GIS REGISTRY
Cover Sheet

March, 2010
(RR 5367)

Source Property Information

CLOSURE DATE: Oct 19, 2010

BRRTS #: **03-15-114878**

FID #:

ACTIVITY NAME: Sturgeon Bay Utilities

DATCP #:

PROPERTY ADDRESS: 230 E Vine St

COMM #: 54235197230A

MUNICIPALITY: Sturgeon Bay

PARCEL ID #: 281-64-76000828

***WTM COORDINATES:**

X: **727270** Y: **486545**

** 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:

- [X] Groundwater Contamination > ES *(236)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  (***note:*** *for list of off-source properties see "Impacted Off-Source Property" form)*
- [X] Soil Contamination > *RCL or **SSRCL *(232)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

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

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)*
- [X] Cover or Barrier *(222)*

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

  (***note:*** *local government unit or economic development corporation was directed to take a response action)*

Monitoring Wells:

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

( ) Yes (•) No ( ) N/A

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

State of Wisconsin
Department of Natural Resources
http://dnr.wi.gov

GIS Registry Checklist

Form 4400-245 (R 3/10)

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 #: 03-15-114878 PARCEL ID #: 281-64-76000828

ACTIVITY NAME: Sturgeon Bay Utilities WTM COORDINATES: X: 727270 Y: 486545

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

- [X] **Closure Letter**
- [X] **Maintenance Plan** (*if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.*)
- [ ] **Continuing Obligation Cover Letter** (for property owners affected by residual contamination and/or continuing obligations)
- [X] **Conditional Closure Letter**
- [ ] **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.*
- [X] **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 11 x 17 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 #: **Title: Site Location Map - Sturgeon Bay Utilities - Sturgeon Bay, WI**
- [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 #: **Title: Geoprobe Boring/Monitoring Well Configuration**
- [X] **Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour 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 #: 8 **Title: Soil Contamination Map - May 4, 2010**

BRRTS #: 03-15-114878 ACTIVITY NAME: Sturgeon Bay Utilities

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 #: 6 **Title: Geologic Cross-Section A-A'**

Figure #: 7 **Title: Geologist Cross-Section B-B'**

☒ **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 #: **Title: Groundwater Contamination Map - May 4, 2010**

☒ **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 #: **Title: Groundwater Contour Map - May 4, 2010**

Figure #: 9 **Title: Potentiometric Surface (04-07-98)**

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

Tables must be no larger than 11 x 17 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 #: 2 & 3 **Title: UST Closure Soil Sample Analytical Results & Soil Sample PID Field Screening & Analytical R**

☒ **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 #: **Title: Groundwater Analytical Results Summary & Gw PAH Data Summary Tables**

☒ **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 #: **Title: Groundwater Elevation Table, Summary of Free Product Levels & Recovery**

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: NA - Loc of MW-10 never provided. Abandoned 02-27-1998. Replacement installed.**

☒ **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).

BRRTS #: 03-15-114878 ACTIVITY NAME: Sturgeon Bay Utilities

NOTIFICATIONS

Source Property

☒ **Not Applicable**

☐ **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.

☒ **Not Applicable**

☐ **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:

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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

Northeast Region Headquarters
2984 Shawano Ave.
Green Bay, Wisconsin 54313-6727
Telephone 920-662-5100
FAX 920-662-5413
TTY Access via relay - 711

October 19, 2010

Ms. Laurie Bauldry
Sturgeon Bay Utilities
230 East Vine Street
Sturgeon Bay, WI 54235

SUBJECT: Final Case Closure with Continuing Obligations
Sturgeon Bay Utilities, 230 East Vine Street Sturgeon Bay, Wisconsin
WDNR BRRTS Activity #: 03-15-114878

Dear Ms. Bauldry:

On August 11, 2010, the Wisconsin Department of Natural Resources Northeast Region Closure Committee reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On August 26, 2010, you were notified that the Closure Committee had granted conditional closure to this case.

On October 18, 2010, the Department received information indicating that you have complied with the requirements for final closure (submittal of monitoring well abandonment forms and documentation of proper soil/water disposal).

The Department reviewed the case closure request regarding the petroleum contamination in soil and groundwater at this site. Based on the correspondence and data provided, it appears that your 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, you 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:

- Pavement, an engineered cover or a soil barrier must be maintained over contaminated soil and the state must approve any changes to this barrier.
- Groundwater contamination is present above Chapter NR 140 enforcement standards.
- One monitoring well was not located and must be properly abandoned if found.

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.

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 Sturgeon Bay Utilities 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.

Cover or Barrier

Pursuant to s. 292.12(2)(a), Wis. Stats., the pavement or other impervious cap that currently exists in the location shown on the attached map shall be maintained in compliance with the attached maintenance plan in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. If soil in the specific locations described above is excavated in the future, 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 statutes 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 during excavation activities to prevent a health threat to humans.

The attached maintenance plan and inspection log are to be kept up-to-date and on-site. Please submit the inspection log to the Department only upon request.

Prohibited Activities

The following activities are prohibited on any portion of the property where pavement, a building foundation or other barrier is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure.

Residual Groundwater Contamination

Groundwater impacted by petroleum 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.

Vapor Migration

In addition, depending on site-specific conditions, construction over contaminated materials may result in vapor migration of contaminants into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Monitoring Well that could not be Properly Abandoned

On August 24, 2010 your consultant, METCO, notified the Department that monitoring well MW-10 could not be properly abandoned because the specific location of this well is unknown. Monitoring well MW-10 is thought to be located on the Sturgeon Bay Utilities property. This well was installed and presumed to be abandoned by the previous consultant, Fluid Management, working on the Sturgeon Bay Utilities site. METCO has made reasonable efforts to locate monitoring well MW-10 and to determine whether it was properly abandoned but has been unsuccessful in those efforts. You need to understand that in the future you may be held liable for any problems associated with monitoring well MW-10 if it creates a conduit for contaminants to enter groundwater. If in the future monitoring well MW-10 is found, the then current owner of the property on which the well is located will be required to notify the Department, to properly abandon the wells in compliance with the requirements in ch. NR 141, Wis. Adm. Code, and to submit the required documentation of that abandonment to the Department.

Because this monitoring well was not properly abandoned and had contaminant concentrations greater than enforcement standards set forth in ch. NR 140, Wis. Adm. Code, the site will be listed on the DNR Remediation and Redevelopment GIS Registry.

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/

Post-Closure Notification Requirements

In accordance with ss, 292.12 and 292.13, Wis. Stats., you 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:

- Disturbance, construction on, change or removal in whole or part of pavement, an engineered cover or a soil barrier that must be maintained over contaminated soil.
- One or more monitoring wells that were not located is found and properly abandoned.

Please send written notifications in accordance with the above requirements to:

Department of Natural Resources
Attn: Kristin DuFresne
2984 Shawano Avenue
Green Bay, WI 54313-6727

The following DNR fact sheet, RR-819, "Continuing Obligations for Environmental Protection" has been included with this letter, to help explain a property owner's responsibility for continuing obligations on their property. If the fact sheet is lost, you may obtain a copy at http://dnr.wi.gov/org/aw/rr/archives/pubs/RR819.pdf.

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 Kristin DuFresne at 920-662-5443.

Sincerely,

Roxanne Nelezen Chronert
Acting Team Supervisor
Northeast Region Remediation & Redevelopment Program

Attachments

- Cover (Barrier or Cap) Maintenance Plan
- Soil Contamination Map – May 4, 2010
- Groundwater Contamination Map - May 4, 2010
- Continuing Obligations for Environmental Protection, PUB-RR-819

ec: Jason Powell, METCO
Bob Klauk, Department of Commerce - Oshkosh

COVER (BARRIER OR CAP) MAINTENANCE PLAN

July 26, 2010

Property Located at:
230 E. Vine Street
Sturgeon Bay, WI 54235

WDNR BRRTS # 03-15-114878, FID # 415051121

LEGAL DESCRIPTION

A tract of land situated in Sections 7 and 8 Township 27 North of Range 26 East, Assessors Map subdivisions 76 and 77 of the City of Sturgeon Bay more particularly described as follows; Beginning at a point on the shore of Sturgeon Bay 706 feet southerly of the South line of the Crary Canning Co. and running thence South 46^0 west 1155 feet to the center of the Clay Banks road, thence southeasterly along the center of the Clay Banks road 367 feet, thence North 42^0 east 1064 feet to the dividing line between Jacobs and Gigot, thence northerly along said line 175 feet more or less to the shore of Sturgeon Bay, thence northwesterly along the shore 184 feet to the place of beginning, including the water privileges and all riparian rights and excluding the railroad right of way.

TAX # 2816476000828

Introduction
This document is the Maintenance Plan for a concrete surface and building cover at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing concrete surface and building occupying the area over the contaminated soil and groundwater on-site.

More site-specific information about this property may be found in:

The case file in the DNR Northeast regional office

BRRTS on the Web (DNR's internet based data base of contaminated sites):
http://botw.dnr.state.wi.us/botw/SetUpBasicSearchForm.do

GIS Registry PDF file for further information on the nature and extent of contamination:
http://dnrmaps.wisconsin.gov/imf/imfApplyTheme.jsp?index=1; and

The DNR project manager for Door County.

Description of Contamination
Soil contaminated by petroleum (gasoline and diesel) is located from approximately 7 to 14 feet below ground surface in the area of the removed gasoline and diesel UST's and dispensers. Dolomite bedrock was encountered at approximately 14 feet in this area and contamination extends downward in bedrock to the watertable. Groundwater contaminated by petroleum (gasoline and diesel) is located at a depth of 22 feet. The

extent of the unsaturated and smear zone soil contamination is shown on the attached Cap Maintenance Plan Map (Exhibit B).

Description of the Surface to be Maintained

The surface to be maintained consists of a 4-6 inch thick concrete pad located on the north side of Sturgeon Bay Utilities building along with the building itself, which has a slab on-grade foundation, as shown on the attached Cap Maintenance Plan Map (Exhibit B).

Cover Barrier Purpose

The concrete surface and building over the contaminated soil serves as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

Annual Inspection

The concrete surface and building overlying the contaminated soil and as depicted in Exhibit B will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause exposure to underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Exhibit C, Cap Inspection Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be kept at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources ("WDNR") representatives upon their request.

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment ("PPE"). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law. In the event the concrete surface overlying the contaminated soil is removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WDNR or its successor.

The property owner, in order to maintain the integrity of the concrete surface and building, will maintain a copy of this Maintenance Plan on-site and make it available to all

interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover or Cap
The following activities are prohibited on any portion of the property where the concrete surface and building cover is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of WDNR.

Contact Information – July 2010

Responsible Party for Environmental Investigation/Remediation:

Sturgeon Bay Utilities
Laurie Bauldry
P.O. Box 27
Sturgeon Bay, WI 54235
(920) 746-2820

Environmental Consultant:

METCO
1421 State Road 16
La Crosse, WI 54601
(608) 781-8879

Wisconsin Department of Natural Resources:

Kristen DuFresne
2984 Shawano Avenue
Green Bay, WI 54313-5197
(920) 662-5443

Parcel # 281647600 0828

Exhibit A

50 of Deeds Pg 153

H. C. MILLER CO., MILWAUKEE Y37057

NUMBER 229166A

Indenture, Made this 10th day of November, A. D., 19 38,

Mary Carrington

part y of the first part, and

The City of Sturgeon Bay, a Municipal corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located at Door County, Wisconsin part y of the second part.

WITNESSETH, That the said part y of the first part, for and in consideration of the sum of

Twelve Hundred

Dollars in hand paid by the said part y of the second part, the receipt whereof is hereby confessed and acknowledged, has granted, bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents do es give, grant, bargain, sell, remise, release, convey and confirm unto the said part y of the second part, its successors ~~heirs~~ and assigns forever, the following described real estate situated in the County of Door, and State of Wisconsin, to-wit:

A tract of land situated in Sections 7 and 8 Township 27 North of Range 26 East, Assessors Map subdivisions 76 and 77 of the City of Sturgeon Bay more particularly described as follows; Beginning at a point on the shore of Sturgeon Bay 706 feet southerly of the South line of the Crary Canning Co. and running thence South 46° west 1155 feet to the center of the Clay Banks road, thence southeasterly along the center of the Clay Banks road 367 feet, thence North 42° east 1064 feet to the dividing line between Jacobs and Gigot, thence northerly along said line 175 feet more or less to the shore of Sturgeon Bay, thence northwesterly along the shore 184 feet to the place of beginning, including the water privileges and all riparian rights and excluding the railroad right of way.

($1.50 U. S. I. R.)
(Stamps cancelled)

TOGETHER with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all the estate, right, title, interest, claim or demand whatsoever, of the said part y of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

TO HAVE AND TO HOLD the said premises as above described with the hereditaments and appurtenances, unto the said part y of the second part and to its successors ~~heirs~~ and assigns FOREVER.

AND THE SAID Mary Carrington does covenant

herself, her heirs, executors and administrators, does covenant, grant, bargain and agree to and with the said part y of the second part, its successors ~~heirs~~ and assigns, that at the time of the ensealing and delivery of these presents she is well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law in fee simple, and that the same are free and clear from all incumbrances whatever.

And the above bargained premises in the quiet and peaceable possession of the said part y of the second part, its successors ~~heirs~~ and assigns against all and every person or persons lawfully claiming the whole or any part thereof, she will forever WARRANT AND DEFEND.

IN WITNESS WHEREOF, the said part y of the first part ha s hereunto set her hand and seal this 10th day of November, A. D., 19 38.

Signed and Sealed in Presence of

Effie M. Carrington
Ida Herin

Mary L. Carrington (SEAL)

(SEAL)

(SEAL)

(SEAL)

Michigan
STATE OF ~~WISCONSIN~~, } ss.
Schoolcraft County. }

Personally came before me, this 10th day of November, A. D., 19 38,

the above named Mary Carrington

to me known to be the person who executed the foregoing instrument and acknowledged the same.

Received for Record this 23rd day of November A. D., 19 38, at 9:15 o'clock A. M.

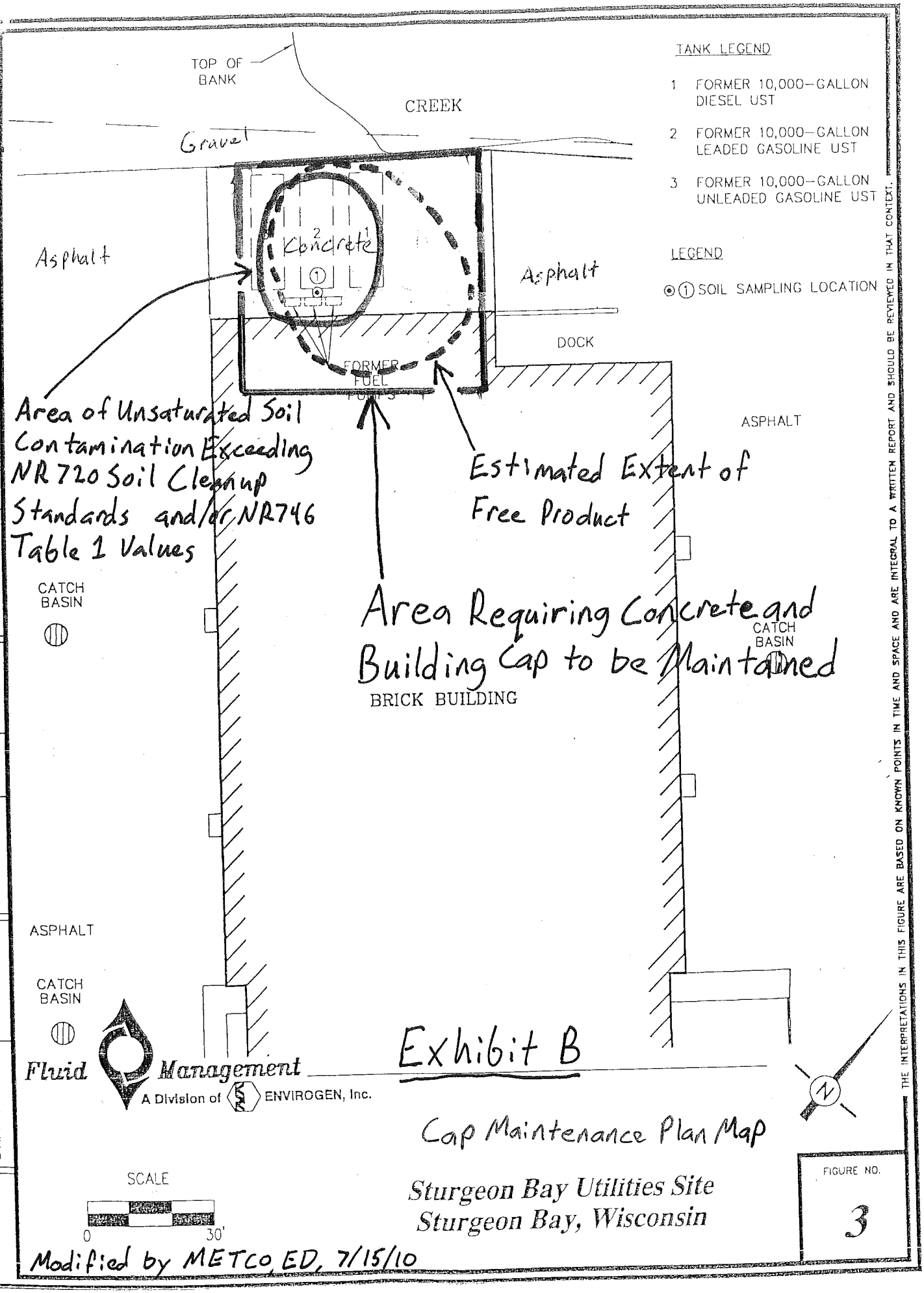
Bert Carmody Register of Deeds.

