•	6.8	•	•	•	•	•	•	•	•	•	•	•
4/24/2006	0.044 A†	•	6.9	•	•	•	•	•	•	•	•	•	•	•
7/25/2006	<0.042	•	7.0	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	0.47	•	6.8	•	•	•	•	•	•	•	•	•	•	•
MW-38		MW-38 was abandoned on 11/13/2008												
Date		Top of Screen:		708.04				Screen Length:		[illegible]				
5/18/2007	•	•	6.8	•	0.05Q	•	•	•	•	•	•	•	•	•
MW-39		MW-39 was abandoned on 11/13/2008												
Date		Top of Screen:		708.55				Screen Length:		[illegible]				
5/18/2007	•	•	6.8	•	0.11Q	•	•	•	•	•	•	•	•	•
MW-40		MW-40 was abandoned on 11/13/2008												
Date		Top of Screen:		703.86				Screen Length:		10				
5/18/2007	0.36	2.1	7.8	•	0.18	•	•	•	•	•	•	•	•	•
10/17/2007	•	5.4	8.2	•	•	•	•	•	•	•	•	•	•	•
1/10/2008	•	2.5	7.3	•	•	•	•	•	•	•	•	•	•	•
MW-41		MW-41 was abandoned on 11/14/2008												
Date		Top of Screen:		701.85				Screen Length:		10				
5/18/2007	•	1.7	7.0	0.19	•	<0.013A	0.40	0.15	0.19Q	•	•	•	•	•
10/16/2007	•	<1.0	7.1	•	0.15	•	•	•	•	•	•	•	•	•
1/10/2008	•	1.6	6.6	•	•	•	•	•	•	•	•	•	•	•
4/21/2008	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MW-42		MW-42 was abandoned on 11/14/2008												
Date		Top of Screen:		706.42				Screen Length:		10				
5/18/2007	•	<1.0	•	0.055	0.0[illegible]Q	<0.013A	0.78	<0.11	<0.097	•	•	•	•	390
10/16/2007	•	[illegible]	7.1	•	•	•	•	•	•	•	•	•	•	•
1/10/2008	•	3.2	7.0	•	•	•	•	•	•	•	•	•	•	•
4/21/2008	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MW-43		MW-43 was abandoned on 11/14/2008												
Date		Top of Screen:		706.12				Screen Length:		10				
5/18/2007	•	•	•	•	•	•	•	•	•	24	37	•	•	•
MW-44														
Date														
5/18/2007	•	•	7.1	•	•	•	•	•	•	•	•	•	•	•
MW-45		MW-45 was abandoned on 11/14/2008												
Date		Top of Screen:		70[illegible]37				Screen Length:		10				
5/18/2007	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1/10/2008	•	6.9	•	•	•	•	•	•	•	•	•	•	•	•
MW-46		MW-46 was abandoned on 11/14/2008												
Date		Top of Screen:		714.87				Screen Length:		10				
5/18/2007	•	•	6.9	•	0.07 Q	•	•	•	•	•	•	•	•	•
MW-47		MW-47 was abandoned on 11/14/2008												
Date		Top of Screen:		704.36				Screen Length:		10				
12/18/2007	•	•	•	•	2.7 Q	•	•	•	•	•	•	•	•	•
5/18/2007	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
4/21/2008	•	•	•	•	<1.4	•	•	•	•	•	•	•	•	•
MW-48		MW-48 was abandoned on 11/14/2008												
Date		Top of Screen:		701.19				Screen Length:		10				
5/18/2007	•	•	6.4	•	•	•	•	•	•	•	•	•	•	•
MW-49		MW-49 was abandoned on 11/14/2008												
Date														
10/17/2007	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1/7/2008	•	•	7.1	•	•	•	•	•	•	•	•	•	•	•
4/21/2008	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MW-50		MW-50 was abandoned on 11/14/2008												
Date														
12/18/2007	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1/10/2008	•	•	6.9	•	<0.22 C	•	•	•	•	•	•	•	•	•

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	Dissolved Iron (mg/L)	Dissolved Arsenic (ug/L)	pH (s.u.)	Dissolved Barium (mg/L)	Dissolved Lead (ug/L)	Dissolved Mercury (ug/L)	Dissolved Selenium (ug/L)	Dissolved Silver (ug/L)	Dissolved Cadmium (ug/L)	Sodium (mg/L)	Chloride (mg/L)	Total Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)	Color Units (color units)
NR 140 PAL	0.15	1	NES	0.4	1.5	0.2	10	10	0.5	Increase of 10	125	NES	NES	7.5
NR 140 ES	0.3	10	NES	2	15	2	50	50	5	NES	250	NES	NES	15
Extraction Well		EW-1 was abandoned on 11/14/2008												
Date		Top of Screen:		700.15				Screen Length:		10				
5/18/2007	•	•	7.4	•	•	•	•	•	•	•	•	•	•	350
10/17/2007	•	•	6.9	•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	7.3	•	•	•	•	•	•	•	•	•	•	•
ell														
RS-1 (Sump)		RS-1 abandoned in July 2001 and replaced with MW-35/35B on 11/8/2001												
Date		Total Depth:		6 feet										
11/24/1997	•	•	2.6	•	•	•	•	•	•	•	•	•	•	•
7/27/1999	•	•	1.4	•	•	•	•	•	•	•	•	•	•	•
12/13/1999	•	•	1.7	•	•	•	•	•	•	•	•	•	•	•
3/28/2000	•	•	1.2	•	•	•	•	•	•	•	•	•	•	•
7/5/2000	•	•	1.2	•	•	•	•	•	•	•	•	•	•	•
27/2001 - Pre pur	2,330	•	2.2	•	•	•	•	•	•	•	•	•	•	•
27/2001 - Post pu	2,550	•	2.1	•	•	•	•	•	•	•	•	•	•	•
GPW-1		GPW-1 was abandoned on 4/24/03												
Date		Top of Screen:		705.00				Screen Length:		8				
3/25/2002	5.7	•	7.0	•	•	•	•	•	•	•	•	•	•	•
6/25/2002	1.6	•	6.9	•	•	•	•	•	•	•	•	•	•	•
9/26/2002	2.0	•	6.8	•	•	•	•	•	•	•	•	•	•	•
12/19/2002	11	•	6.9	•	•	•	•	•	•	•	•	•	•	•
GPW-1A		GPW-1A was abandoned on 4/24/03												
Date		Top of Screen:		694.00				Screen Length:		5				
3/25/2002	0.29	•	6.9	•	•	•	•	•	•	•	•	•	•	•
6/25/2002	0.23	•	6.9	•	•	•	•	•	•	•	•	•	•	•
9/26/2002	<0.21 M	•	6.8	•	•	•	•	•	•	•	•	•	•	•
12/19/2002	0.11	•	6.8	•	•	•	•	•	•	•	•	•	•	•
GPW-2		GPW-2 was abandoned on 4/25/03												
Date		Top of Screen:		707.90				Screen Length:		10				
6/25/2002	32	•	6.9	•	•	•	•	•	•	•	•	•	•	•
9/26/2002	6.2	•	7.0	•	•	•	•	•	•	•	•	•	•	•
12/19/2002	4.4	•	6.9	•	•	•	•	•	•	•	•	•	•	•
3/20/2003	23	•	6.8	•	•	•	•	•	•	•	•	•	•	•
GPW-2A		GPW-2A was abandoned on 4/25/03												
Date		Top of Screen:		695.1				Screen Length:		5				
6/25/2002	57	•	6.7	•	•	•	•	•	•	•	•	•	•	•
9/26/2002	62	•	6.6	•	•	•	•	•	•	•	•	•	•	•
12/19/2002	54	•	6.6	•	•	•	•	•	•	•	•	•	•	•
3/20/2003	54	•	6	•	•	•	•	•	•	•	•	•	•	•
GPW-3/3R		GPW-3 was abandoned on 4/2/2001 and replaced with GPW-3R on 4/16/2001												
Date		Top of Screen ():		708.00/707.66				Screen Length ():		8/8.5				
2/1/2007	3.5	•	6.8	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•		•	•	•	•	•	•	•	•	•	•	•
10/18/2007	•	•		•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	6.8	•	•	•	•	•	•	•	•	•	•	•
GPW-3A/3AR		GPW-3A was abandoned on 4/2/2001 and replaced with GPW-3AR on 4/16/2001												
Date		Top of Screen ():		00.00/699.33				Screen Length ():		2 / 2				
4/24/2006	1 A	•	7	•	•	•	•	•	•	•	•	•	•	•
7/25/200	13	•	6.9	•	•	•	•	•	•	•	•	•	•	•
2/1/200	14	•	•	•	•	•	•	•	•	•	•	•	•	•
5/ /200	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
GPW-4		GPW-4 was abandoned on 4/24/2003												
Date		Top of Screen:		7.16				Screen Length:		10				
6/24/2002	0.22	•	7.2	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	0.16	•	7.0	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	<0.042	•	7.2	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	0.16	•	7.2	•	•	•	•	•	•	•	•	•	•	•
GPW-4A		GPW-4A was abandoned on 4/24/2003												
Date		Top of Screen:		694.30				Screen Length:		5				
6/24/2002	0.12	•	7.2	•	•	•	•	•	•	•	•	•	•	•
9/25/2002	0.12	•	7.2	•	•	•	•	•	•	•	•	•	•	•
12/18/2002	0.097	•	7.2	•	•	•	•	•	•	•	•	•	•	•
3/19/2003	0.1	•	7.1	•	•	•	•	•	•	•	•	•	•	•
GPW-5		GPW-5 was abandoned on 11/11/2008												
Date		Top of Screen:		708.81				Screen Length:		10				
2/1/200	0.14	•	•	•	•	•	•	•	•	•	•	•	•	•
5/16/200	•	•	7.6	•	•	•	•	•	•	•	•	•	•	•
10/1/2007	•	•	7.7	•	•	•	•	•	•	•	•	•	•	•
1/9/2008	•	•	7.6	•	•	•	•	•	•	•	•	•	•	•
GPW-5A		GPW-5A was abandoned on 11/11/2008												
Date		Top of Screen:		696.25				Screen Length:		3				
7/25/2006	4.7	•	7.0	•	•	•	•	•	•	•	•	•	•	•
2/1/2007	8.4	•	•	•	•	•	•	•	•	•	•	•	•	•
5/16/2007	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
1/9/2008	•	•	6.7	•	•	•	•	•	•	•	•	•	•	•
AT-1		AT-1 was abandoned on 11/4/2008												
Date		Top of Screen:		705.30				Screen Length:		6.5				
5/6/2004	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5/18/2007	•	•	7.0	•	•	•	•	•	•	•	•	•	•	•
10/16/2007	•	•	7.1	•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	•	6.9	•	•	•	•	•	•	•	•	•	•	•

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NR 140 PAL	0.15	1	NES	0.4	1.5	0.2	10	10	0.5	Increase of 10	125	NES	NES	7.5
NR 140 ES	0.3	10	NES	2	15	2	50	50	5	NES	250	NES	NES	15
B3														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
4/22/1998 (NLS)	•	•	7.5	•	•	•	•	•	•	•	•	•	•	•
4/22/1998 (Badger)	•	•	7.5	•	•	•	•	•	•	•	•	•	•	•
GP-1														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
2/26/2001	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GP-2														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
2/26/2001	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GP-3														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
2/26/2001	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GP-4														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
2/26/2001	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GP-5														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
2/26/2001	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GP-6														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
2/26/2001	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GP-7														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
2/26/2001	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GP-8														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
2/26/2001	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GP-9														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
2/26/2001	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GP-10														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
2/26/2001	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GP-11														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
2/26/2001	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GP1														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
5/4/1998 (NLS)	•	•	8.4	•	•	•	•	•	•	•	•	48	•	•
5/4/1998 (Badger)	•	•	8.5	•	•	•	•	•	•	•	•	•	•	•
GP2														
Date		Top of Screen:		Not Reported				Screen Length:		Not Reported				
5/4/1998 (NLS)	•	•	8.5	•	•	•	•	•	•	•	•	93	•	•
5/4/1998 (Badger)	•	•	8.6	•	•	•	•	•	•	•	•	34.7	•	•
TR-2		TR-2 abandoned on 1/11/2008												
Date		Top of Screen:		70-77				Screen Length:		10				
2/1/2007	1.4	1.5	•	0.31	0.05	<0.072	<0.67	<0.053	•	•	•	•	•	•
5/15/2007	3.2	•	5	0.2	0.10 Q	<0.013 A9	<1.5 AC	<0.11 N	0.3	•	•	•	•	•
10/17/2007	•	1.8	6.6	•	•	•	•	•	•	•	•	•	•	•
1/8/2008	•	2.2	6	•	•	•	•	•	•	•	•	•	•	•

NOTES:
Well numbers ending in "R" are replacement wells at the respective well locations.
~~*** = Sulfate analyzed past EPA hold time~~
• = Not analyzed
1 = Dissolved/filtered analyte greater than total analyte; analyses passed QC based on precision criteria
A = Analyte detected in the method blank.
& = Laboratory Control Spike recovery was not within control limits
† = Analyte detected between Limit of Detection (LOD) and Limit of Quantitation (LOQ)
~~*‡ = Lab report contained the following comment for dissolved and hexavalent chromium results, "Sample source and spike duplicates recoveries for this analytical batch were below the in house control limits. Further dilution of the sample did not improve recoveries. Problem attributed to sample matrix."~~
C = Standard outside of control limits
D = Diluted for analysis
ES = Enforcement Standard
~~*G = Hexavalent Chromium analyzed past EPA hold time*~~
H = Batch spike sample exceeded QC Control Limits

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Table 4a

Groundwater VOC Data
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Well Number		NR 140.10 Table 1		GPW5A (cont)						GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7	GP-8	GP-9	GP-10	GP-11
Sample Date	Units	PAL	ES	04/01/06	07/01/06	2/1/07	5/16/07	10/17/07	1/9/08	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01	2/26/01
Trimethylbenzene (total)	µg/l	*96**	**480***	76	32	73	69	85.83	*130*	BDL	0.11	BDL	BDL	0.13	BDL	BDL	BDL	BDL	0.13	BDL
1,2-Dichlorobenzene	µg/l	*60*	**600**	1.4	1.2	1.4	1.6	1.4Q	1.4Q	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane (1,2-DCA)	µg/l	*0.5*	**5**	<2.5	<0.5	<0.36	<0.36	<0.36	<0.36	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	µg/l	*0.5*	**5**	**5.8**	**6.5**	**7.4**	**6.3**	**6.7**	**7.0**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	µg/l	*0.3*	**3**	<1.0	<0.2	<0.24	<0.24	<0.24	<0.24	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene (DCE)	µg/l	*7*	**70**	<2.5	<0.5	<0.83	<0.83	<0.83	<0.83	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene Chloride	µg/l	*0.5*	**5**	<5.0	<1.0	0.43	<0.43	<0.43	<0.43	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene	µg/l	*10*	**100**	*29*	5.3	9.5	3.2	0.92Q	<0.74	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
p-Isopropyltoluene	µg/l	NES	NES	<1.0	<0.2	<0.67	<0.67	<0.67	<0.67	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene (PCE)	µg/l	*0.5*	**5**	<2.5	<0.5	<0.45	<0.45	<0.45	<0.45	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	µg/l	*200*	**1000**	<1.0	<0.2	<0.67	<0.67	0.84Q	<0.67	BDL	0.18	BDL	0.14	BDL	0.13	0.13	BDL	BDL	0.18	BDL
Trichloroethene (TCE)	µg/l	*0.5*	**5**	<2.5	<0.2	<0.48	<0.48	<0.48	<0.48	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl Chloride	µg/l	*0.02*	**0.2**	ND	ND	<0.18	<0.18	<0.18	<0.18	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Xylene (total)	µg/l	*1000**	**10000***	28	20	30.1	29.7	33.2	46.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