Mildred Fankhauser Deputy.

Notary SEAL

Roy E. Anderson
Notary Public, Schoolcraft Michigan County, ~~Wis.~~

My Commission expires Nov. 11 A. D., 19 40



DRAWING NO. 97.0038R3 | DRAWN BY: RRT 4/8/98 | CHECKED BY: DRL 4/13/98 | APPROVED BY: [signature] 6/13/98

Fluid Management
A Division of ENVIROGEN, Inc.

Exhibit B

Cap Maintenance Plan Map

Sturgeon Bay Utilities Site
Sturgeon Bay, Wisconsin

FIGURE NO. 3

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

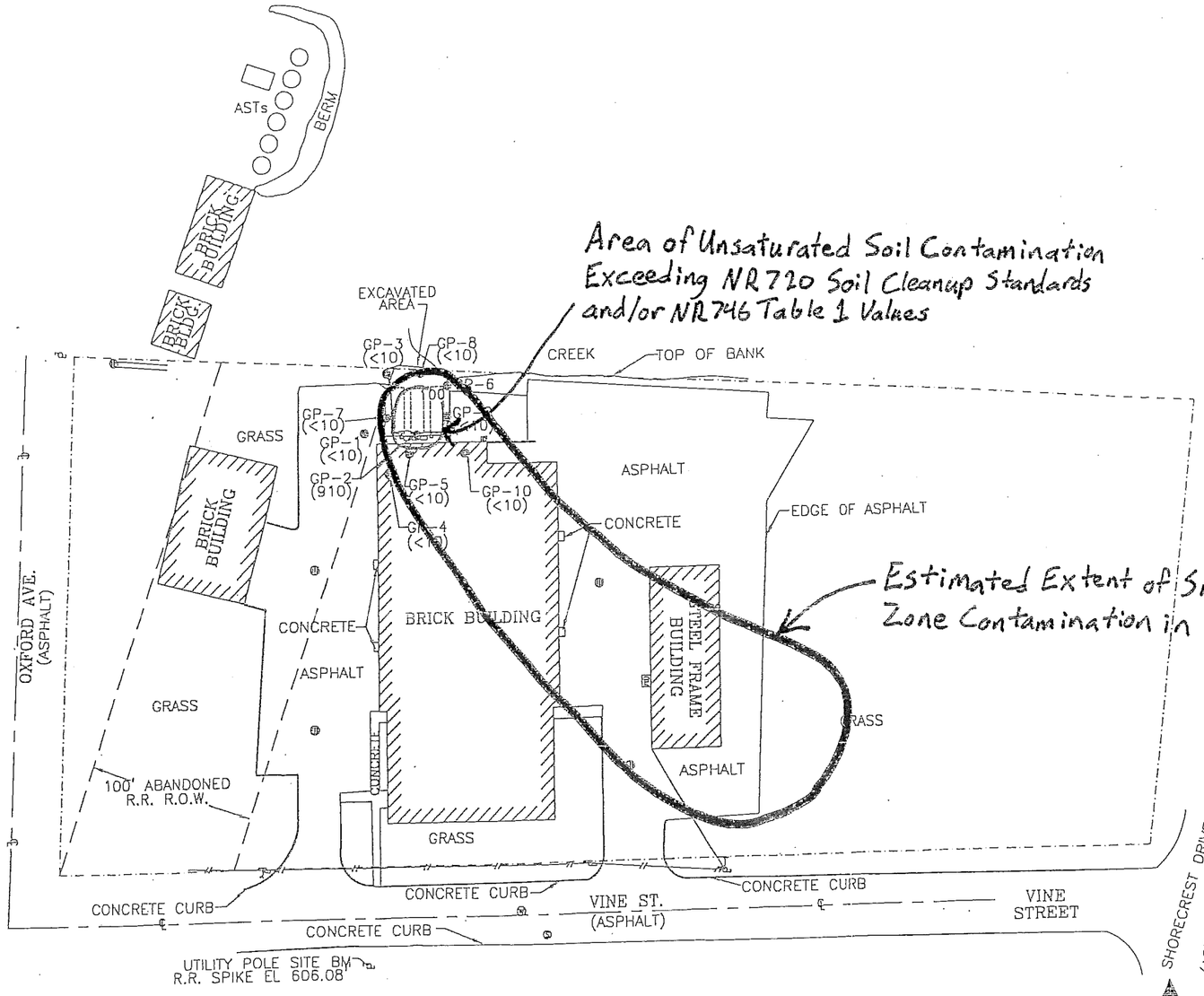
Modified by METCO ED, 7/15/10

Exhibit C

PAVED SURFACE AND BUILDING FOUNDATION INSPECTION LOG – (230 E. Vine Street, Sturgeon Bay, WI)

Inspection Date	Inspector	Condition of Cap	Recommendations	Have Recommendations from previous inspection **been implemented?**

DRAWING NO.	97.0038R8
CHECKED BY:	DRL 4/13/16
DRAWN BY:	RRT 4/8/98
APPROVED BY:	4/13/16



Area of Unsaturated Soil Contamination Exceeding NR720 Soil Cleanup Standards and/or NR746 Table 1 Values

Estimated Extent of Smear Zone Contamination in Bedrock

LEGEND

- APPROXIMATE BOUNDARY LINES
- CATCH BASIN
- GAS METER
- WATER VALVE
- MANHOLE
- OVERHEAD UTILITY LINE
- FORMER UST
- GEOPROBE BORING
- ( ) CONCENTRATION IN ppm
- 100 ISOCONCENTRATION CONTOUR

NOTE: THE NR720 GENERIC SOIL STANDARD FOR DRO IS 100 ppm.

Soil Contamination Map
May 4, 2010

Fluid Management
A Division of ENVIROGEN, Inc.

SCALE
0 20' 40' 60' 80'

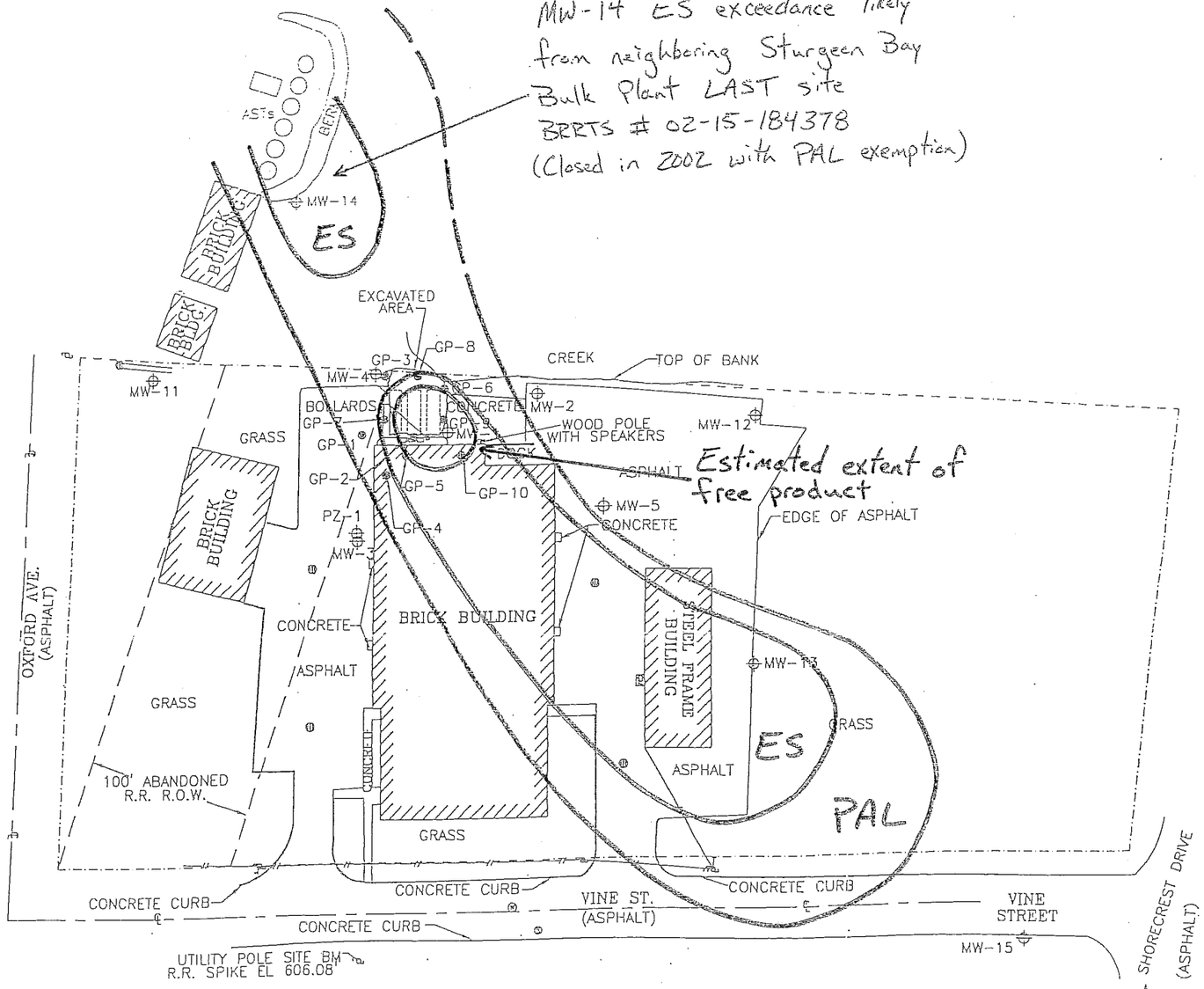
~~Soil DRO Distribution~~
Sturgeon Bay Utilities Site
Sturgeon Bay, Wisconsin

Modified by METCO, ED., 7/15/10

FIGURE NO.
8

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

MW-14 ES exceedance likely from neighboring Sturgeon Bay Bulk Plant LAST site BRRTS # 02-15-184378 (Closed in 2002 with PAL exemption)



LEGEND

- APPROXIMATE BOUNDARY LINES
- CATCH BASIN
- GAS METER
- WATER VALVE
- MANHOLE
- OVERHEAD UTILITY LINE
- FORMER UST
- MONITORING WELL
- PIEZOMETER
- GEOPROBE

Note: Monitoring well MW-1 was not sampled during the most recent event due to the presence of free product (0.5 inches).

Groundwater Contamination Map
May 4, 2010

Fluid Management
A Division of ENVIROGEN, Inc.

SCALE
0 20' 40' 60' 80'

Geoprobe Boring/Monitoring Well Configuration
Sturgeon Bay Utilities Site
Sturgeon Bay, Wisconsin

Modified by MET on BW 6-2-10

FIGURE NO.

DRAWING NO.	DRAWN BY:	CHECKED BY:	APPROVED BY:
97.0038R4	RRT	DRL	
4/8/98	4/13/98		

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

Parcel # 281647600828

50 of Deeds Pg 153

H. C. MILLER CO., MILWAUKEE Y37057

NUMBER 229166A

Indenture, Made this 10th day of November, A. D., 19 38,

Mary Carrington

part y of the first part, and

The City of Sturgeon Bay, a Municipal corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located at Door County, Wisconsin part y of the second part.

WITNESSETH, That the said part y of the first part, for and in consideration of the sum of

Twelve Hundred

Dollars her in hand paid by the said part y of the second part, the receipt whereof is hereby confessed and acknowledged, has granted, bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents does give, grant, bargain, sell, remise, release, convey and confirm unto the said part y of the second part, its successors ~~heirs~~ and assigns forever, the following described real estate situated in the County of Door, and State of Wisconsin, to-wit:

A tract of land situated in Sections 7 and 8 Township 27 North of Range 26 East, Assessors Map subdivisions 76 and 77 of the City of Sturgeon Bay more particularly described as follows; Beginning at a point on the shore of Sturgeon Bay 706 feet southerly of the South line of the Crary Canning Co. and running thence South 46° west 1155 feet to the center of the Clay Banks road, thence southeasterly along the center of the Clay Banks road 367 feet, thence North 42° east 1064 feet to the dividing line between Jacobs and Gigot, thence northerly along said line 175 feet more or less to the shore of Sturgeon Bay, thence northwesterly along the shore 184 feet to the place of beginning, including the water privileges and all riparian rights and excluding the railroad right of way.

($1.50 U. S. I. R.)
(Stamps cancelled)

TOGETHER with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all the estate, right, title, interest, claim or demand whatsoever, of the said part y of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

TO HAVE AND TO HOLD the said premises as above described with the hereditaments and appurtenances, unto the said part y of the second part and to its successors ~~heirs~~ and assigns FOREVER.

AND THE SAID Mary Carrington does covenant

herself, her heirs, executors and administrators, does covenant, grant, bargain and agree to and with the said part y of the second part, its successors ~~heirs~~ and assigns, that at the time of the ensealing and delivery of these presents she is well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law in fee simple, and that the same are free and clear from all incumbrances whatever,

and that the above bargained premises in the quiet and peaceable possession of the said part y of the second part, its successors ~~heirs~~ and assigns against all and every person or persons lawfully claiming the whole or any part thereof, she will forever WARRANT AND DEFEND.

IN WITNESS WHEREOF, the said part y of the first part has hereunto set her hand and seal this 10th day of November, A. D., 19 38.

Signed and Sealed in Presence of

Effie M. Carrington
Ida Herin

Mary L. Carrington (SEAL)

(SEAL)

(SEAL)

(SEAL)

STATE OF ~~WISCONSIN~~, Michigan } ss.
Schoolcraft County.

Personally came before me, this 10th day of November, A. D., 19 38,

the above named Mary Carrington

to me known to be the person who executed the foregoing instrument and acknowledged the same.

Received for Record this 23rd day of November A. D., 19 38, at 9:15 o'clock A. M.

Bert Carmody Register of Deeds.

Mildred Fansbender Deputy.

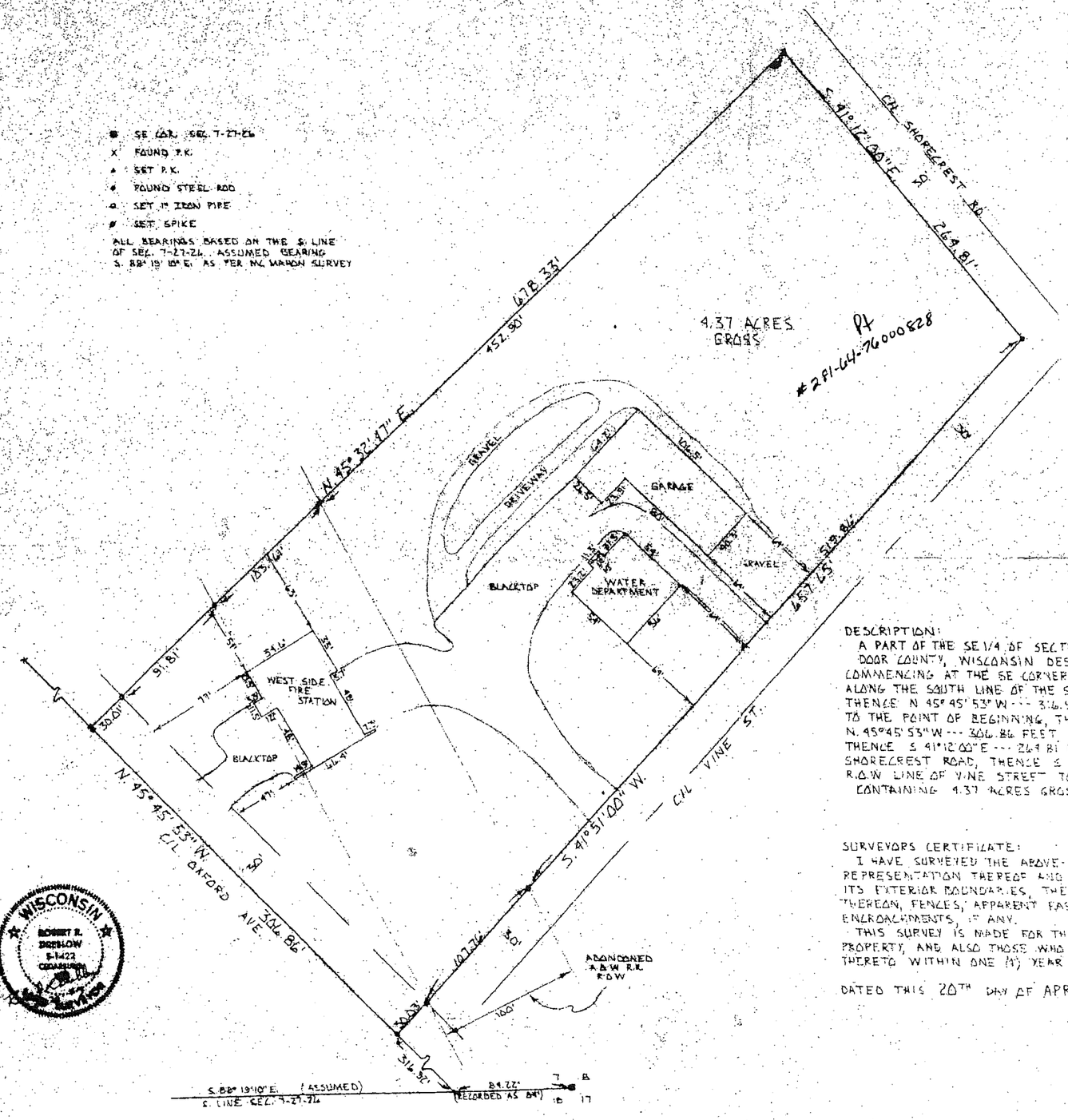
Notary SEAL

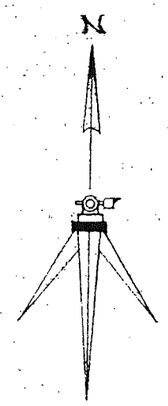
Roy E. Anderson
Notary Public, Schoolcraft Michigan County, ~~Wis.~~

My Commission expires Nov. 11 A. D., 19 40

- ● SE COR. SEC. 7-27-25
- X FOUND P.K.
- ▲ SET P.K.
- ● FOUND STEEL ROD
- ○ SET 1" IRON PIPE
- ⌀ SET SPIKE

ALL BEARINGS BASED ON THE S. LINE OF SEC. 7-27-25. ASSUMED BEARING S. 88° 19' 10" E. AS PER NC MAHON SURVEY





SCALE 1" = 50'

1"-Scale

PREPARED FOR
CITY OF STURGEON BAY
BY
BAUDHUIN INCORPORATED
27 S. MADISON AVE.
STURGEON BAY, WISCONSIN

SE SE, Sec 7 Subd. 76
Pt # 281-64-76000828

DESCRIPTION:
A PART OF THE SE 1/4 OF SECTION 7, T27N, R25E IN THE CITY OF STURGEON BAY, DOOR COUNTY, WISCONSIN DESCRIBED AS FOLLOWS:
COMMENCING AT THE SE CORNER OF SAID SECTION 7, THENCE N 88° 19' 10" E --- 84.22 FEET ALONG THE SOUTH LINE OF THE SE 1/4 OF SAID SECTION 7;
THENCE N 45° 45' 53" W --- 314.92 FEET ALONG THE CENTERLINE OF OXFORD AVENUE TO THE POINT OF BEGINNING, THENCE CONTINUING ALONG SAID CENTERLINE N. 45° 45' 53" W --- 306.86 FEET, THENCE N 45° 32' 47" E --- 678.33 FEET, THENCE S 41° 12' 00" E --- 264.81 FEET ALONG THE SOUTHWESTERLY R.O.W. LINE OF SHORECREST ROAD, THENCE S 41° 51' 00" W --- 657.65 FEET ALONG THE NORTHWESTERLY R.O.W. LINE OF VINE STREET TO THE POINT OF BEGINNING.
CONTAINING 4.37 ACRES GROSS.

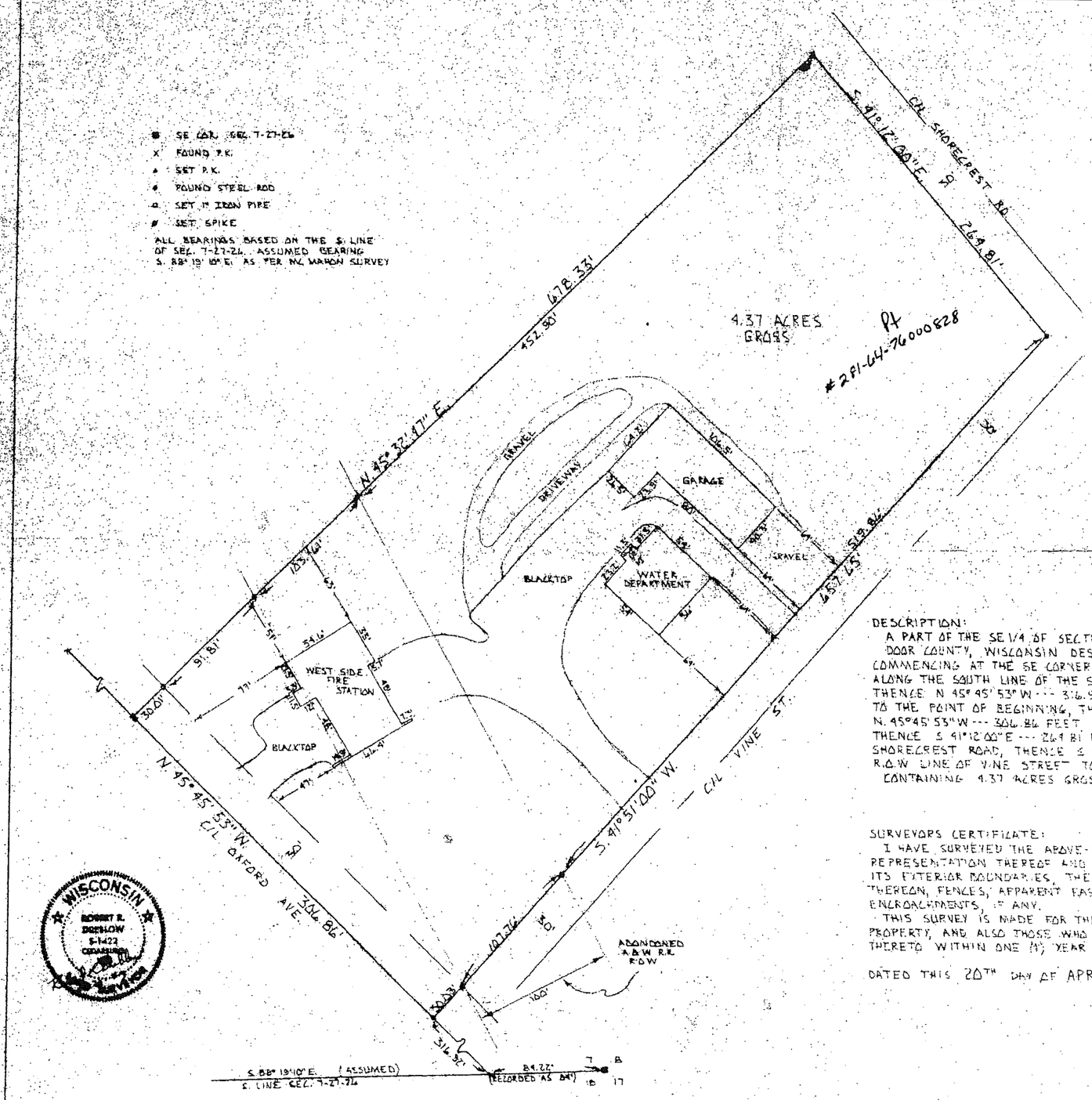
SURVEYORS CERTIFICATE:
I HAVE SURVEYED THE ABOVE-DESCRIBED PROPERTY AND THE ABOVE MAP IS A TRUE REPRESENTATION THEREOF AND SHOWS THE SIZE AND LOCATION OF THE PROPERTY, ITS EXTERIOR BOUNDARIES, THE LOCATION AND DIMENSIONS OF ALL VISIBLE STRUCTURES THEREON, FENCES, APPARENT EASEMENTS AND ROADWAYS AND VISIBLE ENCROACHMENTS, IF ANY.
THIS SURVEY IS MADE FOR THE EXCLUSIVE USE OF THE PRESENT OWNERS OF THE PROPERTY, AND ALSO THOSE WHO PURCHASE, MORTGAGE, OR GUARANTEE THE TITLE THERETO WITHIN ONE (1) YEAR FROM DATE HEREOF.

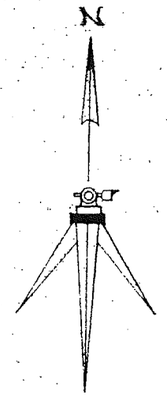
DATED THIS 20TH DAY OF APRIL 1979 Robert R. Dudlow
SURVEYOR

JOB NO. 10089

WISCONSIN ROBERT R. DREHLOW S-1422 COMMISSION

015060





SCALE 1" = 50'

1"-Scale

PREPARED FOR
CITY OF STURGEON BAY
BY
BAUDHUIN INCORPORATED
27 S. MADISON AVE.
STURGEON BAY, WISCONSIN

SE SE, Sec 7 Subd. 76
Pt # 281-64-76000828

DESCRIPTION:
A PART OF THE SE 1/4 OF SECTION 7, T27N, R25E IN THE CITY OF STURGEON BAY, DOOR COUNTY, WISCONSIN DESCRIBED AS FOLLOWS:
COMMENCING AT THE SE CORNER OF SAID SECTION 7, THENCE N 88° 19' 10" E --- 84.22 FEET ALONG THE SOUTH LINE OF THE SE 1/4 OF SAID SECTION 7, THENCE N 45° 45' 53" W --- 314.92 FEET ALONG THE CENTERLINE OF OXFORD AVENUE TO THE POINT OF BEGINNING, THENCE CONTINUING ALONG SAID CENTERLINE N. 45° 45' 53" W --- 306.86 FEET, THENCE N 45° 32' 17" E --- 678.33 FEET, THENCE S 41° 12' 00" E --- 264.81 FEET ALONG THE SOUTHWESTERLY R.O.W. LINE OF SHORECREST ROAD, THENCE S 41° 51' 00" W --- 657.65 FEET ALONG THE NORTHWESTERLY R.O.W. LINE OF VINE STREET TO THE POINT OF BEGINNING.
CONTAINING 4.37 ACRES GROSS.

SURVEYORS CERTIFICATE:
I HAVE SURVEYED THE ABOVE-DESCRIBED PROPERTY AND THE ABOVE MAP IS A TRUE REPRESENTATION THEREOF AND SHOWS THE SIZE AND LOCATION OF THE PROPERTY, ITS EXTERIOR BOUNDARIES, THE LOCATION AND DIMENSIONS OF ALL VISIBLE STRUCTURES THEREON, FENCES, APPARENT EASEMENTS AND ROADWAYS AND VISIBLE ENCROACHMENTS, IF ANY.
THIS SURVEY IS MADE FOR THE EXCLUSIVE USE OF THE PRESENT OWNERS OF THE PROPERTY, AND ALSO THOSE WHO PURCHASE, MORTGAGE, OR GUARANTEE THE TITLE THERETO WITHIN ONE (1) YEAR FROM DATE HEREOF.

DATED THIS 20TH DAY OF APRIL 1979 Robert R. Dudlow
SURVEYOR

JOB NO. 10089

WISCONSIN ROBERT R. DUDLOW S-1422 DOOR COUNTY

015060

See Map 0832

Skyline of Quantedet

City of S.B

Nautical Drive

000822

000823

000101

000102

000103

000827

281-64-77

000828A
.28 ac

Lot 3

000200
.42 ac

DPZ Investments

000828

SUBDIVISION 76
281-64-76

Shorecrest Road

SUBDIVISION 77
281-64-77

000300B1
18.43 ac

000300A
6.39 ac

East Vine

000829A
.51 ac
CSM Bk. 39 Pg. 29

000830
.26 ac

000829B
.24 ac
LOT 2

000831

000832

000833

000842

000834

000835

000837

000838

000839

000840

000813

000814
1.14 ac

000817
.68 ac

000818A
4.10 ac
LOT 1

000815
1.06 ac

000816

000828
11.02 ac

000843
4.74 ac

S. Neenah Ave.

S. Oxford Ave.

State Highway '42-57'

CSM Vol. 13 Pg. 13

CSM Vol. 19 Pg. 30

CSM Vol. 11 Pg. 142

NOTE: This map is only as accurate and is limited to the quality substitute for an actual field and local assessor with tax

Described parcels were "fifth

WDNR BRRTS Case #: 03-15-114878

WDNR Site Name: Sturgeon Bay Utilities

Geographic Information System (GIS) Registry of Closed Remediation Sites

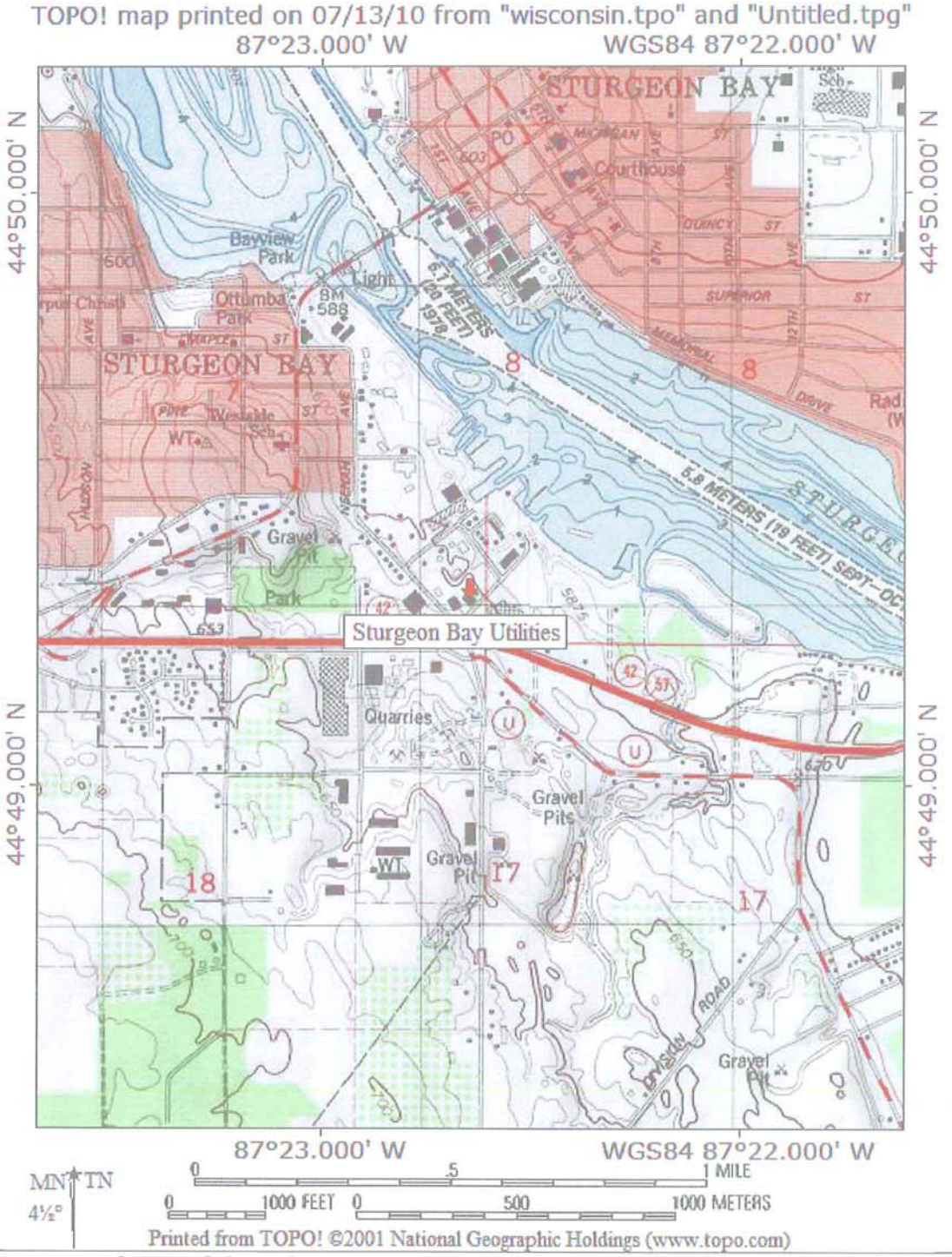
In compliance with the revisions to the NR 700 rule series requiring certain closed sites to be listed on the Geographic Information System (GIS) Registry of Closed Remediation Sites (Registry) effective Nov., 2001, I have provided the following information.

To the best of my knowledge the legal descriptions provided and attached to this statement are complete and accurate.