NOTES
NES = no established standard
ND = not detected above method detection limits or were below the PAL
NA = not analyzed
µg/l = micrograms per liter
Q = analyte detected between the limit of detection and limit of quantitation
C =elevated detection limit
BDL = Below Detection Limits
***Red/Bold** = NR 140 Enforcement Standard (ES) exceedence*
Blue/Italic = NR 140 Preventive Action Limit (PAL) exceedence

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Site reopened 09-20-2013
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Table 7

Groundwater Elevation Data
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Well Number	Measurement Date	Top of Casing Elevation (ft msl)	Screen Interval Top (ft msl)	Screen Interval Bottom (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Change in Water Elevation (ft)
MW-1R	6/18/2002	713.26	706.70	696.70	8.20	705.06	NA
	9/18/2002	713.26	706.70	696.70	10.71	702.547	-2.51
	12/16/2002	713.26	706.70	696.70	11.14	702.117	-0.43
	3/17/2003	713.26	706.70	696.70	11.54	701.72	-0.40
	4/28/2003	Abandon					-701.72
MW-1A	6/18/2002	713.16	698.00	693.00	8.11	705.05	705.05
	9/18/2002	713.16	698.00	693.00	10.61	702.551	-2.50
	12/16/2002	713.16	698.00	693.00	11.06	702.101	-0.45
	3/17/2003	713.16	698.00	693.00	11.46	701.7	-0.40
	4/28/2003	Abandon					-701.70
MW-2	6/2002	710.83	706.40	696.40	9.68	701.15	701.15
	9/2002	710.83	706.40	696.40	11.09	699.739	-1.41
	12/2002	710.83	706.40	696.40	10.32	700.509	0.77
	3/2003	710.83	706.40	696.40	10.91	699.92	-0.59
	4/28/2003	Abandon					-699.92
MW-2R	8/21/2006	711.65	704.11	694.11	11.91	699.74	699.74
	2/2/2007	711.65	704.11	694.11	11.71	699.94	0.20
	5/18/2007	711.78	704.11	694.11	11.42	700.36	0.42
	10/16/2007	711.78	704.11	694.11	10.88	700.90	0.54
	1/7/2008	711.78	704.11	694.11	11.54	700.24	-0.66
MW-2A	6/2002	710.88	696.40	691.40	9.67	701.21	0.96
	9/2002	710.88	696.40	691.40	10.97	699.91	-1.30
	12/2002	710.88	696.40	691.40	10.43	700.45	0.54
	3/2003	710.88	696.40	691.40	10.99	699.89	-0.56
	4/28/2003	Abandon					-699.89
MW-2AR	8/21/2006	711.85	694.27	689.27	12.10	699.75	699.75
	2/2/2007	711.85	694.27	689.27	11.73	700.12	0.37
	5/18/2007	711.95	694.27	689.27	11.54	700.41	0.29
	10/16/2007	711.95	694.27	689.27	10.87	701.08	0.67
	1/8/2007	711.95	694.27	689.27	11.21	700.74	-0.34
MW-2B	6/2002	711.39	683.60	676.10	11.33	700.06	-0.68
	9/2002	711.39	683.60	676.10	13.05	698.34	-1.72
	12/2002	711.39	683.60	676.10	12.83	698.56	0.22
	3/2003	711.39	683.60	676.10	13.04	698.35	-0.21
	4/28/2003	Abandon					-698.35
MW-2BR	8/21/2006	712.34	679.71	674.71	25.07	687.27	687.27
	2/2/2007	712.34	679.71	674.71	18.16	694.18	6.91
	5/18/2007	712.26	679.71	674.71	24.89	687.37	-6.81
	10/16/2007	712.26	679.71	674.71	18.51	693.75	6.38
	1/7/2008	712.26	679.71	674.71	18.31	693.95	0.20
MW-3	6/2002	713.40	707.70	697.70	7.68	705.72	11.77
	9/2002	713.40	707.70	697.70	10.46	702.94	-2.78
	12/2002	713.40	707.70	697.70	11.64	701.76	-1.18
	3/2003	713.40	707.70	697.70	12.66	700.74	-1.02
	4/28/2003	Abandon					-700.74
MW-3A	6/2002	713.23	697.70	692.70	8.55	704.68	704.68
	9/2002	713.23	697.70	692.70	10.77	702.46	-2.22
	12/2002	713.23	697.70	692.70	11.43	701.80	-0.66
	3/2003	713.23	697.70	692.70	11.69	701.54	-0.26
	4/28/2003	Abandon					-701.54
MW-3AR	8/21/2006	712.30	694.81	689.81	11.65	700.65	-0.99
	2/1/2007	712.30	694.81	689.81	11.32	700.98	0.33
	5/18/2007	712.42	694.81	689.81	10.71	701.71	0.73
	10/16/2007	712.42	694.81	689.81	10.90	701.52	-0.19
	1/8/2008	712.42	694.81	689.81	10.26	702.16	0.64
MW-3B	6/2002	713.42	684.90	679.90	13.42	700.00	-2.16
	9/2002	713.42	684.90	679.90	15.01	698.41	-0.76
	12/2002	713.42	684.90	679.90	15.01	698.41	0.00
	3/2003	713.42	684.90	679.90	15.17	698.25	-0.16
	4/28/2003	Abandon					-698.25
MW-4	6/2002	711.65	706.40	696.40	9.48	702.17	702.17
	9/2002	711.65	706.40	696.40	11.06	700.59	-1.58
	12/2002	711.65	706.40	696.40	10.83	700.82	0.23
	3/2003	711.65	706.40	696.40	11.36	700.29	-0.53
	4/28/2003	Abandon					-700.29