Responsible Party:

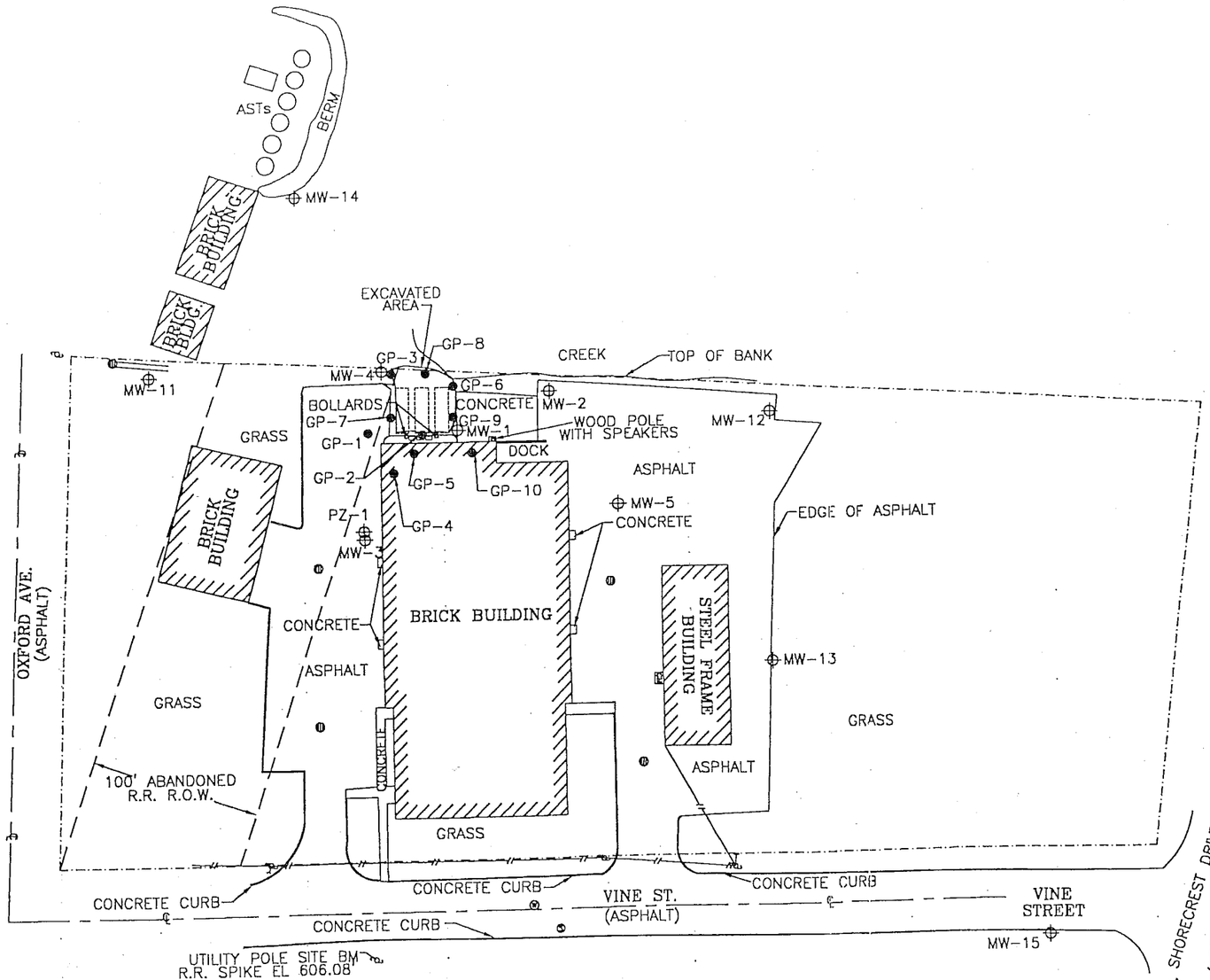
Laurie Baudry Accountant
(print name/title)

(signature) 7/15/10 (date)



SITE LOCATION MAP – CONTOUR INTERVAL 10 FEET
STURGEON BAY UTILITIES – STURGEON BAY, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM

DRAWING NO.	97.0038R4
DRAWN BY:	RRT
CHECKED BY:	DRL
	4/8/98
APPROVED BY:	4/13/98
	4/13/98



LEGEND

- APPROXIMATE BOUNDARY LINES
- CATCH BASIN
- GAS METER
- WATER VALVE
- MANHOLE
- OVERHEAD UTILITY LINE
- FORMER UST
- MONITORING WELL
- PIEZOMETER
- GEOPROBE

Fluid Management
A Division of ENVIROGEN, Inc.

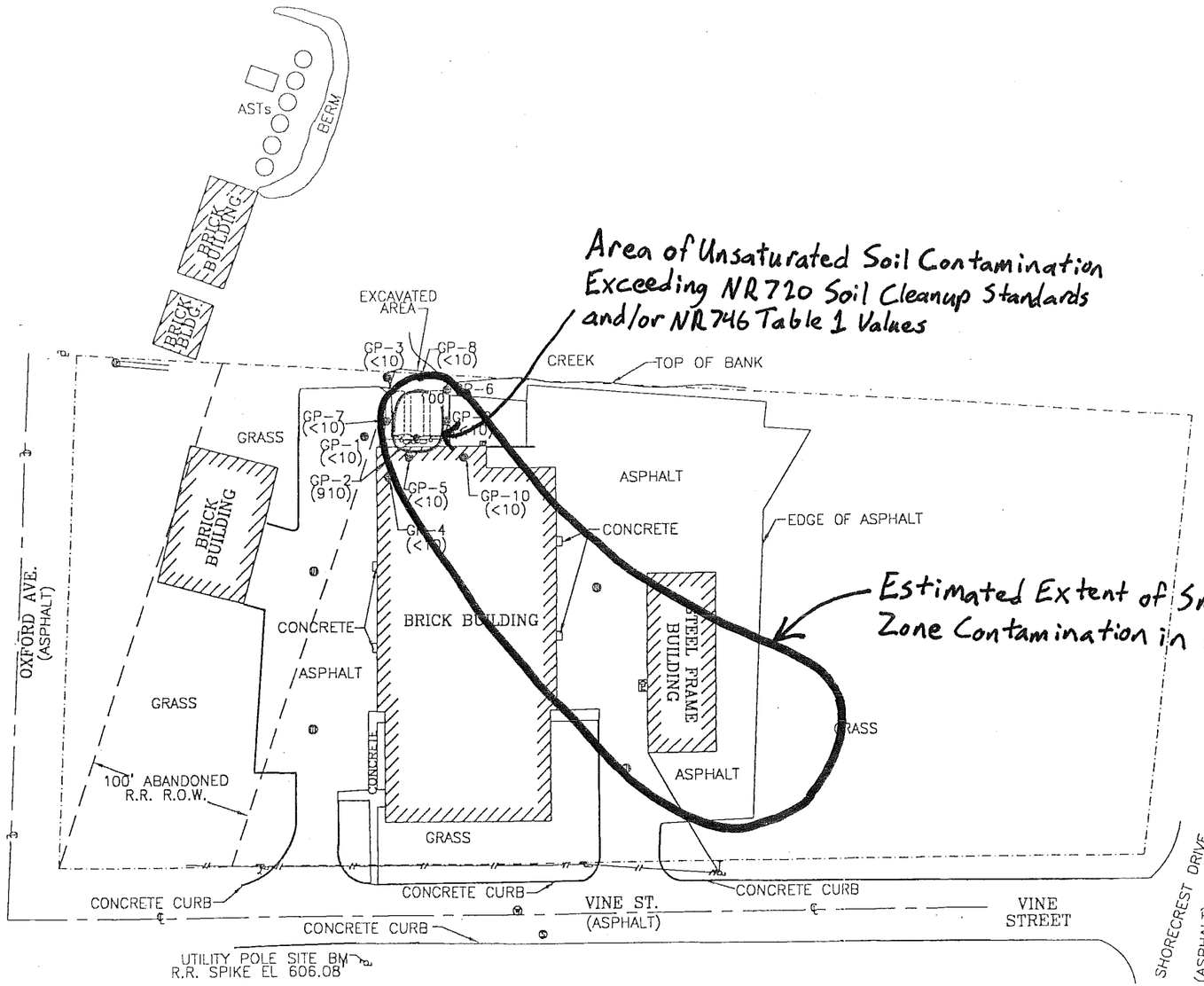
SCALE
0 20' 40' 60' 80'

Geoprobe Boring/Monitoring Well Configuration
Sturgeon Bay Utilities Site
Sturgeon Bay, Wisconsin

FIGURE NO.

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

DRAWING NO.	97.0038R8
DRAWN BY:	RRT
	4/8/98
CHECKED BY:	DRL
	4/13/98
APPROVED BY:	MMF
	4/13/98



LEGEND

- APPROXIMATE BOUNDARY LINES
- CATCH BASIN
- GAS METER
- WATER VALVE
- MANHOLE
- OVERHEAD UTILITY LINE
- FORMER UST
- GEOPROBE BORING
- ( ) CONCENTRATION IN ppm
- 100 ISOCONCENTRATION CONTOUR

NOTE: THE NR720 GENERIC SOIL STANDARD FOR DRO IS 100 ppm.

Soil Contamination Map
May 4, 2010

Fluid Management
A Division of ENVIROGEN, Inc.

SCALE
0 20' 40' 60' 80'

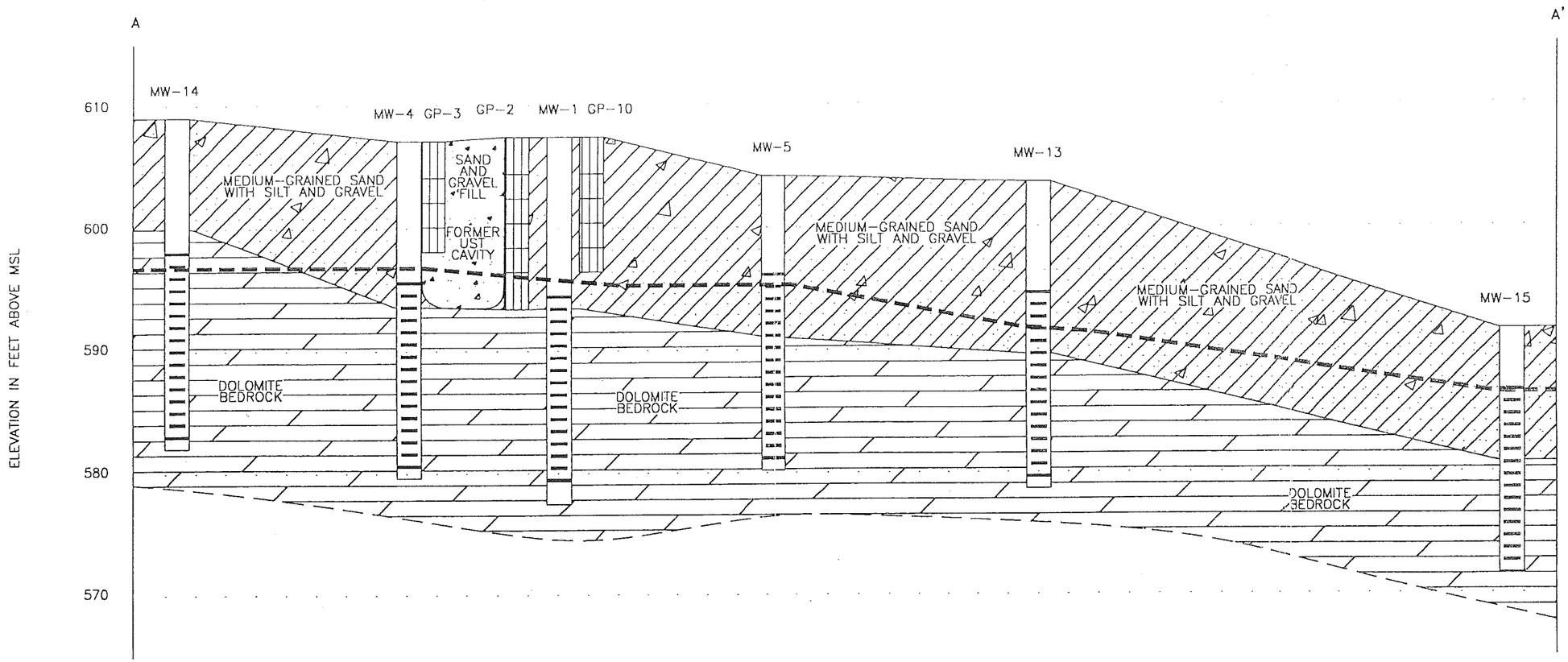
~~Soil DRO Distribution~~
Sturgeon Bay Utilities Site
Sturgeon Bay, Wisconsin

Modified by METCO, ED. 7/15/10

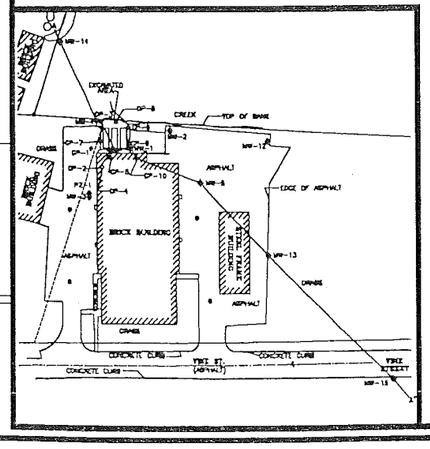
FIGURE NO.
8

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

DRAWING NO.	DRAWN BY:	CHECKED BY:	APPROVED BY:
97.0038R6	RRT	ORL	
4/8/98	4/8/98	4/13/98	



PLAN VIEW



LEGEND

SAMPLE INTERVAL

SCREENED INTERVAL

POTENTIOMETRIC SURFACE (4/7/98)

Fluid Management
A Division of ENVIROGEN, Inc.

SCALE

HORIZONTAL: 1" = 60'

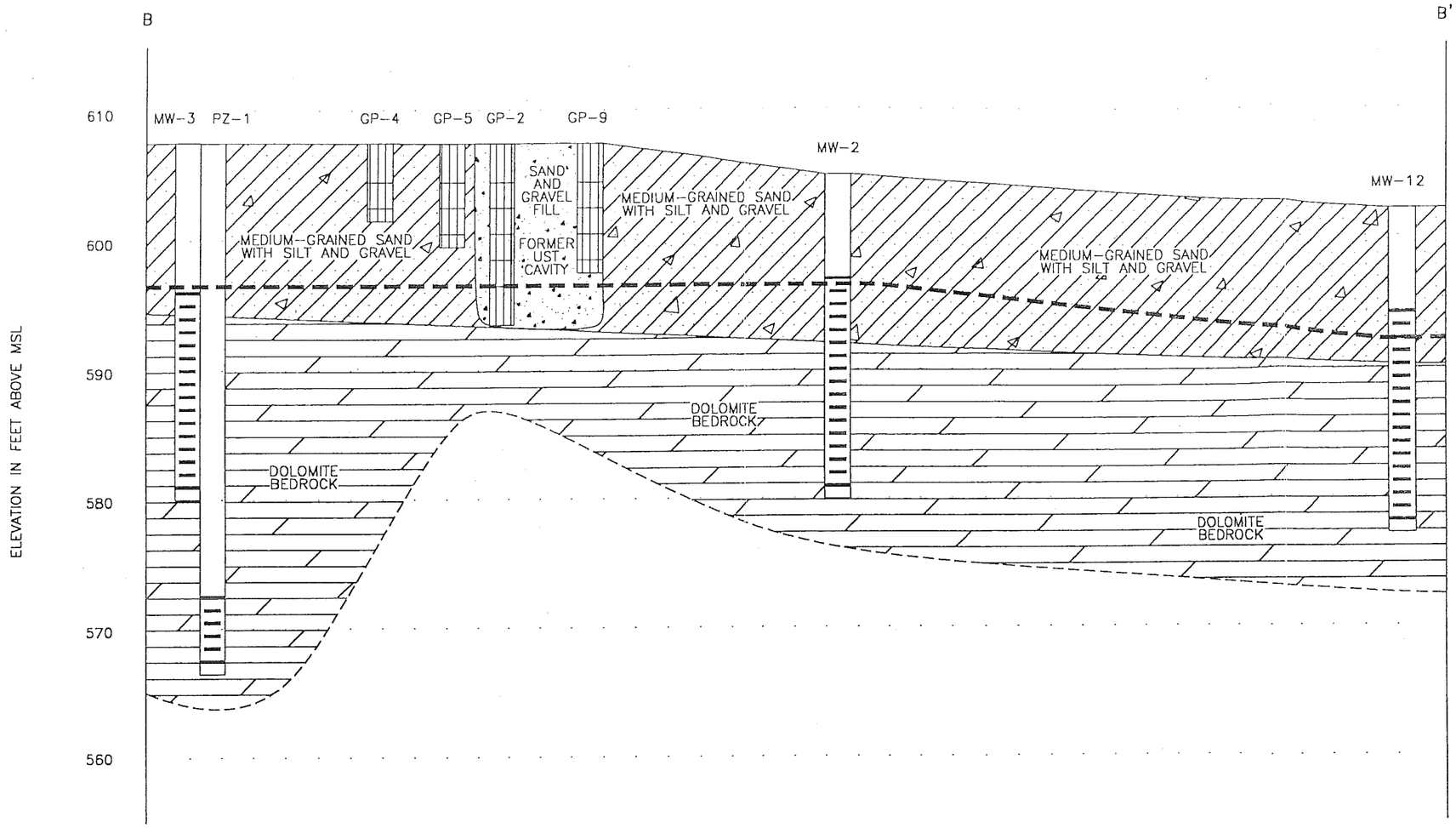
VERTICAL: 1" = 10'

Geologic Cross-Section A-A'
Sturgeon Bay Utilities Site
Sturgeon Bay, Wisconsin

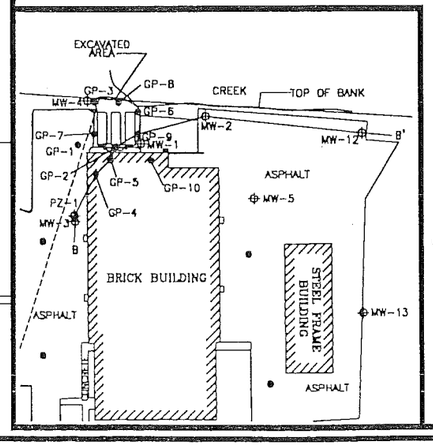
FIGURE NO.
6

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

DRAWING NO.	DRAWN BY:	CHECKED BY:	APPROVED BY:
97.0038R7	RRT 4/8/98	DRL 4/8/98	4/13/98



PLAN VIEW



LEGEND

SAMPLE INTERVAL

SCREENED INTERVAL

POTENTIOMETRIC SURFACE (4/7/98)

Fluid Management
A Division of ENVIROGEN, Inc.