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Table 7

M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Well Number	Measurement Date	Top of Casing Elevation (ft msl)	Screen Interval Top (ft msl)	Screen Interval Bottom (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Change in Water Elevation (ft)
MW-4A	6/2002	711.61	696.60	691.60	9.67	701.94	701.94
	9/2002	711.61	696.60	691.60	11.19	700.42	-1.52
	12/2002	711.61	696.60	691.60	10.93	700.68	0.26
	3/2003	711.61	696.60	691.60	11.48	700.13	-0.55
	4/28/2003	Abandon					-700.13
MW-5	6/2002	714.33	709.40	699.40	6.66	707.67	707.67
	9/2002	714.33	709.40	699.40	9.00	705.33	-2.34
	12/2002	714.33	709.40	699.40	9.83	704.50	-0.83
	3/2003	714.33	709.40	699.40	10.36	703.97	-0.52
	4/28/2003	Abandon					-703.97
MW-5A	6/2002	714.43	699.60	694.60	8.39	706.04	706.04
	9/2002	714.43	699.60	694.60	10.50	703.93	-2.11
	12/2002	714.43	699.60	694.60	11.13	703.30	-0.63
	3/2003	714.43	699.60	694.60	11.84	702.59	-0.71
	4/28/2003	Abandon					-702.59
MW-6	8/21/2006	714.73	709.61	699.61	11.53	703.20	703.20
	2/1/2007	714.73	709.61	699.61	10.89	703.84	0.64
	5/18/2007	714.73	709.61	699.61	9.64	705.09	1.25
	10/16/2007	714.73	709.61	699.61	10.90	703.83	0.63
	1/9/2008	714.73	709.61	699.61	10.52	704.21	0.38
	11/1/2008	Abandon					-704.21
MW-6A	2/1/2007	714.76	697.65	692.65	11.14	703.62	703.62
	5/18/2007	714.76	697.65	692.65	10.00	704.76	1.14
	10/16/2007	714.76	697.65	692.65	11.15	703.61	-1.15
	1/9/2008	714.76	697.65	692.65	10.83	703.93	0.32
	11/1/2008	Abandon					-703.93
MW-6BR	2/2007	714.70	684.44	676.94	23.98	690.72	690.72
	5/18/2007	714.70	684.44	676.94	22.94	691.76	1.04
	10/16/2007	714.70	684.44	676.94	22.52	692.18	0.42
	1/9/2008	714.70	684.44	676.94	22.58	692.12	-0.06
	11/1/2008	Abandon					-692.12
MW-7A	2/1/2007	710.44	694.73	689.73	10.53	699.91	699.91
	5/18/2007	710.44	694.73	689.73	10.30	700.14	0.23
	10/16/2007	710.44	694.73	689.73	9.66	700.78	0.64
	1/8/2008	710.44	694.73	689.73	9.47	700.97	0.19
	11/1/2008	Abandon					-700.97
MW-7B	2/1/2007	710.84	681.65	674.15	12.79	698.05	698.05
	5/18/2007	710.84	681.65	674.15	12.41	698.43	-2.54
	10/16/2007	710.84	681.65	674.15	12.05	698.79	0.36
	1/9/2008	710.84	681.65	674.15	12.02	698.82	0.03
	11/1/2008	Abandon					-698.82
MW-8AR	6/2002	711.98	696.10	691.10	10.73	701.25	701.25
	9/2002	711.98	696.10	691.10	12.16	699.82	-1.43
	12/2002	711.98	696.10	691.10	11.51	700.47	0.65
	3/2003	711.98	696.10	691.10	12.24	699.74	-0.73
	4/28/2003	Abandon					-699.74
MW-9	6/2002	712.38	702.90	697.90	7.14	705.24	705.24
	9/2002	712.38	702.90	697.90	9.28	703.10	-2.14
	12/2002	712.38	702.90	697.90	9.98	702.40	-0.70
	3/2003	712.38	702.90	697.90	10.26	702.12	-0.28
	4/28/2003	Abandon					-702.12
MW-9R	8/21/2006	712.59	704.91	694.91	12.14	700.45	700.45
	1/30/2007	712.59	704.91	694.91	11.67	700.92	0.47
	5/18/2007	712.74	704.91	694.91	11.15	701.59	0.67
	10/16/2007	712.74	704.91	694.91	11.39	701.35	-0.24
	1/7/2008	712.74	704.91	694.91	11.48	701.26	-0.09
	11/1/2008	Abandon					-701.26

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Table 7

M-I/Kaukauna Utilities
1130 Banta Court
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Well Number	Measurement Date	Top of Casing Elevation (ft msl)	Screen Interval Top (ft msl)	Screen Interval Bottom (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Change in Water Elevation (ft)
MW-9A	6/2002	712.08	695.20	690.20	7.21	704.87	704.87
	9/2002	712.08	695.20	690.20	9.28	702.80	-2.07
	12/2002	712.08	695.20	690.20	9.77	702.31	-0.49
	3/2003	712.08	695.20	690.20	10.19	701.89	-0.42
	4/28/2003	Abandon					-701.89
MW-9AR	8/21/2006	712.16	693.55	688.55	11.80	700.36	700.36
	1/30/2007	712.16	693.55	688.55	11.51	700.65	0.29
	5/18/2007	712.30	693.55	688.55	10.88	701.42	0.77
	10/16/2007	712.30	693.55	688.55	10.92	701.38	-0.04
	1/7/2008	712.30	693.55	688.55	11.03	701.27	-0.06
	11/1/2008	Abandon					-701.42
MW-9B	6/2002	712.26	682.10	674.60	12.30	699.96	699.96
	9/2002	712.26	682.10	674.60	14.04	698.22	-1.75
	12/2002	712.26	682.10	674.60	13.82	698.44	0.22
	3/2003	712.26	682.10	674.60	14.02	698.24	-0.19
	4/28/2003	Abandon					-698.24
MW-9BR	8/21/2006	712.65	679.89	674.89	22.85	689.80	689.80
	1/30/2007	712.65	679.89	674.89	20.75	691.90	2.10
	5/18/2007	712.75	679.89	674.89	20.55	692.20	0.30
	10/16/2007	712.75	679.89	674.89	20.85	691.90	-0.30
	1/7/2008	712.75	679.89	674.89	20.70	692.05	0.15
	11/1/2008	Abandon					-692.05
MW-10	1/31/2007	709.92	703.96	693.96	9.31	700.61	700.61
	5/18/2007	709.92	703.96	693.96	9.28	700.64	0.13
	10/16/2007	709.92	703.96	693.96	8.63	701.29	0.65
	1/8/2008	709.92	703.96	693.96	8.49	701.43	0.14
	11/1/2008	Abandon					-701.43
MW-10A	1/31/2007	710.06	695.16	690.16	9.67	700.39	700.39
	5/18/2007	710.06	695.16	690.16	9.57	700.49	0.15
	10/16/2007	710.06	695.16	690.16	9.33	700.73	0.24
	1/8/2008	710.06	695.16	690.16	9.50	700.56	-0.17
	11/1/2008	Abandon					-700.56
MW-11	2/1/2007	716.11	706.81	696.81	11.20	704.91	704.91
	5/18/2007	716.11	706.81	696.81	10.82	705.29	0.38
	10/16/2007	716.11	706.81	696.81	11.29	704.82	-0.47
	1/8/2008	716.11	706.81	696.81	10.30	705.81	0.99
	11/1/2008	Abandon					-705.81
MW-11A	2/1/2007	714.62	697.27	692.27	11.51	703.11	703.11
	5/18/2007	714.62	697.27	692.27	11.08	703.54	0.43
	10/16/2007	714.62	697.27	692.27	11.39	703.23	-0.31
	1/8/2008	714.62	697.27	692.27	10.84	703.78	0.55
	11/1/2008	Abandon					-703.78
MW-12	2/1/2007	716.60	710.47	700.47	7.36	709.24	5.46
	5/18/2007	716.60	710.47	700.47	6.73	709.87	0.63
	10/16/2007	716.60	710.47	700.47	7.31	709.29	-0.58
	1/9/2008	716.60	710.47	700.47	5.50	711.10	1.81
	11/1/2008	Abandon					-711.10
MW-12A	2/1/2007	716.80	698.96	693.96	9.03	707.77	707.77
	5/18/2007	716.80	698.96	693.96	8.34	708.46	0.25
	10/16/2007	716.80	698.96	693.96	8.81	707.99	-0.47
	1/9/2008	716.80	698.96	693.96	7.72	709.08	1.09
	11/1/2008	Abandon					-709.08
MW-12B	2/1/2007	716.58	685.98	678.48	25.95	690.63	690.63
	5/18/2007	716.58	685.98	678.48	24.79	691.79	1.16
	10/16/2007	716.58	685.98	678.48	22.52	694.06	2.27
	1/9/2008	716.58	685.98	678.48	24.50	692.08	-1.98
	11/1/2008	Abandon					-692.08
MW-13	6/2002	713.92	707.70	698.70	6.08	707.84	707.84
	9/2002	713.92	707.70	698.70	9.35	704.57	-3.27
	12/2002	713.92	707.70	698.70	10.04	703.88	-0.69
	3/2003	713.92	707.70	698.70	11.89	702.03	-1.85
	4/28/2003	Abandon					-702.03
MW-13R	1/31/2007	713.91	706.32	696.32	12.74	701.17	701.17
	5/18/2007	714.06	706.32	696.32	12.36	701.70	0.53
	10/16/2007	714.06	706.32	696.32	11.77	702.29	0.59
	1/9/2008	714.06	706.32	696.32	6.08	707.98	5.69
	11/1/2008	Abandon					-707.98

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Well Number	Measurement Date	Top of Casing Elevation (ft msl)	Screen Interval Top (ft msl)	Screen Interval Bottom (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Change in Water Elevation (ft)
MW-13A	6/2002	713.86	696.60	691.60	8.92	704.94	704.94
	9/2002	713.86	696.60	691.60	10.97	702.89	-2.05
	12/2002	713.86	696.60	691.60	11.52	702.34	-0.55
	3/2003	713.86	696.60	691.60	11.89	701.97	-0.37
	4/28/2003	Abandon					-701.97
MW-13AR	1/31/2007	713.51	694.73	689.73	12.33	701.18	701.18
	5/18/2007	713.64	694.73	689.73	11.94	701.70	0.52
	10/16/2007	713.64	694.73	689.73	12.07	701.57	-0.13
	1/9/2008	713.64	694.73	689.73	11.38	702.26	0.69
	11/1/2008	Abandon					-702.26
MW-14	6/2002	712.83	706.60	697.60	8.26	704.57	704.57
	9/2002	712.83	706.60	697.60	10.26	702.57	-2.00
	12/2002	712.83	706.60	697.60	10.55	702.28	-0.29
	3/2003	712.83	706.60	697.60	10.96	701.87	-0.41
	4/28/2003	Abandon					-701.87
MW-14A	6/2002	712.73	695.40	690.40	7.03	705.70	705.70
	9/2002	712.73	695.40	690.40	8.86	703.87	-1.83
	12/2002	712.73	695.40	690.40	8.18	704.55	0.68
	3/2003	712.73	695.40	690.40	9.31	703.42	-1.13
	4/28/2003	Abandon					-703.42
MW-15	6/2002	713.64	708.10	699.10	7.72	705.92	705.92
	9/2002	713.64	708.10	699.10	8.56	705.08	-0.84
	12/2002	713.64	708.10	699.10	9.25	704.39	-0.69
	3/2003	713.64	708.10	699.10	9.55	704.09	-0.99
	4/28/2003	Abandon					-705.08
MW-15A	6/2002	713.49	698.60	693.60	8.39	705.10	705.10
	9/2002	713.49	698.60	693.60	10.38	703.11	-1.99
	12/2002	713.49	698.60	693.60	10.91	702.58	-0.53
	3/2003	713.49	698.60	693.60	11.39	702.10	-0.48
	4/28/2003	Abandon					-702.10
MW-15B	6/2002	714.07	684.00	679.00	9.52	704.55	704.55
	9/2002	714.07	684.00	679.00	11.36	702.71	-1.84
	12/2002	714.07	684.00	679.00	11.74	702.33	-0.38
	3/2003	714.07	684.00	679.00	12.22	701.85	-0.48
	4/28/2003	Abandon					-701.85
MW-16	6/2002	715.00	708.70	699.70	5.33	709.67	709.67
	9/2002	715.00	708.70	699.70	7.63	707.37	-2.30
	12/2002	715.00	708.70	699.70	8.07	706.93	-0.44
	3/2003	715.00	708.70	699.70	8.70	706.30	-0.63
	4/28/2003	Abandon					-706.30
MW-16A	6/2002	714.94	697.30	692.30	8.97	705.97	705.97
	9/2002	714.94	697.30	692.30	11.02	703.92	-2.05
	12/2002	714.94	697.30	692.30	11.65	703.29	0.69
	3/2003	714.94	697.30	692.30	12.17	702.77	-0.52
	4/28/2003	Abandon					-702.77
MW-17	1/30/2007	712.79	707.07	697.07	12.76	700.03	700.03
	5/18/2007	712.79	707.07	697.07	12.38	700.41	0.38
	10/16/2007	712.79	707.07	697.07	12.45	700.34	-0.07
	1/8/2008	712.79	707.07	697.07	12.30	700.49	0.15
MW-17A	1/30/2007	712.82	693.88	688.88	9.46	703.36	#REF!
	5/18/2007	712.82	693.88	688.88	8.88	703.94	0.58
	10/16/2007	712.82	693.88	688.88	9.64	703.18	-0.76
	1/8/2008	712.82	693.88	688.88	8.90	703.92	0.89
	11/1/2008	Abandon					-703.92
MW-18	1/31/2007	715.15	709.62	699.62	9.02	706.13	706.13
	5/18/2007	715.15	709.62	699.62	8.14	707.01	0.88
	10/16/2007	715.15	709.62	699.62	10.91	704.24	-2.77
	1/8/2008	715.15	709.62	699.62	8.67	706.48	2.24
	11/1/2008	Abandon					-706.48
MW-18A	1/31/2007	715.25	696.26	691.26	13.05	702.20	702.20
	5/18/2007	715.25	696.26	691.26	12.54	702.71	0.51
	10/16/2007	715.25	696.26	691.26	12.89	702.36	-0.35
	1/9/2008	715.25	696.26	691.26	8.67	706.58	4.22
	11/1/2008	Abandon					-706.58
MW-19	1/30/2007	713.51	707.95	697.95	10.91	702.60	702.60
	5/18/2007	713.51	707.95	697.95	10.76	702.75	0.15
	10/16/2007	713.51	707.95	697.95	11.68	701.83	-0.92