SCALE

HORIZONTAL: 1" = 30'

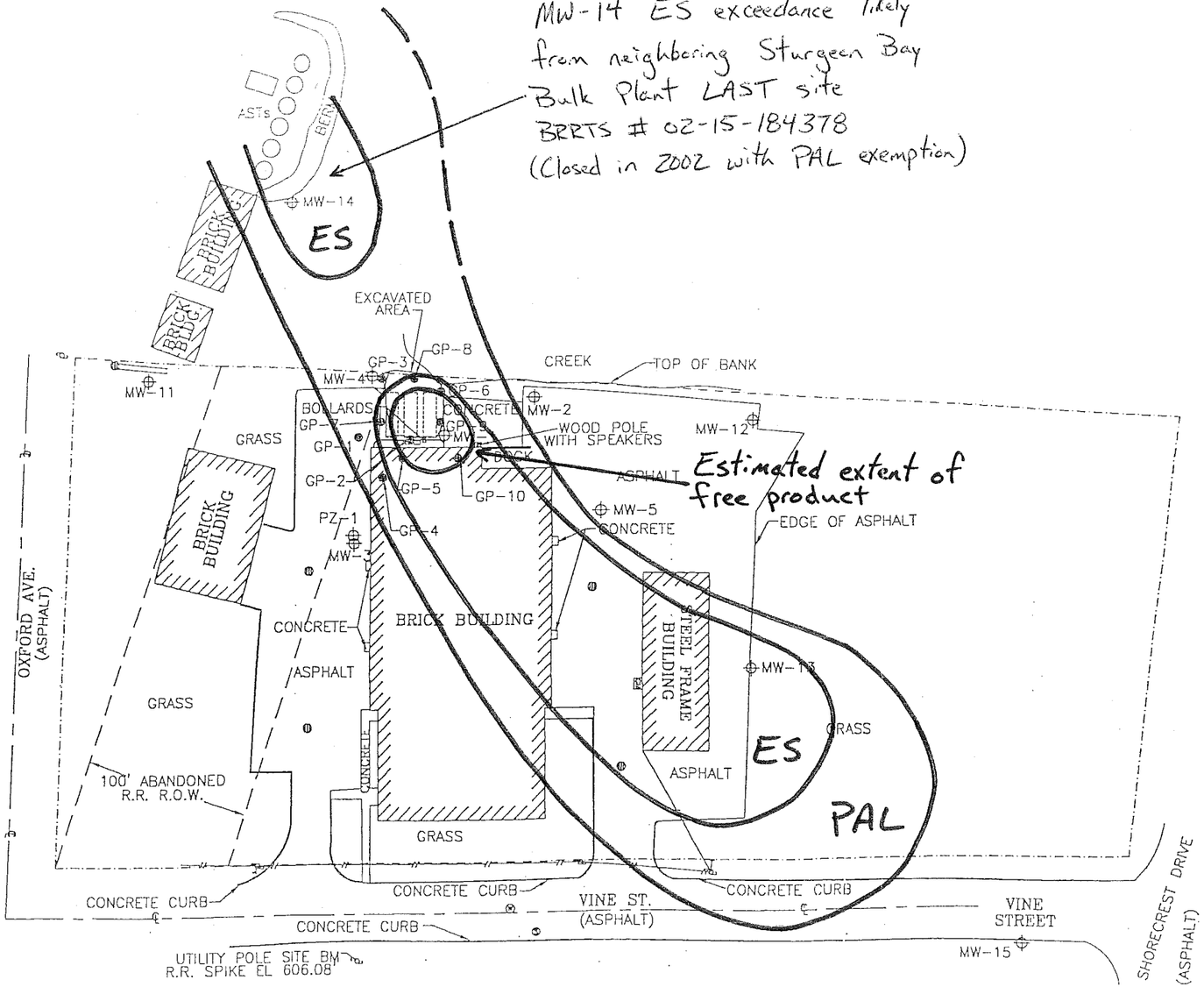
VERTICAL: 1" = 10'

Geologic Cross-Section B-B'
Sturgeon Bay Utilities Site
Sturgeon Bay, Wisconsin

FIGURE NO. 7

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

MW-14 ES exceedance likely from neighboring Sturgeon Bay Bulk Plant LAST site BRRTS # 02-15-184378 (Closed in 2002 with PAL exemption)



LEGEND

- APPROXIMATE BOUNDARY LINES
- CATCH BASIN
- GAS METER
- WATER VALVE
- MANHOLE
- OVERHEAD UTILITY LINE
- FORMER UST
- MONITORING WELL
- PIEZOMETER
- GEOPROBE

Note: Monitoring well MW-1 was not sampled during the most recent event due to the presence of free product (0.5 inches).

Groundwater Contamination Map

May 4, 2010

Fluid Management
A Division of ENVIROGEN, Inc.

SCALE
0 20' 40' 60' 80'

Geoprobe Boring/Monitoring Well Configuration
Sturgeon Bay Utilities Site
Sturgeon Bay, Wisconsin

Modified by METCalf&V 6-2-10

FIGURE NO.

DRAWING NO.	DRAWN BY:	CHECKED BY:	APPROVED BY:
97.0038R4	RRT	DRL	
4/8/98	4/8/98	4/13/98	

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

DRAWING NO.	97.0038R4
DRAWN BY:	RRT
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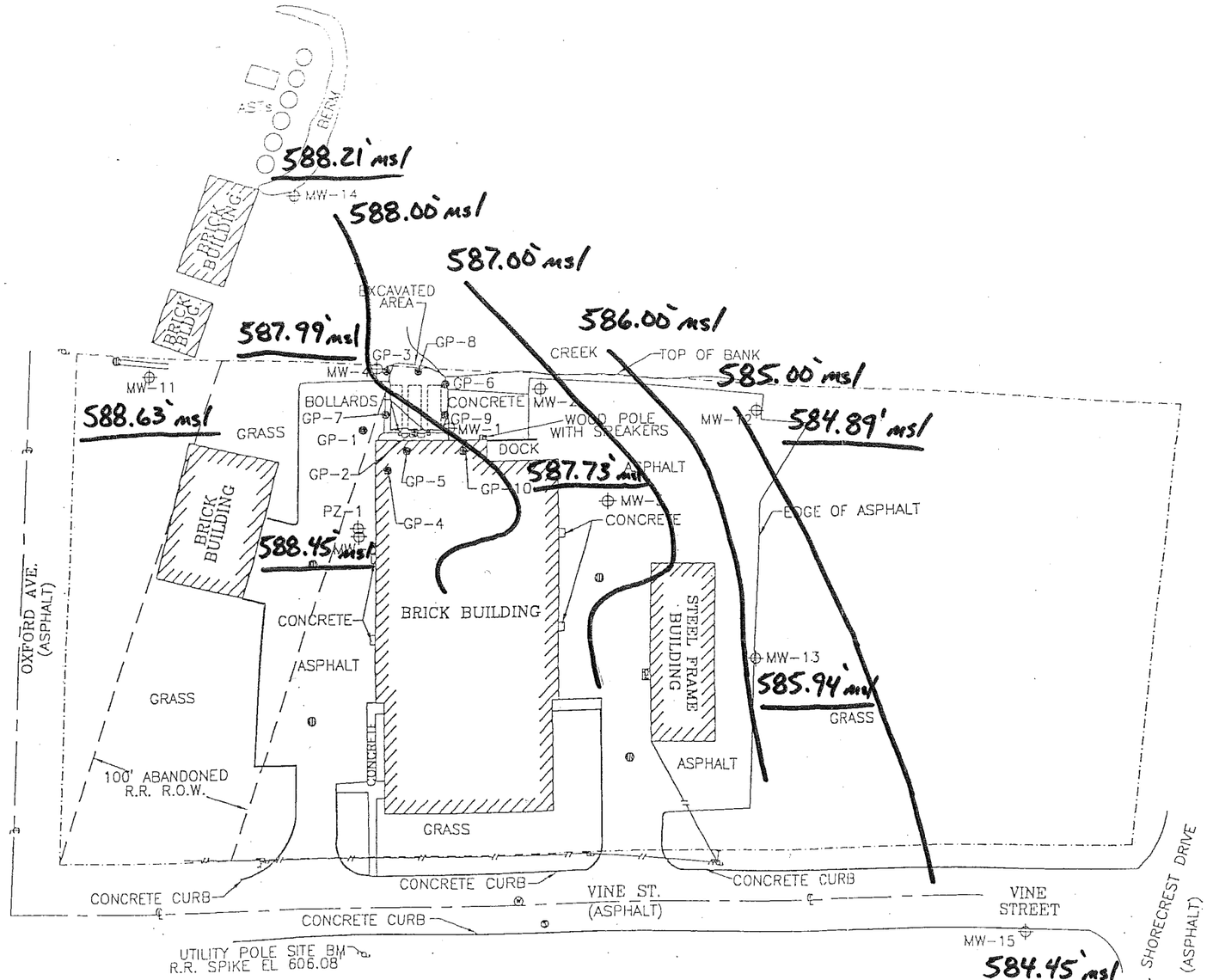
CHECKED BY:	DRL
	4/13/98
APPROVED BY:	
	4/13/98



LEGEND

- APPROXIMATE BOUNDARY LINES
- CATCH BASIN
- GAS METER
- WATER VALVE
- MANHOLE
- OVERHEAD UTILITY LINE
- FORMER UST
- MONITORING WELL
- PIEZOMETER
- GEOPROBE

Groundwater Contour Map
May 4, 2010

Fluid Management
A Division of ENVIROGEN, Inc.

SCALE
0 20' 40' 60' 80'

Geoprobe Boring/Monitoring Well Configuration
Sturgeon Bay Utilities Site
Sturgeon Bay, Wisconsin

Modified by METCO/BW 6-2-10

FILE NO.

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

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APPROVED BY:	
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	4/13/98
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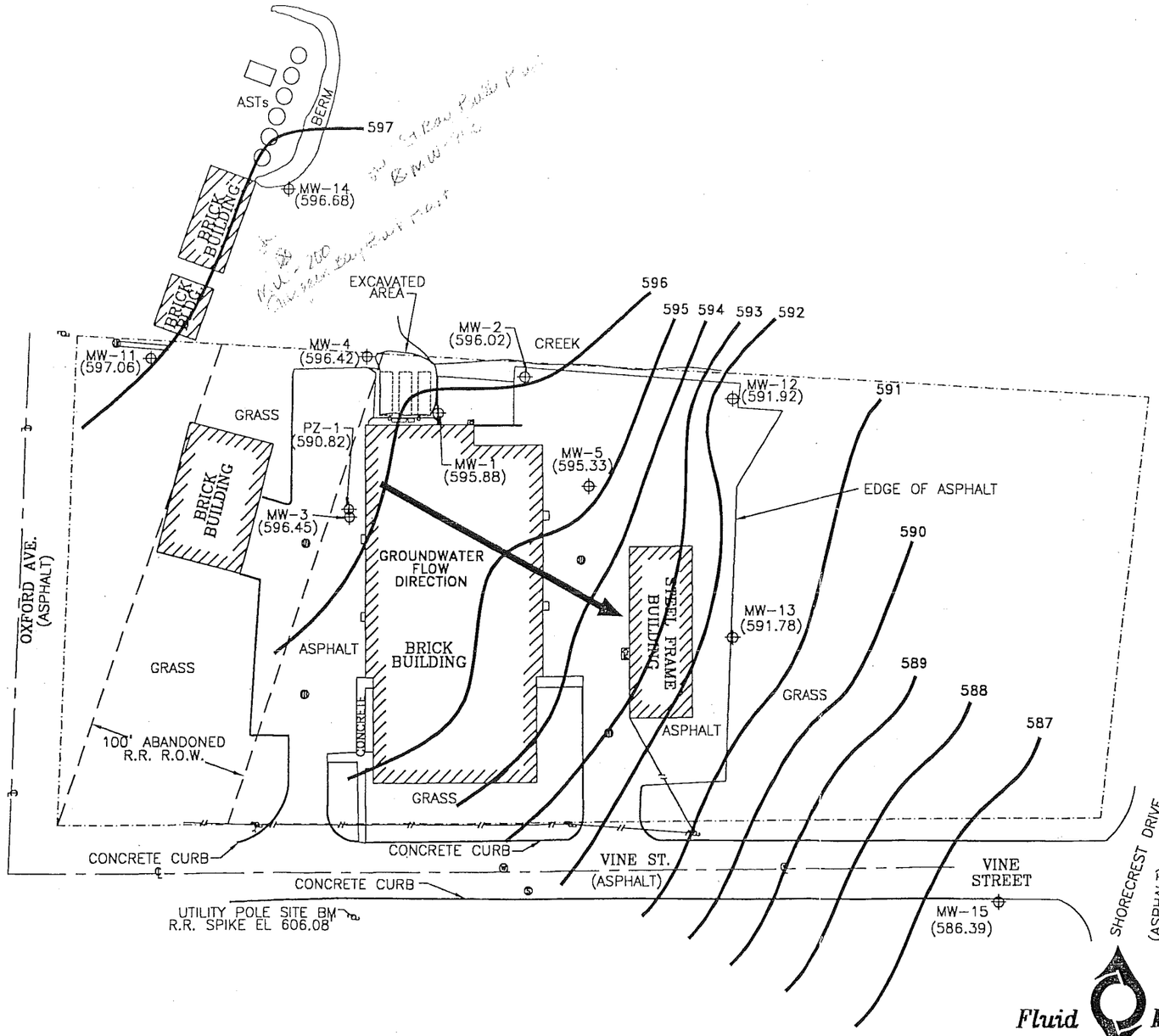


LEGEND

- APPROXIMATE BOUNDARY LINES
- CATCH BASIN
- GAS METER
- WATER VALVE
- MANHOLE
- OVERHEAD UTILITY LINE
- FORMER UST
- MONITORING WELL
- PIEZOMETER
- ( ) GROUNDWATER ELEVATION IN FEET ABOVE MSL
- 590 ISOELEVATION CONTOUR

NOTE: HYDRAULIC GRADIENT = dh/dl = 1.6 X 10^{-2} ft/ft

Fluid Management
A Division of ENVIROGEN, Inc.

SCALE
0 20' 40' 60' 80'

Potentiometric Surface (4/7/98) Sturgeon Bay Utilities Site Sturgeon Bay, Wisconsin

FIGURE NO. 9

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

TABLE 2

UST Closure Soil Sample Analytical Results
Sturgeon Bay Utilities Site
Sturgeon Bay, Wisconsin
November 5, 1996

Sample	Location (feet bls)	GRO (ppm)	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	Naphthalene
1*	10' below east end of 10,000-gallon leaded gasoline UST	4,100	<1,300	<1,300	7,600	480,000	<1,300	78,000
WDNR NR 720 Generic Soil Standards		100**	5.5	2,900	1,500	4,100	4.9	NS

Notes:

Concentrations in ppb unless otherwise noted

Shading indicates value equals or exceeds the NR 720 generic soil standards

(*): Laboratory reporting limits were elevated due to elevated levels of petroleum contaminants

(**): WDNR site investigation trigger is 10 ppm each for GRO

UST: Underground Storage Tank

bls: Below land surface

GRO: Gasoline range organics

DCA: Dichloroethane

WDNR: Wisconsin Department of Natural Resources

Checked by: DRL

Approved by: MRD

TABLE 3

Soil Sample PID Field Screening and Analytical Results
Sturgeon Bay Utilities Site
Sturgeon Bay, Wisconsin

Boring ID	Date	Depth	PID	GRO (ppm)	DRO (ppm)	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	Naphthalene	Lead (ppm)
GP - 1	4/22/97	5-7	12.5	<10	<10	<25	<25	<25	<75	<25	<25	5
GP - 2	4/22/97	7-9*	7,720	940	910	<500	<500	740	52,000	<500	16,800	7
		13-14*	2,948	360	261	<500	560	1,900	17,300	<500	6,300	5
GP - 3	4/22/97	7-9	<10	<10	<10	<25	<25	<25	<75	<25	<25	3
GP - 4	4/22/97	5-6	<10	<10	<10	<25	<25	<25	30	<25	<25	5
GP - 5	4/22/97	7-8	<10	<10	<10	<25	<25	43	210	<25	<17	3
GP - 6	4/22/97	7-8	<10	<10	<10	<25	<25	<25	<75	<25	<25	6
GP - 7	4/22/97	9-10	<10	<10	<10	<25	<25	<25	260	<25	<17	4
GP - 8	4/22/97	11-13	<10	<10	<10	<25	<25	<25	<75	<25	<17	4
GP - 9	4/22/97	9-10	<10	<10	<10	<25	<25	<25	<75	<25	<17	5
GP - 10	4/22/97	9-11	<10	<10	<10	<25	<25	<25	<75	<25	<25	6
MW-10	12/17/97	12.5-14.5	<10	<10	<10	<25	<25	<25	<50	<25	NA	9
MW-14	2/27/98	8-9	NA	150	<10	<25	150	<25	320	NA	NA	NA
NR 720 Generic Soil Standard‡				100	100	5.5	2,900	1,500	4,100	4.9	NS	50

Notes: All results in ppb unless otherwise noted

Shading indicates value equals or exceeds the NR 720 generic soil standard

(‡): All VOC samples were methanol-preserved. The official WDNR reporting limit for these samples is 25 ppb.

(*): Laboratory analysis revealed detectable concentrations of polynuclear aromatic hydrocarbon constituents.

PID: Photoionization detector GRO: Gasoline range organics

DRO: Diesel range organics DCA: Dichloroethane

NA: Not analyzed NS: No standard

Checked by: DRL

Approved by: MRU

Groundwater Analytical Results Summary
Sturgeon Bay Utilities LUST Site BRRTS# 03-15-114878

Well MW-1
PVC Elevation = 607.45 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
6/20/1997	586.00	21.45	74000	**7**	**2100**	**2600**	**200**	**6000**	**13000**	NS	**15600**
12/18/1997	582.83	24.62	NOT SAMPLED								
3/2/1998	NM	NM	120000	**8**	**170**	**920**	<4.2	**2400**	*580*	**14100**	*9200*
7/24/2002	NM	NM	51000	NS	**76**	110	*32J*	*30*	<32	**550-586**	590
10/4/2004	NM	NM	NS	NS	**257**	*150*	**64.8**	NS	*362*	**1001**	*1086*
3/7/2006	NM	NM	NS	NS	**40**	81	<9.2	*93*	51	**1790**	650
2/22/2007	NM	NM	NS	NS	<47	*166*	<52	NS	<46	**1420**	*1040*
6/13/2007	NM	NM	NS	NS	**55**	*160*	8.2	NS	16.9	**1307**	*1003*
3/13/2008	588.27	19.18	NOT SAMPLED - FREE PRODUCT PRESENT								
6/12/2008	588.65	18.80	NOT SAMPLED - FREE PRODUCT PRESENT								
9/4/2008	NOT SAMPLED - FREE PRODUCT PRESENT										
12/2/2008	581.92	25.53	NOT SAMPLED - FREE PRODUCT PRESENT								
5/4/2010	587.51	19.94	NOT SAMPLED – FREE PRODUCT PRESENT								

Well MW-2
PVC Elevation = 604.95 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
6/20/1997	587.50	17.45	14000	*2*	**22**	*360*	<3.6	**130**	*500*	NS	2200
12/18/1997	588.14	16.81	<1	<0.21	<0.21	<2.1	<0.21	1.5	0.48	NS	<13
7/24/2002	NM	NM	<100	NS	<0.43	<0.49	<0.49	0.15J	<0.63	0.5J	<1.5
10/4/2004	NM	NM	NS	NS	<0.31	6.41	<0.3	NS	5.53	9.17	4.06
3/7/2006	NM	NM	NS	NS	*2.6*	15	<0.23	<0.40	1.3	30-30.19	6.0
2/22/2007	NM	NM	NS	NS	<0.47	<0.38	<0.52	NS	<0.46	<1.2	<0.99
6/13/2007	NM	NM	NS	NS	<0.22	<0.44	<0.53	NS	<0.26	<0.45	<1.21
3/13/2008	588.81	16.14	NS	*1.4*	*0.86*	9.5	<0.7	0.58	<0.39	41-41.23	7.12
6/12/2008	588.12	16.83	NS	*4.8*	*4.9*	6.8	2.88	0.75	0.91	35.7	11.3
9/4/2008	587.38	17.57	NS	<0.7	*1.77*	2.47	<0.62	0.16	1.8	<1.42	<1.85
12/2/2008	587.61	17.34	NS	<0.7	0.35	0.51	<0.7	0.13	<0.39	0.71-0.94	<1.67
5/4/2010	587.35	17.60	NOT SAMPLED								

Well MW-3
PVC Elevation = 607.50 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
6/20/1997	587.79	19.71	7700	*2*	**5.4**	66	<1.8	*41*	58	NS	460
12/18/1997	588.08	19.42	NS	**5**	**13**	14	3.1	*27*	29	NS	390
7/24/2002	NM	NM	<100	NS	<0.43	<0.49	<0.49	<0.067	<0.63	0.95-1.67	<1.5
10/4/2004	NM	NM	NS	NS	<0.31	<0.5	<0.3	NS	1.10	<0.71	<0.92
3/7/2006	NM	NM	NS	NS	<0.25	<0.22	<0.23	<1.0	<0.11	<0.44	<0.39
2/22/2007	NM	NM	NS	NS	<0.47	<0.38	<0.52	NS	<0.46	<1.57	<0.99
6/13/2007	NM	NM	NS	NS	<0.22	<0.44	<0.53	NS	<0.26	<0.67	<1.21
3/13/2008	590.36	17.14	NOT SAMPLED								
6/12/2008	589.90	17.60	NOT SAMPLED								
9/4/2008	587.96	19.54	NOT SAMPLED								
12/2/2008	587.92	19.58	NOT SAMPLED								
5/4/2010	588.45	19.05	NOT SAMPLED								

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.

Groundwater Analytical Results Summary
Sturgeon Bay Utilities LUST Site BRRTS# 03-15-114878

Well MW-4
PVC Elevation = 607.10 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
6/20/1997	587.67	19.43	83000	**5**	**2200**	**3400**	**100**	**18900**	**16000**	NS	**18000**
12/18/1997	587.17	19.93	NS	**8**	**20**	62	*34*	*95*	140	NS	510
7/24/2002	NM	NM	1600	NS	*1.1J*	10	<0.49	2.9	3.4	57	50
10/4/2004	NM	NM	NS	NS	<15.5	*168*	<15	NS	148	**3970**	*1208*
3/7/2006	NM	NM	NS	NS	*1.5*	3.3	<0.23	0.46	0.70	9.9	10
2/22/2007	NM	NM	NS	NS	<0.47	<0.38	<0.52	NS	<0.46	<1.57	<0.99
6/13/2007	NM	NM	NS	NS	0.41J	<0.44	<0.53	NS	<0.26	<0.67	<1.21
3/13/2008	590.67	16.43	NS	*1.4*	<0.24	<0.35	<0.7	<0.02	<0.39	<0.74	<1.67
6/12/2008	589.88	17.22	NS	<0.7	<0.49	<0.68	<0.62	<0.015	<0.46	<1.42	<1.85
9/4/2008	585.73	21.37	NS	*2.2*	<0.49	1.44	<0.62	0.11	<0.46	0.77-1.45	<1.85
12/2/2008	584.94	22.16	NS	*2.8*	<0.24	<0.35	<0.7	0.030	<0.39	<0.74	<1.67
5/4/2010	587.99	19.11	NOT SAMPLED								

Well MW-5
PVC Elevation = 604.19 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
6/20/1997	587.59	16.60	22000	*1*	**140**	**950**	<9	370	**2400**	NS	*6300*
12/18/1997	588.00	16.19	NS	<1	**22**	*280*	4.9	140	73	NS	*1600*
7/24/2002	NM	NM	2400	NS	**13**	66	<0.49	7.7	4.8	*428*	140
10/4/2004	NM	NM	NS	NS	**5.28**	56	<3.0	NS	14.3	*419*	89.3
3/7/2006	NM	NM	NS	NS	**9.1**	41	<0.23	1.2	1.3	81-81.19	14
2/22/2007	NM	NM	NS	NS	<0.47	1.14J	<0.52	NS	<0.46	1.54J-1.91	<0.99
6/13/2007	NM	NM	NS	NS	**10.4**	18.4	1.02J	NS	1.1	30.722J	5.48
3/13/2008	588.63	15.56	NS	*1.0*	**42**	103	<7	*18.7*	<3.9	314.3	133.3
6/12/2008	588.56	15.63	NS	<0.7	*3.3*	4.5	<0.62	1.02	1.02	19.3	9.05
9/4/2008	587.52	16.67	NS	<0.7	*0.76*	1.52	<0.62	0.05	0.85	<1.42	<1.85
12/2/2008	587.58	16.61	NS	<0.7	<0.24	0.49	<0.7	0.135	<0.39	<0.74	<1.67
5/4/2010	587.73	16.46	NOT SAMPLED								

Well MW-10
PVC Elevation = NM (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
12/18/1997	NM	NM	3000	<1	**430**	*370*	<3.6	*16*	160	NS	620

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.

Groundwater Analytical Results Summary
Sturgeon Bay Utilities LUST Site BRRTS# 03-15-114878

Well MW-11
PVC Elevation = 610.12 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
12/18/1997	586.20	23.92	2800	<1	**33**	*340*	<3.6	*37*	42	NS	709
7/24/2002	NM	NM	<100	NS	<0.43	<0.49	<0.49	0.15J	<0.63	NS	<1.5
10/4/2004	NM	NM	NS	NS	*2.77*	8.14	6.03	NS	15.5	1J-1.72	10.97
3/7/2006	NM	NM	NS	NS	*1.7*	4.0	<0.46	0.69	0.90	10.78	4.7
2/22/2007	NM	NM	NS	NS	<0.47	<0.38	<0.52	NS	<0.46	<1.57	<0.99
6/13/2007	NM	NM	NS	NS	<0.22	<0.44	<0.53	NS	<0.26	<0.67	<1.21
3/13/2008	COULD NOT ACCESS										
6/12/2008	589.51	20.61	NOT SAMPLED								
9/4/2008	586.03	24.09	NOT SAMPLED								
12/2/2008	585.20	24.92	NOT SAMPLED								
5/4/2010	588.63	21.49	NOT SAMPLED								

Well MW-12
PVC Elevation = 602.16 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
12/18/1997	587.29	14.87	360	<1	<0.1	0.8	<0.18	0.54	0.38	NS	3.66
7/24/2002	NM	NM	<100	NS	<0.43	<0.49	<0.49	0.38	<0.63	<1.19	<1.5
10/4/2004	NM	NM	NS	NS	<0.31	<0.5	<0.3	NS	8.59	<0.71	<0.92
3/7/2006	NM	NM	NS	NS	<0.25	0.99	<0.23	1.5	0.14	2.65	1.3
2/22/2007	NM	NM	NS	NS	<0.47	<0.38	<0.52	NS	<0.46	<1.57	<0.99
6/13/2007	NM	NM	NS	NS	*4.1*	26.3	<0.53	NS	1.43	81.5	50.82J
3/13/2008	586.42	15.74	NS	<0.7	<0.24	<0.35	<0.7	<0.02	<0.39	<0.74	<1.67
6/12/2008	586.44	15.72	NS	<0.7	<0.49	<0.68	<0.62	<0.0135	<0.46	<1.42	<1.85
9/4/2008	582.90	19.26	NS	1.2	*4.8*	14.4	<0.62	2.91	2.96	87.1	32.37
12/2/2008	582.72	19.44	NS	<0.7	<0.24	<0.35	<0.7	<0.015	<0.39	<0.74	<1.67
5/4/2010	584.89	17.27	NOT SAMPLED								

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.

Groundwater Analytical Results Summary
Sturgeon Bay Utilities LUST Site BRRTS# 03-15-114878

Well MW-13
PVC Elevation = 603.64 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
12/18/1997	585.66	17.98	56000	**12**	89	**900**	<9	**340**	**1600**	NS	*4000*
7/24/2002	NM	NM	17000	NS	<43	**1200**	<49	**430**	85J	**2820**	*4400*
10/4/2004	NM	NM	NS	NS	<3.1	24.4	<3.0	NS	90.8	**533.9**	86.9
3/7/2006	NM	NM	NS	NS	<12	*670*	<12	**270**	<5.5	**9300**	*1800*
2/22/2007	NM	NM	NS	NS	<2.35	12.6	<2.6	NS	<2.3	*202*	19.8J
6/13/2007	NM	NM	NS	NS	**140**	52	<5.3	NS	22	*430*	103
3/13/2008	585.97	17.67	NS	**18**	<2.4	9.0	<7	**211**	<3.9	*185.2*	11-17.7
6/12/2008	587.02	16.62	NS	**29.6**	**8.4**	14.2	<0.62	**109**	5.9	77.6	25.5
9/4/2008	NOT SAMPLED - FREE PRODUCT PRESENT										
12/2/2008	582.26	21.38	NS	*2.7*	*0.84*	5.3	<0.7	**940**	<0.39	103.75	4.68
5/4/2010	585.94	17.7	NS	NS	*0.92*	7.1	<0.25	4.6	<0.72	22.4-22.94	2.91

Well MW-14
PVC Elevation = 609.05 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
3/2/1998	591.77	17.28	17000	**19**	*4.4*	*640*	<3.6	**470**	27	NS	*3670*
7/24/2002	NM	NM	5700	NS	<22	120	<25	7.1	<32	**1110**	440
10/4/2004	NM	NM	NS	NS	<1.55	<2.5	<1.5	NS	30.8	12.98	7.33
3/7/2006	NM	NM	NS	NS	**5.2**	<0.44	<0.46	0.83	<0.22	85	13
2/22/2007	NM	NM	NS	NS	<0.47	<0.38	<0.52	NS	<0.46	1.52-1.89	0.70-1.37
6/13/2007	NM	NM	NS	NS	*3.9*	0.62J	<0.53	NS	2.39	32.5	9.9
3/13/2008	594.23	14.82	NS	**20**	*0.53*	2.65	<0.7	*88*	<0.39	37-37.23	1.65-2.65
6/12/2008	591.83	17.22	NS	**16.5**	*1.73*	3.3	<0.62	**269**	2.13	18.3-18.98	1.92-3.35
9/4/2008	593.96	15.09	NS	*4*	*0.94*	2.98	<0.62	5	2.22	5.4-6.08	<1.85
12/2/2008	594.14	14.91	NS	*6.6*	*4.8*	0.88	<0.7	2	<0.39	7.88	0.68-1.68
5/4/2010	588.21	20.84	NOT SAMPLED								

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.

Groundwater Analytical Results Summary
Sturgeon Bay Utilities LUST Site BRRTS# 03-15-114878

Well MW-15
PVC Elevation = 591.63 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
3/2/1998	585.78	5.85	<100	*2*	0.75	0.42	0.83	0.43	0.71	NS	2.39
7/24/2002	NM	NM	<100	NS	<0.43	<0.49	<0.49	0.15J	<0.63	<1.14	<1.5
10/4/2004	NM	NM	NS	NS	<0.31	<0.5	<0.3	NS	<0.3	<0.71	<0.92
3/7/2006	NM	NM	NS	NS	<0.25	<0.22	<0.23	<0.40	<0.11	<0.44	<0.39
2/22/2007	NM	NM	NS	NS	<0.47	<0.38	<0.52	NS	<0.46	<1.57	<0.99
6/13/2007	NM	NM	NS	NS	<0.22	<0.44	<0.53	NS	<0.26	<0.67	<1.21
3/13/2008	COULD NOT LOCATE										
6/12/2008	585.09	6.54	NOT SAMPLED								
9/4/2008	579.34	12.29	NOT SAMPLED								
12/2/2008	578.30	13.33	NOT SAMPLED								
5/4/2010	584.45	7.18	NS	NS	<0.38	<0.55	<0.25	0.019	<0.72	<1.20	<1.62

Well PZ-1
PVC Elevation = 607.46 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
12/18/1997	583.15	24.31	2600	<1	**18**	11	2.50	*16*	81	NS	125
7/24/2002	NM	NM	<100	NS	*0.85J*	<0.49	<0.49	0.28	<0.63	<1.14	<1.5
10/4/2004	NM	NM	NS	NS	**5.21**	<0.5	0.73	NS	<0.3	<0.71	<0.92
3/7/2006	NM	NM	NS	NS	**27**	27	<0.23	*11*	1.8	37.9	64
2/22/2007	NM	NM	NS	NS	<0.47	<0.38	<0.52	NS	<0.46	<1.57	<0.99
6/13/2007	NM	NM	NS	NS	<0.22	<0.44	<0.53	NS	<0.26	<0.67	<1.21
3/13/2008	585.58	21.88	NS	<0.7	**20.7**	7.6	<0.7	0.12	0.50	13.6-13.83	18-18.67
6/12/2008	586.05	21.41	NS	<0.7	<0.49	<0.68	<0.62	<0.015	<0.46	<1.42	<1.85
9/4/2008	581.69	25.77	NS	<0.7	<0.49	<0.68	<0.62	<0.015	<0.46	<1.42	<1.85
12/2/2008	580.31	27.15	NS	<0.7	<0.24	<0.35	<0.7	<0.015	<0.39	<0.74	<1.67
5/4/2010	585.39	22.07	NOT SAMPLED								

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.