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Table 7

M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Well Number	Measurement Date	Top of Casing Elevation (ft msl)	Screen Interval Top (ft msl)	Screen Interval Bottom (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Change in Water Elevation (ft)
	1/8/2008	713.51	707.95	697.95	11.05	702.46	0.63
	11/1/2008	Abandon					-702.46
MW-19A	1/30/2007	713.44	696.44	691.44	12.92	700.52	700.52
	5/18/2007	713.44	696.44	691.44	12.65	700.79	0.27
	10/16/2007	713.44	696.44	691.44	12.37	701.07	0.28
	1/9/2008	713.44	696.44	691.44	12.26	701.18	0.11
	11/1/2008	Abandon					-701.18
MW-20	1/31/2007	710.82	704.97	694.97	6.71	704.11	704.11
	5/18/2007	710.82	704.97	694.97	5.75	705.07	0.96
	10/16/2007	710.82	704.97	694.97	4.79	706.03	0.96
	1/10/2008	710.82	704.97	694.97	5.18	705.64	-0.39
	11/1/2008	Abandon					-705.64
MW-20A	5/18/2007	710.90	694.19	691.19	9.71	701.19	701.19
	8/20/2007	710.90	694.19	691.19	9.02	701.88	0.69
	10/16/2007	710.90	694.19	691.19	8.89	702.01	0.13
	1/10/2008	710.90	694.19	691.19	8.95	701.95	NA
	11/1/2008	Abandon					NA
MW-21	1/31/2007	718.41	712.46	702.46	6.70	711.71	NA
	5/18/2007	718.41	712.46	702.46	9.07	709.34	NA
	10/16/2007	718.41	712.46	702.46	8.74	709.67	NA
	1/8/2008	718.41	712.46	702.46	5.09	713.32	NA
	11/1/2008	Abandon					NA
MW-21A	1/31/2007	718.58	701.41	696.41	17.07	701.51	NA
	5/18/2007	718.58	701.41	696.41	16.21	702.37	NA
	10/16/2007	718.58	701.41	696.41	16.65	701.93	NA
	1/9/2008	718.58	701.41	696.41	16.49	702.09	NA
	11/1/2008	Abandon					NA
MW-21B	1/31/2007	718.93	681.06	676.06	21.06	697.87	NA
	5/18/2007	718.93	681.06	676.06	20.73	698.20	NA
	10/16/2007	718.93	681.06	676.06	20.40	698.53	NA
	1/9/2008	718.93	681.06	676.06	20.36	698.57	NA
	11/1/2008	Abandon					NA
MW-31	1/30/2007	714.67	707.32	697.32	12.16	702.51	NA
	5/18/2007	714.67	707.32	697.32	11.95	702.72	NA
	10/16/2007	714.67	707.32	697.32	12.97	701.70	NA
	1/7/2008	714.67	707.32	697.32	12.46	702.21	NA
	11/1/2008	Abandon					NA
MW-31B	1/30/2007	714.54	683.52	678.52	17.13	697.41	NA
	5/18/2007	714.54	683.52	678.52	16.95	697.59	NA
	10/16/2007	714.54	683.52	678.52	16.24	698.30	NA
	1/9/2008	714.54	683.52	678.52	16.27	698.27	NA
	11/1/2008	Abandon					NA
MW-32	1/30/2007	716.65	708.49	698.49	8.60	708.05	NA
	5/18/2007	716.65	708.49	698.49	8.48	708.17	NA
	10/16/2007	716.65	708.49	698.49	8.15	708.50	NA
	1/7/2008	716.65	708.49	698.49	7.99	708.66	NA
MW-32B	1/30/2007	716.87	679.70	674.70	Obstruction	NM	NA
	5/18/2007	716.87	679.70	674.70	Obstruction	NM	NA
	10/16/2007	716.87	679.70	674.70	Obstruction	NM	NA
	1/9/2008	716.87	679.70	674.70	Obstruction	NM	NA
	11/1/2008	Abandon					NA
MW-33	1/30/2007	725.22	710.12	700.12	14.30	710.92	NA
	5/18/2007	725.22	710.12	700.12	9.78	715.44	NA
	10/16/2007	725.22	710.12	700.12	17.79	707.43	NA
	1/8/2008	725.22	710.12	700.12	7.19	718.03	NA
MW-33B	1/30/2007	725.09	680.74	675.74	27.44	697.65	NA
	5/18/2007	725.09	680.74	675.74	27.04	698.05	NA
	10/16/2007	725.09	680.74	675.74	26.68	698.41	NA
	1/9/2008	725.09	680.74	675.74	26.72	698.37	NA
	11/1/2008	Abandon					NA
MW-34	9/2002	713.03	704.60	694.60	10.60	702.43	NA
	12/2002	713.03	704.60	694.60	11.21	701.82	NA
	3/2003	713.03	704.60	694.60	11.61	701.42	NA
	4/28/2003	Abandon					NA
MW-35B	6/2002	713.26	680.60	675.60	13.30	699.96	NA
	9/2002	713.26	680.60	675.60	14.94	698.32	NA
	12/2002	713.26	680.60	675.60	14.75	698.51	NA

Further remediation/investigation needed. Site reopened 09-20-2013. Contact Project Manager for Assistance.

Table 7

M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Well Number	Measurement Date	Top of Casing Elevation (ft msl)	Screen Interval Top (ft msl)	Screen Interval Bottom (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Change in Water Elevation (ft)
	3/2003	713.26	680.60	675.60	14.93	698.33	NA
	4/28/2003	Abandon					NA
MW-36	5/18/2007	715.53	705.93	695.93	8.27	707.26	NA
	10/16/2007	715.53	705.93	695.93	11.69	703.84	NA
	1/8/2008	715.53	705.93	695.93	9.69	705.84	NA
	11/1/2008	Abandon					NA
MW-36B	5/18/2007	715.75	677.38	672.38	23.22	695.20	NA
	10/16/2007	715.75	677.38	672.38	22.49	693.26	NA
	1/9/2008	715.75	677.38	672.38	22.55	693.20	NA
	11/1/2008	Abandon					NA
MW-37	5/18/2007	713.72	705.47	695.47	NM	NM	NA
	10/16/2007	713.72	705.47	695.47	12.35	701.37	NA
	1/8/2008	713.72	705.47	695.47	12.38	701.34	NA
	11/1/2008	Abandon					NA
MW-37B	7/24/2006	713.05	680.60	675.60	21.40	691.65	NA
	5/18/2007	713.21	680.50	675.50	20.42	692.79	NA
	10/16/2007	713.21	680.50	675.50	19.90	693.31	NA
	1/9/2008	713.21	680.50	675.50	20.00	693.21	NA
	11/1/2008	Abandon					NA
MW-38	5/18/2007	716.29	708.04	698.04	6.69	709.60	NA
	10/16/2007	716.29	708.04	698.04	7.77	708.52	NA
	1/9/2008	716.29	708.04	698.04	5.20	711.09	NA
	11/1/2008	Abandon					NA
MW-39	5/18/2007	715.94	708.55	698.55	11.37	704.57	NA
	10/16/2007	715.94	708.55	698.55	11.04	704.90	NA
	1/9/2008	715.94	708.55	698.55	9.97	705.97	NA
	11/1/2008	Abandon					NA
MW-40	5/18/2007	712.96	703.86	693.86	12.08	700.88	NA
	10/16/2007	712.96	703.86	693.86	11.78	701.18	NA
	1/10/2008	712.96	703.86	693.86	11.10	701.86	NA
	11/1/2008	Abandon					NA
MW-41	5/18/2007	712.20	701.85	691.85	10.80	701.40	NA
	8/20/2007	712.20	701.85	691.85	10.71	701.49	NA
	10/16/2007	712.20	701.85	691.85	10.58	701.62	NA
	1/10/2008	712.20	701.85	691.85	10.10	702.10	NA
	11/1/2008	Abandon					NA
MW-42	5/18/2007	714.94	706.42	696.42	9.56	705.38	NA
	10/16/2007	714.94	706.42	696.42	9.44	705.50	NA
	1/10/2008	714.94	706.42	696.42	8.27	706.67	NA
	11/1/2008	Abandon					NA
MW-43	5/18/2007	713.46	706.12	696.12	10.42	703.04	NA
	10/16/2007	713.46	706.12	696.12	10.18	703.28	NA
	1/9/2008	713.46	706.12	696.12	9.78	703.68	NA
	11/1/2008	Abandon					NA
MW-44	5/18/2007	710.01	703.20	693.20	9.18	700.83	NA
	10/16/2007	710.01	703.20	693.20	7.03	702.98	NA
	1/9/2008	710.01	703.20	693.20	7.57	702.44	NA
	11/1/2008	Abandon					NA
MW-45	5/18/2007	711.43	705.37	695.37	11.09	700.34	NA
	10/16/2007	711.43	705.37	695.37	10.22	701.21	NA
	1/10/2008	711.43	705.37	695.37	10.29	701.14	NA
	11/1/2008	Abandon					NA
MW-46	5/18/2007	714.13	714.87	704.87	9.26	704.87	NA
	10/16/2007	714.13	714.87	704.87	6.56	707.57	NA
	1/9/2008	714.13	714.87	704.87	8.04	706.09	NA
	11/1/2008	Abandon					NA
MW-47	5/18/2007	712.23	704.36	694.36	5.89	706.34	NA
	8/20/2007	712.23	704.36	694.36	5.58	706.65	NA
	10/16/2007	712.23	704.36	694.36	5.34	706.89	NA
	1/9/2008	712.23	704.36	694.36	4.98	707.25	NA
	11/1/2008	Abandon					NA
MW-48	5/18/2007	709.60	701.19	691.19	8.92	700.68	NA
	10/16/2007	709.60	701.19	691.19	7.05	702.55	NA
	1/9/2008	709.60	701.19	691.19	7.65	701.95	NA
	11/1/2008	Abandon					NA
MW-49	10/16/2007	716.08	707.67	697.67	15.58	700.50	NA
	1/7/2008	716.08	707.67	697.67	16.07	700.01	NA
MW-50	1/10/2008	725.31	706.79	696.79	25.84	699.47	NA
	1/8/2008	725.31	706.79	696.79	25.97	699.34	NA
	11/1/2008	Abandon					NA
Ext. Well	5/18/2007	712.82	700.15	690.15	11.16	701.66	NA