Groundwater PAH Data Summary Tables
Sturgeon Bay Utilities LUST Site BRRTS# 03-15-114878

Well MW-1
PVC Elevation = 607.45 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
3/2/1998	<0.077	<3	18	33	5	7.9	13	1.6	<0.21	<0.12	350	210	<0.27	3600	6900	2400	120	<0.066
7/24/2002	<0.053	<0.16	<0.0.24	<0.03	3.5	9.3	4.8	3.8	9.3	3.6	<0.053	<0.025	3.3	130	380	*30*	6.7	<0.13
10/4/2004	<3.00	<3.00	<2.50	<2.00	8.16	<2.00	<2.50	<2.00	<2.50	<3.00	<3.00	<6.00	<2.50	270	509	**204**	<4.00	<4.50
3/7/2006	<3.3	<6.9	41	39	11	4.7	7.4	2.9	22	<1.3	140	86	1.5	970	1600	**220**	93	82
2/22/2007	<3	<3.2	<2.6	<3	*<3*	*<2.8*	<3	<4.6	<3.2	<3	<3	<3.8	<2.8	21	21	*30*	<3.4	<3
6/13/2007	1.75	0.74	1.41	1.3	0.45	0.41	0.57	<0.46	0.68	<0.3	1.89	1.62	<0.28	72	109	*54*	3.5	3.4
3/13/2008	NOT SAMPLED																	
6/12/2008	NOT SAMPLED – FREE PRODUCT PRESENT																	
9/4/2008	NOT SAMPLED – FREE PRODUCT PRESENT																	
12/2/2008	NOT SAMPLED – FREE PRODUCT PRESENT																	
5/4/2010	NOT SAMPLED – FREE PRODUCT PRESENT																	

Well MW-2
PVC Elevation = 604.95 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
3/2/1998	NOT SAMPLED																	
7/24/2002	<0.053	<0.16	<0.024	<0.03	3.5	9.3	4.8	3.8	9.3	3.6	<0.053	<0.025	3.3	130	380	*30*	6.7	<0.13
10/4/2004	<0.06	<0.06	<0.05	<0.04	<0.017	<0.04	<0.05	<0.04	<0.05	<0.06	<0.06	<0.12	<0.05	2.4	0.2	0.21	<0.08	<0.09
3/7/2006	<0.33	<0.70	<0.038	<0.044	<0.032	<0.099	<0.12	<0.049	<0.041	<0.13	<0.082	<0.063	<0.063	6.2	<0.31	<0.40	<0.030	<0.044
2/22/2007	<0.015	<0.016	<0.013	<0.015	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	0.02	<0.021	<0.018	<0.017	<0.015
6/13/2007	<0.015	<0.016	<0.013	<0.015	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	<0.018	<0.021	<0.018	<0.017	<0.015
3/13/2008	0.033	<0.097	<0.012	<0.015	<0.016	<0.013	<0.02	<0.019	<0.018	<0.013	<0.02	0.03	<0.021	2.1	0.021	0.58	0.026	0.022
6/12/2008	0.029	<0.015	<0.014	<0.017	<0.016	<0.01	<0.02	<0.023	<0.02	<0.012	<0.016	0.026	<0.013	2.16	0.12	0.75	0.023	<0.016
9/4/2008	0.036	<0.015	<0.014	<0.017	<0.016	0.012	<0.02	<0.023	<0.02	<0.012	<0.016	0.034	<0.013	1.26	0.021	0.16	0.027	<0.016
12/2/2008	0.050	0.022	<0.014	<0.017	<0.016	<0.01	<0.02	<0.023	<0.02	<0.012	<0.016	0.037	<0.013	0.6	<0.016	0.13	0.024	<0.016
5/4/2010	NOT SAMPLED																	

Well MW-3
PVC Elevation = 607.50 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
3/2/1998	NOT SAMPLED																	
7/24/2002	<0.053	<0.16	<0.024	<0.03	<0.022	<0.036	<0.087	<0.067	<0.022	<0.036	<0.053	<0.025	<0.03	<0.095	<0.096	<0.067	<0.036	<0.13
10/4/2004	<0.06	<0.06	<0.05	<0.04	<0.017	<0.04	<0.05	<0.04	<0.05	<0.06	<0.06	<0.12	<0.05	<0.08	<0.11	<0.1	<0.08	<0.09
3/7/2006	<0.82	<1.7	<0.095	<0.11	<0.080	<0.24	<0.30	<0.12	<0.10	<0.32	<0.20	<0.16	<0.16	<0.80	<0.78	<1.0	<0.075	<0.11
2/22/2007	<0.015	<0.016	<0.013	<0.015	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	<0.018	<0.021	<0.018	<0.017	<0.015
6/13/2007	<0.015	<0.016	<0.013	<0.015	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	<0.018	<0.021	<0.018	<0.017	<0.015
3/13/2008	NOT SAMPLED																	
6/12/2008	NOT SAMPLED																	
9/4/2008	NOT SAMPLED																	
12/2/2008	NOT SAMPLED																	
5/4/2010	NOT SAMPLED																	

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled

Groundwater PAH Data Summary Tables
Sturgeon Bay Utilities LUST Site BRRTS# 03-15-114878

Well MW-4
PVC Elevation = 607.10 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
3/2/1998	NOT SAMPLED																	
7/24/2002	<0.053	<0.16	<0.024	<0.03	<0.022	<0.036	<0.087	<0.067	<0.022	<0.036	<0.053	<0.025	<0.03	3.1	5.1	2.9	<0.036	<0.13
10/4/2004	<3.00	<3.00	<2.50	<2.00	<0.85	<2.00	<2.50	<2.00	<2.50	<3.00	<3.00	<6.00	<2.50	268	648	156	<4.00	<4.50
3/7/2006	<0.33	<0.69	<0.038	<0.044	<0.032	<0.098	<0.12	<0.049	<0.041	<0.13	<0.081	<0.062	<0.062	<0.32	<0.31	0.46	<0.030	<0.044
2/22/2007	<0.015	<0.016	<0.013	<0.015	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	<0.018	<0.021	<0.018	<0.017	<0.015
6/13/2007	<0.015	<0.016	<0.013	<0.015	<0.015	<0.014	0.03	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	<0.018	<0.021	<0.018	<0.017	<0.015
3/13/2008	<0.012	<0.097	<0.012	<0.015	<0.016	<0.013	0.08	<0.019	<0.018	<0.013	<0.02	<0.01	<0.021	<0.018	<0.017	<0.02	<0.016	0.02
6/12/2008	<0.013	<0.015	<0.014	<0.017	<0.016	<0.01	0.04	<0.023	<0.02	<0.012	<0.016	<0.015	<0.013	<0.018	<0.016	<0.015	<0.017	<0.016
9/4/2008	<0.013	<0.015	0.024	0.1	0.09	*0.08*	0.33	<0.023	*0.08*	0.018	0.08	0.030	0.06	0.13	0.06	0.11	0.024	0.16
12/2/2008	<0.013	<0.015	<0.014	<0.017	<0.016	<0.01	<0.02	<0.023	<0.02	<0.012	<0.016	<0.015	<0.013	0.028	<0.016	0.030	<0.017	<0.016
5/4/2010	NOT SAMPLED																	

Well MW-5
PVC Elevation = 604.19 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
3/2/1998	NOT SAMPLED																	
7/24/2002	<0.053	<0.16	<0.024	<0.03	<0.022	<0.036	<0.087	<0.067	<0.022	<0.036	<0.053	<0.025	<0.03	26	4.3	7.7	<0.036	<0.13
10/4/2004	<0.06	<0.06	<0.05	<0.04	<0.017	<0.04	<0.05	<0.04	<0.05	<0.06	<0.06	<0.12	<0.05	31.4	<0.11	8.23	<0.08	<0.09
3/7/2006	<0.33	<0.69	0.08	<0.044	<0.032	<0.098	<0.12	<0.049	<0.041	<0.13	<0.081	<0.062	<0.062	15	<0.31	1.2	0.14	<0.044
2/22/2007	0.023	<0.016	<0.013	0.02	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	1.0	<0.021	0.19	<0.017	<0.015
6/13/2007	0.017	<0.016	<0.013	<0.015	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	1.32	<0.021	0.34	<0.017	<0.015
3/13/2008	0.233	<0.485	<0.06	<0.075	<0.08	<0.065	<0.1	<0.095	<0.09	<0.065	<0.1	0.18	<0.105	22.2	2.04	18.7	0.14	<0.055
6/12/2008	0.05	<0.015	<0.014	<0.017	<0.016	<0.01	<0.02	<0.023	<0.02	<0.012	<0.016	0.038	<0.013	2.86	0.16	1.02	0.024	<0.016
9/4/2008	0.016	<0.015	<0.014	<0.017	<0.016	<0.01	<0.02	<0.023	<0.02	<0.012	<0.016	<0.015	<0.013	<0.018	<0.016	0.05	<0.017	<0.016
12/2/2008	0.080	0.026	<0.014	<0.017	<0.016	<0.01	<0.02	<0.023	<0.02	<0.012	<0.016	0.07	<0.013	0.09	<0.016	0.14	0.048	<0.016
5/4/2010	NOT SAMPLED																	

Well MW-11
PVC Elevation = 610.12 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
3/2/1998	NOT SAMPLED																	
7/24/2002	<0.053	<0.16	<0.024	<0.03	<0.022	<0.036	<0.087	<0.067	<0.022	<0.036	<0.053	<0.025	<0.03	0.39	0.20	0.15	<0.036	<0.13
10/4/2004	<0.06	<0.06	<0.05	<0.04	<0.017	<0.04	<0.05	<0.04	<0.05	<0.06	<0.06	<0.12	<0.05	0.41	<0.11	0.35	<0.08	<0.09
3/7/2006	<0.33	<0.69	<0.038	<0.044	<0.032	<0.098	<0.12	<0.049	<0.041	<0.13	<0.081	<0.062	<0.062	0.50	<0.31	0.69	<0.030	<0.044
2/22/2007	<0.015	<0.016	<0.013	<0.015	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	0.03	<0.021	0.05	<0.017	<0.015
6/13/2007	<0.015	<0.016	<0.013	<0.015	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	<0.018	<0.021	0.020	<0.017	<0.015
3/13/2008	COULD NOT ACCESS																	
6/12/2008	NOT SAMPLED																	
9/4/2008	NOT SAMPLED																	
12/2/2008	NOT SAMPLED																	
5/4/2010	NOT SAMPLED																	

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled

Groundwater PAH Data Summary Tables
Sturgeon Bay Utilities LUST Site BRRTS# 03-15-114878

Well MW-12
PVC Elevation = 602.16 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
3/2/1998	NOT SAMPLED																	
7/24/2002	<0.053	<0.16	<0.024	<0.03	<0.022	<0.036	<0.087	<0.067	<0.022	<0.036	<0.053	<0.025	<0.03	0.90	0.47	0.38	<0.036	<0.13
10/4/2004	<0.06	<0.06	<0.05	<0.04	<0.017	<0.04	<0.05	<0.04	<0.05	<0.06	<0.06	<0.12	<0.05	<0.08	<0.11	<0.1	<0.08	<0.09
3/7/2006	<0.33	<0.69	<0.038	<0.044	<0.032	<0.098	<0.12	<0.049	<0.041	<0.13	<0.081	<0.062	<0.062	2.70	<0.31	1.5	<0.030	<0.044
2/22/2007	<0.015	<0.016	<0.013	0.02	<0.015	0.02	0.03	<0.023	<0.016	<0.015	0.02	<0.019	0.02	<0.018	<0.021	<0.018	<0.017	0.020
6/13/2007	<0.015	<0.016	<0.013	<0.015	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	0.02	<0.021	0.08	<0.017	<0.015
3/13/2008	<0.012	<0.097	<0.012	<0.015	<0.016	0.020	<0.02	<0.019	<0.018	<0.013	<0.02	<0.01	<0.021	<0.018	<0.017	<0.02	0.020	0.020
6/12/2008	<0.0117	<0.0135	<0.0126	0.021	0.06	0.1	0.12	0.042	0.056	0.012	0.1	<0.0135	0.08	<0.0162	<0.0144	<0.0135	0.05	0.08
9/4/2008	0.040	<0.015	<0.014	0.020	0.021	0.038	0.04	<0.023	0.020	<0.012	0.047	0.037	0.032	4.8	0.72	2.91	0.026	0.04
12/2/2008	<0.013	<0.015	<0.014	<0.017	<0.016	<0.01	<0.02	<0.023	<0.02	<0.012	<0.016	<0.015	<0.013	<0.018	<0.016	<0.015	<0.017	<0.016
5/4/2010	NOT SAMPLED																	

Well MW-13
PVC Elevation = 603.64 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
3/2/1998	NOT SAMPLED																	
7/24/2002	<0.053	<0.16	<0.024	<0.03	<0.022	<0.036	<0.087	<0.067	<0.022	<0.036	<0.053	<0.025	<0.03	670	780	*430*	<0.036	<0.13
10/4/2004	<3.00	<3.00	<2.50	<2.00	<0.85	<2.00	<2.50	<2.00	<2.50	<3.00	<3.00	<6.00	<2.50	159	122	*20.5*	<4.00	<4.50
3/7/2006	<8.2	<17	31	29	**3.6**	<2.4	<3.0	1.5	**4.7**	<3.2	59	28	<1.6	1200	1200	**270**	49	24
2/22/2007	3.50	<3.2	<2.6	<3	<3	<2.8	<3	<4.6	<3.2	<3	<3	<3.8	<2.8	35	<4.2	*17*	<3.4	<3
6/13/2007	10.2	4.1	7.0	6.1	**2.43**	**1.83**	3.2	<2.3	**3.9**	<1.5	9.2	9.4	<1.4	234	11.1	*53*	13.2	13.7
3/13/2008	21	11.4	5.5	11.3	**4.8**	**3.900**	6.0	<1.9	**6**	<1.3	17.9	17.9	<2.1	470	56	**211**	17.6	32
6/12/2008	9.8	5.9	21.2	5.6	**3.4**	**2.400**	4.2	<2.3	**3.5**	<1.2	11.1	12.1	<1.3	248	45	**109**	13.9	18.4
9/4/2008	NOT SAMPLED -- FREE PRODUCT PRESENT																	
12/2/2008	88	35	32	37	**16.3**	**14.1**	19.4	<9.2	**29.1**	<4.8	66	55	<5.2	1730	299	**940**	86	*99*
5/4/2010	0.96	0.51	0.46	0.72	<0.32	<0.34	0.4	<0.58	**0.38**	<0.32	0.98	1.13	<0.32	14.4	0.54	4.6	1.32	1.49

Well MW-14
PVC Elevation = 609.05 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
3/2/1998	12	<3	3.8	<0.083	0.16	<0.014	0.47	<0.002	<0.21	<0.12	140	<0.18	<0.27	220	510	470	35	<0.055
7/24/2002	<0.053	<0.16	<0.024	<0.03	<0.022	<0.036	<0.087	<0.067	<0.022	<0.036	<0.053	<0.025	<0.03	33	25	7.1	<0.036	<0.13
10/4/2004	<0.06	<0.06	<0.05	<0.04	<0.017	<0.04	<0.05	<0.04	<0.05	<0.06	<0.06	<0.12	<0.05	4.25	1.03	0.9	<0.08	<0.09
3/7/2006	<0.33	<0.69	0.25	<0.044	<0.032	<0.098	<0.12	<0.049	<0.041	<0.13	2.0	1.3	<0.062	8.70	9.4	0.83	0.99	<0.044
2/22/2007	1.50	1.3	1.4	0.27	<0.15	<0.14	<0.15	<0.23	**0.32**	<0.15	1.1	0.77	<0.14	6.3	2.0	3.0	5.0	2.0
6/13/2007	1.36	0.11	0.05	0.04	0.02	*0.02*	0.03	<0.023	*0.07*	<0.015	0.1	0.23	<0.014	0.78	0.13	0.24	0.11	0.29
3/13/2008	36	15.400	27.6	4.6	2.27	**1.75**	2.83	<1.9	**9.2**	<1.3	26	82	<2.1	570	36	88	236	*72*
6/12/2008	51	33.000	61	5.1	1.97	**1.59**	2.56	<2.3	**7.4**	<1.2	26.3	213	<1.3	500	14.9	269	270	*78*
9/4/2008	3.3	2.18	1.71	0.48	<0.16	*0.11*	<0.2	<0.23	**0.61**	<0.12	1.53	4.6	<0.13	10.9	1.96	5	7.8	3.8
12/2/2008	3.4	1.940	1.24	0.33	<0.16	<0.1	<0.2	<0.23	**0.43**	<0.12	1.06	4.5	<0.13	16.2	2.29	2	6.4	2.46
5/4/2010	NOT SAMPLED																	

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled

Groundwater PAH Data Summary Tables
Sturgeon Bay Utilities LUST Site BRRTS# 03-15-114878

Well MW-15
PVC Elevation = 591.63 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
3/2/1998	<0.077	<3	<0.014	<0.083	<0.073	<0.014	<0.13	<0.002	<0.21	<0.12	<0.42	<0.18	<0.27	0.33	0.36	0.43	<0.054	<0.055
7/24/2002	<0.053	<0.16	<0.024	<0.03	<0.022	<0.036	<0.087	<0.067	<0.022	<0.036	<0.053	<0.025	<0.03	0.45	0.29	0.15	<0.036	<0.13
10/4/2004	<0.06	<0.06	<0.05	<0.04	<0.017	<0.04	<0.05	<0.04	<0.05	<0.06	<0.06	<0.12	<0.05	<0.08	<0.11	<0.1	<0.08	<0.09
3/7/2006	<0.33	<0.69	<0.038	<0.044	<0.032	<0.098	<0.12	<0.049	<0.041	<0.13	<0.081	<0.062	<0.062	<0.32	<0.31	<0.40	<0.030	<0.044
2/22/2007	<0.015	<0.016	<0.013	<0.015	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	<0.018	<0.021	<0.018	<0.017	<0.015
6/13/2007	<0.015	<0.016	<0.013	<0.015	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	<0.018	<0.021	<0.018	<0.017	<0.015
3/13/2008	NOT SAMPLED																	
6/12/2008	NOT SAMPLED																	
9/4/2008	NOT SAMPLED																	
12/2/2008	NOT SAMPLED																	
5/4/2010	<0.017	<0.016	<0.018	<0.017	<0.016	<0.017	<0.017	<0.029	<0.017	<0.016	<0.019	<0.018	<0.016	<0.016	0.021	0.019	<0.019	<0.02

Well PZ-1
PVC Elevation = 607.46 (feet) (MSL)

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
3/2/1998	NOT SAMPLED																	
7/24/2002	<0.053	<0.16	<0.024	<0.03	<0.022	<0.036	<0.087	<0.067	<0.022	<0.036	<0.053	<0.025	<0.03	0.75	0.45	0.28	<0.036	<0.13
10/4/2004	<0.06	<0.06	<0.05	<0.04	<0.017	0.33	<0.05	0.46	<0.05	<0.06	<0.06	<0.12	<0.05	<0.08	<0.11	0.37	0.08	<0.09
3/7/2006	<0.33	<0.69	<0.038	<0.044	<0.032	<0.098	<0.12	<0.049	<0.041	<0.13	<0.081	<0.062	<0.062	2.0	0.52	11	<0.030	<0.044
2/22/2007	<0.015	<0.016	<0.013	0.02	<0.015	0.03	0.02	<0.023	0.02	<0.015	0.04	<0.019	<0.014	<0.018	<0.021	<0.018	<0.017	0.03
6/13/2007	<0.015	<0.016	<0.013	<0.015	<0.015	<0.014	<0.015	<0.023	<0.016	<0.015	<0.015	<0.019	<0.014	<0.018	<0.021	<0.018	<0.017	<0.015
3/13/2008	<0.012	<0.097	<0.012	<0.015	<0.016	<0.013	<0.02	<0.019	<0.018	<0.013	<0.02	<0.01	<0.021	0.62	<0.017	0.12	<0.016	<0.011
6/12/2008	<0.013	<0.015	<0.014	<0.017	<0.016	0.014	<0.02	<0.023	<0.02	<0.012	0.025	<0.015	<0.013	<0.018	<0.016	<0.015	0.018	0.021
9/4/2008	<0.013	<0.015	<0.014	<0.017	<0.016	0.016	<0.02	<0.023	<0.02	<0.012	0.027	<0.015	<0.013	<0.018	<0.016	<0.015	<0.017	0.020
12/2/2008	<0.013	<0.015	<0.014	<0.017	<0.016	<0.01	<0.02	<0.023	<0.02	<0.012	<0.016	<0.015	<0.013	<0.018	<0.016	<0.015	<0.017	<0.016
5/4/2010	NOT SAMPLED																	

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled

Groundwater Elevation Table
Sturgeon Bay Utilities LUST Site BRRTS# 03-15-114878
Sturgeon Bay, Wisconsin

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	PZ-1
pvc top (ft)	607.45	604.95	607.50	607.10	604.19	NM	610.12	602.16	603.64	609.05	591.63	607.46
Top of screen	593.61	596.38	596.01	595.95	596.61	NM	593.96	593.58	595.24	595.49	587.75	573.35
Date												
6/20/1997	586.00	587.50	587.79	587.67	587.59	NI	NI	NI	NI	NI	NI	NI
12/18/1997	582.83	588.14	588.08	587.17	588.00	NM	586.20	587.29	585.66	NI	NI	583.15
3/2/1998	NM	NM	NM	NM	NM	NM	NM	NM	NM	591.77	585.78	NM
7/24/2002	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
10/4/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
3/7/2006	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
2/22/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
6/13/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
3/13/2008	588.27	588.81	590.36	590.67	588.63	NM	CNS	586.42	585.97	594.23	CNL	585.58
6/12/2008	588.65	588.12	589.90	589.88	588.56	NM	589.51	586.44	587.02	589.80	585.09	586.05
9/4/2008	FP	587.38	587.96	585.73	587.52	NM	586.03	582.90	FP	593.96	579.34	581.69
12/2/2008	581.92	587.61	587.92	584.94	587.58	NM	585.20	582.72	582.26	594.14	578.30	580.31
5/4/2010	587.51	587.35	588.45	587.99	587.73	NM	588.63	584.89	585.94	588.21	584.45	585.39

Note: Elevations are presented in feet mean sea level (msl).
NM = Not Measured
NI = Not Installed
CNL = Could Not Locate
CNS = Could Not Sample

Summary of Free Product Levels & Recovery
Sturgeon Bay Utilities LUST Site BRRTS # 03-15-114878

DATE		MW-1	MW-4	MW-13	GALS REC./PERIOD	TOT GALS RECOVERED
6/20/1997	Inches of FP Inches of Sock Saturated Gals Recovered	Not Measured	0 No Sock 0	0 No Sock 0	0.00	0.00
6/26/1997	Inches of FP Inches of Sock Saturated Gals Recovered	Not Measured	0 No Sock 0	Not Measured	0.00	0.00
12/18/1997	Inches of FP Inches of Sock Saturated Gals Recovered	30 No Sock 0.22	Not Measured	Not Measured	0.22	0.22
2/27/1998	Inches of FP Inches of Sock Saturated Gals Recovered	2 No Sock 1.00	Not Measured	Not Measured	1.00	1.22
3/2/1998	Inches of FP Inches of Sock Saturated Gals Recovered	2 No Sock 1.00	Not Measured	Not Measured	1.00	2.22
3/19/1998	Inches of FP Inches of Sock Saturated Gals Recovered	2 No Sock 1.50	Not Measured	Not Measured	1.50	3.72
7/24/2002	Inches of FP Inches of Sock Saturated Gals Recovered	0 No Sock 0	Not Measured	0 No Sock 0	0.00	3.72
3/13/2008	Inches of FP Inches of Sock Saturated Gals Recovered	5 No Sock 0.12	0 No Sock 0	0 No Sock 0	0.12	3.84
6/12/2008	Inches of FP Inches of Sock Saturated Gals Recovered	0.5 No Sock 0.01	0 No Sock 0	0 No Sock 0	0.01	3.85
9/4/2008	Inches of FP Inches of Sock Saturated Gals Recovered	2 12 0.04	0 No Sock 0	1.5 No Sock 0.03	0.15	4.00
12/2/2008	Inches of FP Inches of Sock Saturated Gals Recovered	7 36 0.21	0 No Sock 0	0 25 0	0.63	4.63
11/3/2009	Inches of FP Inches of Sock Saturated Gals Recovered	4 36 0.09	NM	0 0 0	0.34	4.97
11/9/2009	Inches of FP Inches of Sock Saturated Gals Recovered	7 No Sock 0.10	NM	0 No Sock 0	0.10	5.07
11/16/2009	Inches of FP Inches of Sock Saturated Gals Recovered	1.75 No Sock 0.02	NM	0 No Sock 0	0.02	5.09
11/23/2009	Inches of FP Inches of Sock Saturated Gals Recovered	1 No Sock 0.02	NM	0 No Sock 0	0.02	5.11
11/30/2009	Inches of FP Inches of Sock Saturated Gals Recovered	1.5 No Sock 0.02	NM	0 No Sock 0	0.02	5.13
12/14/2009	Inches of FP Inches of Sock Saturated Gals Recovered	1 No Sock 0.02	NM	0 No Sock 0	0.02	5.15
12/21/2009	Inches of FP Inches of Sock Saturated Gals Recovered	0.75 No Sock 0.02	NM	0 No Sock 0	0.02	5.17
12/28/2009	Inches of FP Inches of Sock Saturated Gals Recovered	0.5 No Sock 0.01	NM	0 No Sock 0	0.01	5.18

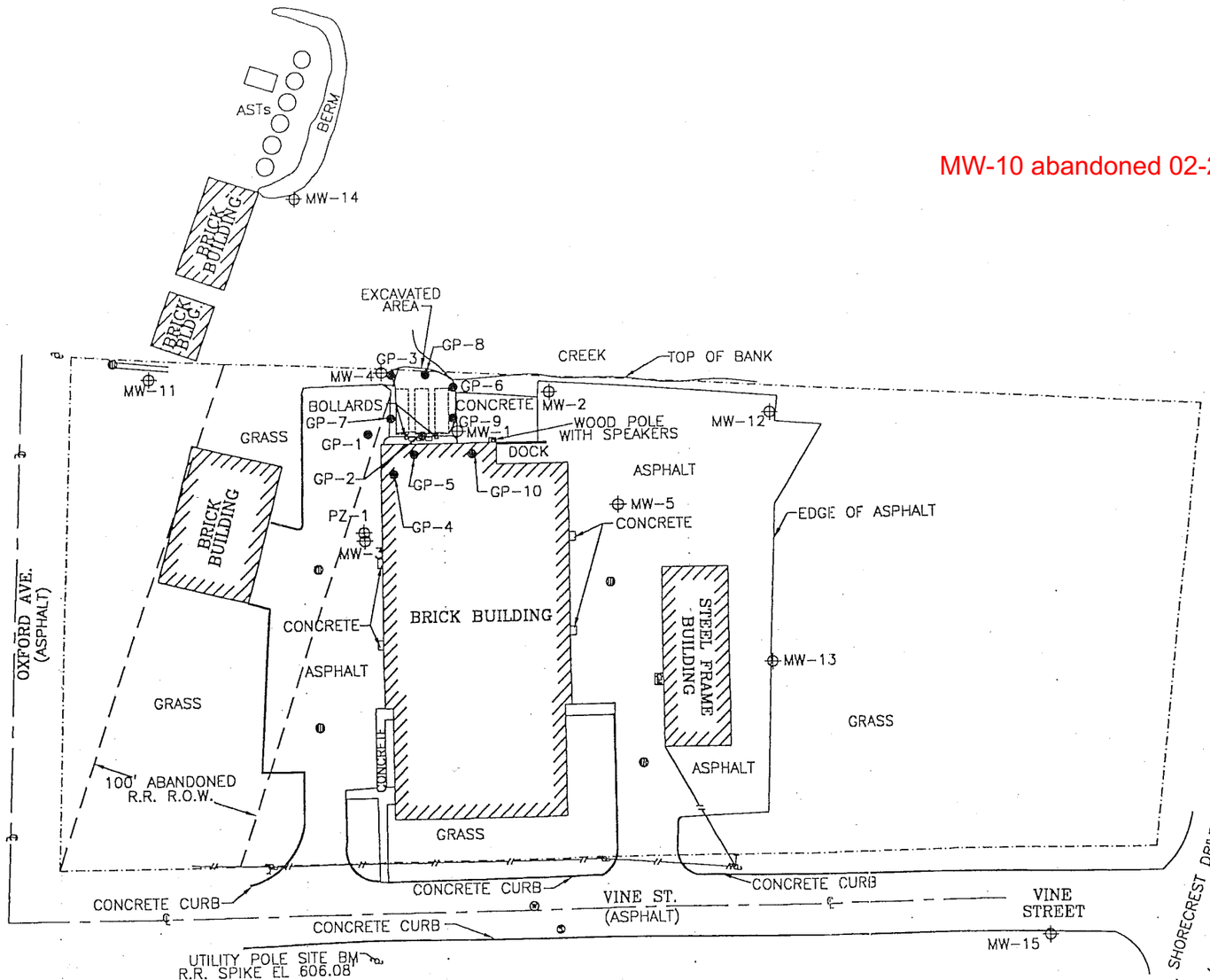
MW1 MW4 MW13

1/5/2010	Inches of FP Inches of Sock Saturated Gals Recovered	1 No Sock 0.01	NM	0 No Sock 0	0.01	5.19
1/11/2010	Inches of FP Inches of Sock Saturated Gals Recovered	2.25 No Sock 0.03	NM	0 No Sock 0	0.03	5.22
1/18/2010	Inches of FP Inches of Sock Saturated Gals Recovered	0.5 No Sock 0.01	NM	0 No Sock 0	0.01	5.23
1/25/2010	Inches of FP Inches of Sock Saturated Gals Recovered	0.125 No Sock 0.00	NM	0 No Sock 0	0.00	5.23
2/8/2010	Inches of FP Inches of Sock Saturated Gals Recovered	1 No Sock 0.01	NM	0 No Sock 0	0.01	5.24
2/22/2010	Inches of FP Inches of Sock Saturated Gals Recovered	0.5 No Sock 0.01	NM	0 No Sock 0	0.01	5.25
3/1/2010	Inches of FP Inches of Sock Saturated Gals Recovered	1 No Sock 0.01	NM	0 No Sock 0	0.01	5.26
3/9/2010	Inches of FP Inches of Sock Saturated Gals Recovered	0.75 No Sock 0.01	NM	0 No Sock 0	0.01	5.27
3/15/2010	Inches of FP Inches of Sock Saturated Gals Recovered	0.125 No Sock 0.00	NM	0 No Sock 0	0.00	5.27
3/22/2010	Inches of FP Inches of Sock Saturated Gals Recovered	0.0625 No Sock 0.00	NM	0 No Sock 0	0.00	5.27
3/29/2010	Inches of FP Inches of Sock Saturated Gals Recovered	0.25 No Sock 0.00	NM	0 No Sock 0	0.00	5.27
4/5/2010	Inches of FP Inches of Sock Saturated Gals Recovered	0.125 No Sock 0.00	NM	0 No Sock 0	0.00	5.27
4/19/2010	Inches of FP Inches of Sock Saturated Gals Recovered	0.25 No Sock 0.00	NM	0 No Sock 0	0.00	5.27
4/26/2010	Inches of FP Inches of Sock Saturated Gals Recovered	0.375 No Sock 0.00	NM	0 No Sock 0	0.00	5.27
5/4/2010	Inches of FP Inches of Sock Saturated Gals Recovered	0.5 No Sock 0.00	NM	0 No Sock 0	0.00	5.28

IMPROPERLY ABANDONED MONITORING WELL

SOURCE PROPERTY

MW-10 abandoned 02-27-98 but unlocatable.



LEGEND

- APPROXIMATE BOUNDARY LINES
- CATCH BASIN
- GAS METER
- WATER VALVE
- MANHOLE
- OVERHEAD UTILITY LINE
- FORMER UST
- MONITORING WELL
- PIEZOMETER
- GEOPROBE

Fluid Management
A Division of ENVIROGEN, Inc.

SCALE
0 20' 40' 60' 80'

Geoprobe Boring/Monitoring Well Configuration
Sturgeon Bay Utilities Site
Sturgeon Bay, Wisconsin

FIGURE NO.

DRAWING NO.	97.0038R4
DRAWN BY:	RRT
CHECKED BY:	DRL
APPROVED BY:	
	4/8/98
	4/13/98

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

IMPROPERLY ABANDONED MONITORING WELL

SOURCE PROPERTY

to: Solid Waste ☐ Haz. Waste ☐ Underground ☐ _____
esponse & Repair ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

een Bay Utilities

License, Permit or Monitoring Number

Well Water Table Observation Well ■ 11
Piezometer ☐ 12

Well Is From Waste/Source Boundary
Not surveyed ft.

A Point of Enforcement Std. Application?
■ Yes ☐ No

Local Grid Location of W
_____ ft. ☐ N. _____ ft. ☐ E.
☐ S. ☐ W.

Grid Origin Location
Lat. _____ Long. _____ or
St. Plane _____ ft. N, _____ ft. E.

Section Location of Waste/Source
SE 1/4 of SE 1/4 of Sec. 7, T. 27 N, R. 26 ■ E. ☐ W.

Location of Well Relative to Waste/Source
u ■ Upgradient s ☐ Sidegradient
d ☐ Downgradient n ☐ Not Known

Well Name
MW-10

Wis. Unique Well Number DNR Well Number

Date Well Installed 12/17/97 (m m d d y y)

Well Installed By: (Person's Name and Firm)
EDS - Craig

ctive pipe, top elevation _____ ft. MSL
casing, top elevation _____ ft. MSL
surface elevation _____ ft. MSL
ce seal, bottom _____ ft. MSL or 1.0 ft.

CS classification of soil near screen:
☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
rock ■

ve analysis attached? ☐ Yes ■ No

lling method used: Rotary ■ 50
Hollow Stem Auger ■ 41
Other ☐

lling fluid used: Water ☐ 02 Air ■ 01
Drilling Mud ☐ 03 None ☐ 99

lling additives used? ☐ Yes ■ No

scribe _____

urce of water (attach analysis):

tonite seal, top _____ ft. MSL or 1.0 ft.
sand, top _____ ft. MSL or 9.0 ft.
er pack, top _____ ft. MSL or 11.0 ft.
een joint, top _____ ft. MSL or 13.0 ft.
ll bottom _____ ft. MSL or 28.0 ft.
er pack, bottom _____ ft. MSL or 29.0 ft.
ehole, bottom _____ ft. MSL or 29.0 ft.
ehole, diameter 6.0 in.
.D. well casing 2.38 in.
. well casing 2.07 in.

1. Cap and lock? ■ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 6.0 in.
b. Length: 7.0 ft.
c. Material: Steel ■ 04
_____ Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ■ 01
_____ Other ☐
4. Material between well casing and protective pipe:
Bentonite ■ 30
Annular space seal ☐
_____ Other ☐
5. Annular space seal: a. Granular Bentonite ■ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ■ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ■ 3/8 in. ☐ 1/2 in. Bentonite pellets ■ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining #40-#60
b. Volume added 1 Bag ft^3
8. Filter pack material: Manufacturer, product name and mesh size
a. Badger Mining #20-#40
b. Volume added 7 Bags ft^3
9. Well casing: Flush threaded PVC schedule 40 ■ 23
Flush threaded PVC schedule 80 ☐ 24
_____ Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.010 in.
d. Slotted length: 15.0 ft.
11. Backfill material (below filter pack): None ■ 14
_____ Other ☐

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

ture _____ Firm Mid Management

complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., h. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than) for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each f violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.