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Table 7
M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Well Number	Measurement Date	Top of Casing Elevation (ft msl)	Screen Interval Top (ft msl)	Screen Interval Bottom (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Change in Water Elevation (ft)
	10/16/2007	712.82	700.15	690.15	11.33	701.49	NA
	1/8/2008	712.82	700.15	690.15	10.88	701.94	NA
	11/1/2008	Abandon					NA
AT-1	5/18/2007	711.29	705.31	698.81	10.47	700.82	NA
	10/16/2007	711.29	705.31	698.81	10.30	700.99	NA
	1/8/2008	711.29	705.31	698.81	9.72	701.57	NA
	11/1/2008	Abandon					NA
GPW-1	6/2002	711.23	705.00	697.00	7.38	703.85	NA
	9/2002	711.23	705.00	697.00	9.26	701.97	NA
	12/2002	711.23	705.00	697.00	8.19	703.04	NA
	3/2003	711.23	705.00	697.00	NS	NS	NA
	4/28/2003	Abandon					NA
GPW-1A	6/2002	711.10	694.00	689.00	7.10	704.00	NA
	9/2002	711.10	694.00	689.00	10.45	700.65	NA
	12/2002	711.10	694.00	689.00	11.02	700.08	NA
	3/2003	711.10	694.00	689.00	NS	NS	NA
	4/28/2003	Abandon					NA
GPW-2	6/2002	712.76	707.90	697.90	6.42	706.34	NA
	9/2002	712.76	707.90	697.90	8.65	704.11	NA
	12/2002	712.76	707.90	697.90	9.05	703.71	NA
	3/2003	712.76	707.90	697.90	9.25	703.51	NA
	4/28/2003	Abandon					NA
GPW-2A	6/2002	712.99	695.10	690.10	8.35	704.64	NA
	9/2002	712.99	695.10	690.10	10.45	702.54	NA
	12/2002	712.99	695.10	690.10	9.10	703.89	NA
	3/2003	712.99	695.10	690.10	10.91	702.08	NA
	4/28/2003	Abandon					NA
GPW-3R	2/1/2007	713.16	707.66	699.16	6.79	706.37	NA
	5/18/2007	713.16	707.66	699.16	8.61	704.55	NA
	10/16/2007	713.16	707.66	699.16	8.94	704.22	NA
	1/8/2008	713.16	707.66	699.16	9.15	704.01	NA
	11/1/2008	Abandon					NA
GPW-3AR	2/1/2007	713.49	699.33	697.33	11.82	701.67	NA
	5/18/2007	713.49	699.33	697.33	11.42	702.07	NA
	10/16/2007	713.49	699.33	697.33	11.70	701.79	NA
	1/9/2008	713.49	699.33	697.33	11.14	702.35	NA
	11/1/2008	Abandon					NA
GPW-4	6/2002	713.11	707.10	697.10	11.57	701.54	NA
	9/2002	713.11	707.10	697.10	13.15	699.96	NA
	12/2002	713.11	707.10	697.10	12.86	700.25	NA
	3/2003	713.11	707.10	697.10	13.38	699.73	NA
	4/28/2003	Abandon					NA
GPW-4A	6/2002	713.17	694.30	689.30	11.84	701.32	NA
	9/2002	713.17	694.30	689.30	13.24	699.93	NA
	12/2002	713.17	694.30	689.30	12.98	700.19	NA
	3/2003	713.17	694.30	689.30	13.53	699.64	NA
	4/28/2003	Abandon					NA
GPW-5	2/1/2007	713.73	708.81	698.81	11.95	701.78	NA
	5/18/2007	713.73	708.81	698.81	11.22	702.51	NA
	10/16/2007	713.73	708.81	698.81	11.91	701.82	NA
	1/9/2008	713.73	708.81	698.81	11.68	702.05	NA
	11/1/2008	Abandon					NA
GPW-5A	5/18/2007	713.82	696.25	693.25	11.23	702.59	NA
	8/20/2007	713.82	696.25	693.25	12.22	701.60	NA
	10/16/2007	713.82	696.25	693.25	11.99	701.83	NA
	1/9/2008	713.82	696.25	693.25	11.84	701.98	NA
	11/1/2008	Abandon					NA
TR-2	2/1/2007	710.66	706.77	696.77	10.62	700.04	NA
	5/18/2007	710.66	706.77	696.77	10.48	700.18	NA
	10/16/2007	710.66	706.77	696.77	9.70	700.96	NA
	1/8/2008	710.66	706.77	696.77	9.51	701.15	NA
	11/1/2008	Abandon					NA
Telulah Canal	4/24/2006					708.82	NA
	7/24/2006					707.84	NA
	8/21/2006					NS	NA
	2/1/2007					NS	NA
	1/8/2008					707.78	NA
	11/1/2008	Canal Drained					NA

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

Table 7

M-I/Kaukauna Utilities
1130 Banta Court
Appleton, Wisconsin

Well Number	Measurement Date	Top of Casing Elevation (ft msl)	Screen Interval Top (ft msl)	Screen Interval Bottom (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Change in Water Elevation (ft)
Fox River	7/24/2006					700.00	NA
	8/21/2006					NS	NA
	2/1/2007					NS	NA
	1/8/2008					699.50	NA

NOTES

ft bgs = feet below ground surface

ft bm = feet relative to benchmark

ft btoc = feet below top of casing

ft msl = feet relative to mean sea level. Benchmark elevation is estimated at 100 feet msl.

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

SOURCE PROPERTY

Shaw Environmental, Inc.
111 West Pleasant Street, Suite 105
Milwaukee, WI 53212-3939
Tel 414.291.2350
Fax: 414.291.2385

Shaw™ Shaw Environmental, Inc.

Sent Via Certified Mail

February 9, 2009

Mr. Mark Geall
Tanesay Development LLC
1335 North Dearborn, No. 4
Chicago, IL 60610

Subject: Status of Closure Documentation and Notification of Residual Affected Soils, Former M-I/ Kaukauna Utilities Site, 1130 Banta Court, Appleton, Wisconsin

Dear Mr. Geall:

This letter serves to follow-up our telephone conversation on this date regarding the remediation activities completed by Shaw Environmental, Inc. (Shaw) on the former M-I/Kaukauna Utilities Site. As you know, Shaw met with Ms. Jennifer Borski of the Wisconsin Department of Natural Resources (WDNR) on February 2, 2009 to discuss the draft closure reports which were provided to you for review on January 22, 2009. In a letter dated February 3, 2009, Ms. Borski indicated that the active remediation had been completed at the Site and concurred that the closure reports should be submitted to the WDNR for review and approval. A copy of the February 3, 2009 WDNR was forwarded directly to you.

The closure reports and close-out forms have been prepared by Shaw in accordance with Chapter NR 726.05 of the Wisconsin Administrative Code. All constituents (chromium, lead, arsenic, benzene, and polynuclear aromatic hydrocarbons) previously identified during the site investigation activities in soils at the Site that exceeded the Site Specific Residual Contaminant Levels (RCLs) developed by Shaw and approved by the WDNR have been removed from the Site within the direct contact interval (ground surface to a depth of four feet). Constituents, however, do remain in the soil below a depth of four feet, but do not pose a risk to human health or the environment. Further, the constituents dissolved in groundwater are stable, and no active remediation of groundwater is warranted, as documented in the WDNR letter dated October 13, 2008.

The closure reports and close-out forms will be forwarded to the WDNR during the week of February 9-13, 2009. Copies of the final documents will be forwarded to you, and all other client parties. The GIS materials will be included on the WDNR GIS registry, after issuance of closure and the Certificate of Completion.

Thank you support and assistance with the remediation of the Site. Should you have any questions regarding the information contained herein, please feel free to call at (414) 291-2372.

Sincerely,
Shaw Environmental, Inc.

Heidi A. Woehrel
Project Geologist

James F. Drought, P.H.
Principal Hydrogeologist

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

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May 10, 2009

Ms. Jennifer Borski
Hydrogeologist
Wisconsin Department of Natural Resources
625 East County Road Y, Suite 700
Oshkosh, Wisconsin 54901-9731

Subject: Documentation for Final Closure, M-I/Consolidated Papers/Kaukauna Utilities Site, 1130 Banta Court (East John Street), Appleton, Wisconsin

Dear Ms. Borski:

This letter serves to follow-up my recent telephone conversations with James Drought and Heidi Woelfel of Shaw Environmental, Inc. (Shaw) regarding closure of the above-referenced site. It is understood that the Northeast Region Closure Committee of the Wisconsin Department of Natural Resources (WDNR), in a meeting held on March 19, 2009, confirmed that no further investigation or remediation will be required on the Site. Further, it is understood that closure will be issued by the WDNR following submittal and review of supplemental information provided by Shaw.

RiverHeath LLC, the owner of the Site, is pleased to provide you with the following information to support the pending closure of the Site:

1. The *Status of Closure Documentation and Notification of Residual Affected Soils* letter prepared and forwarded via certified mail by Shaw on February 9, 2009, was received by RiverHeath LLC;

2. The following groundwater monitoring wells remain and will be monitored by RiverHeath LLC in accordance with the requirements of the NR Chapter 30 permit issued by the WDNR on October 3, 2008: MW-17, MW-32, MW-33, and MW-49; and

3. The exposed sediments in the former Telulah canal will be filled to grade by RiverHeath LLC, pending certain approvals from the WDNR and the United States Army Corps of Engineers.

I trust this information will meet your needs. Should you, however, have any questions regarding this matter, please feel free to call with questions.

Sincerely,

Mark Geall
Principal

1335 North Dearborn #4
Chicago IL 60610 USA
Tel: 312 846-6313
www.tanesay.com

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

SOURCE PROPERTY

Shaw Environmental, Inc.
111 West Pleasant Street, Suite 105
Milwaukee, WI 53212-3939
Tel 414.291.2350
Fax: 414.291.2385

Shaw™ Shaw Environmental, Inc.

Sent Via Certified Mail

July 14, 2009

Mr. Mark Geall
Tanesay Development LLC
1335 North Dearborn, No. 4
Chicago, Illinois 60610

Subject: Status of Closure Documentation and Notification of Residual Affected Soils, Former M-I/ Kaukauna Utilities Site, 1130 Banta Court, Appleton, Wisconsin.

Dear Mr. Geall:

This letter serves to follow-up the letter sent to you on February 9, 2009 for the closure documentation of the former M-I/Kaukauna Utilities Site and the notification of residual hydrocarbons and chromium in soil below a depth of four feet, and residual constituents in groundwater. According to the Wisconsin Administrative Code (WAC) ch. NR 726, all landowners whose property has affected groundwater that exceeds the ch. NR 140 enforcement standards at the time of case closure, as requested by the Wisconsin Department of Natural Resources (WDNR), must be notified of the following provisions to satisfy the requirements of s. NR 726.05 (2)(b) 4. and (3)(a) 4g. As requested by Ms. Jennifer Borski of the WDNR, the following language is to be used in reference with the February 9, 2009 letter.

Affected groundwater exists on the former M-I/Kaukauna Utilities Site at 1130 Banta Court. The levels of dissolved chromium, sulfate, arsenic and volatile organic compounds (VOCs) in the groundwater on the property exceed the state groundwater enforcement standards found in chapter NR 140, WAC. However, the dissolved groundwater plume is stable or receding. Natural attenuation can be used to complete the cleanup at this Site, and this will meet the requirements for case closure that are found in chapter NR 726, WAC, and the WDNR has been requested to grant case closure. Closure means that the Department will not be requiring any further investigation or cleanup action to be taken, other than the reliance on natural attenuation.

The WDNR will not review the closure request for the 1130 Banta Court property for **at least 30 days** after the date of this letter. As an affected property owner, you have a right to contact the WDNR to provide any technical information that you may have that indicates that closure should not be granted for this Site. If you would like to submit any information to the WDNR that is relevant to this closure request, you should mail that information to Ms. Jennifer Borski of the WDNR Northeast Region.

Should you choose to waive the 30 day review period, please contact Ms. Jennifer Borski to proceed with the closure request. The notification can be sent to:

Further remediation/investigation needed. Site reopened 09-20-2013. Contact Project Manager for Assistance.

SOURCE PROPERTY

Ms. Jennifer Borski
Hydrogeologist
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
625 East County Road Y, STE. 700
Oshkosh, WI 54901-9731

If this case is closed, all properties within the Site boundaries where the dissolved sulfate, chromium, arsenic and VOCs in groundwater exceed chapter NR 140 groundwater enforcement standards will be listed on the WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites . The information on the GIS Registry includes maps showing the location of the properties in Wisconsin where groundwater contamination above chapter NR 140 enforcement standards was found at the time the case was closed. This GIS Registry will be available to the general public on the WDNR internet web site.

Once the WDNR makes a decision on the closure request for 1130 Banta Court, it will be documented in a letter. A copy of the closure letter is included as part of the Site file on the GIS Registry of Closed Remediation Sites which can be accessed on the internet at http://www.dnr.wi.gov/org/aw/rr/gis/index.htm.

Should you or any subsequent property owner wish to construct or reconstruct a well on the former M-I/Kaukauna Utilities Site, special well construction standards may be necessary to protect the well from the residual groundwater contamination. Any well driller who proposes to construct a well on the Site in the future will first need to obtain approval from the regional water supply specialist in the WDNR's Drinking Water and Groundwater Program. The well construction application, form 3300-254 is on the internet at http://www.dnr.wi.gov/org/water/dwg/3300254.pdf, or may be accessed through the GIS Registry web address in the preceding paragraph.

Thank you for your support with the final closure of the Site. Should you have any questions regarding the information contained herein, please feel free to call me at (414) 291-2362. You may also wish to contact Ms. Jennifer Borski of the WDNR directly at (920) 424-7887.

Sincerely,
Shaw Environmental, Inc.

James Drought

James F. Drought, P.H.
Principal Hydrogeologist

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

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July 29, 2009

Jennifer Borski
Principal Hydrogeologist
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
620 East County Road Y, Suite 700
Oshkosh WI 54901-9731

R + R-OSH
RECEIVED
JUL 29 2009
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REVIEWED

Subject: Closure Request: 1130 Banta Court
Appleton, Wisconsin

Dear Ms. Borski,

This letter serves as notice of our intent to waive the 30 day review period for the closure request submitted by Shaw Environmental at the 1130 Banta Court site located in Appleton, Wisconsin. We have received Shaw's letters dated February 9, 2009, and July 14, 2009, describing the closure process.

Thank you for your assistance. Please contact me if you have any questions.

Sincerely,

Mark Geall
Principal

Cc: Shaw Environmental

Further remediation/investigation needed.
Site reopened 09-20-2013.
Contact Project Manager for Assistance.

1335 North Dearborn #4
Chicago IL 60610 USA
Tel: 312 846-6313
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