GIS REGISTRY
Cover Sheet

REVISED
3:12 pm, Apr 16, 2012

March, 2010
(RR 5367)

Source Property Information

CLOSURE DATE: Feb 1, 2011

BRRTS #: **02-71-516785**

FID #:

ACTIVITY NAME: Marion Rd ROW

DATCP #:

PROPERTY ADDRESS: 400 Block Marion Rd - ROW

COMM #: 54901472000A

MUNICIPALITY: City of Oshkosh

PARCEL ID #: 90102300000

***WTM COORDINATES:**

X: **636473** Y: **394849**

** 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)*
  - [x] 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*

GIS Registry Checklist

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

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

BRRTS #: 02-71-516785 PARCEL ID #: 90102300000

ACTIVITY NAME: Marion Road ROW WTM COORDINATES: X: 636473 Y: 394849

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**
- [x] **Certificate of Completion (COC)** (for VPLE sites)

SOURCE LEGAL DOCUMENTS

- [x] **Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
  Note: *If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*
- [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 #: 1 **Title: Site Location Map**
- [x] **Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.

  Figure #: 2 &2A **Title: Soil Excavation Diagram & Other Investigation**
- [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 #: 3 **Title: Area of Soil Contamination**

BRRTS #: 02-71-516785 ACTIVITY NAME: Marion Road ROW

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 #: **Title:**

Figure #: **Title:**

☒ **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 #: 4 **Title: Extent of GW Contamination**

☒ **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 #: 5 **Title: Groundwater Flow Direction**

Figure #: 6 **Title: Groundwater Flow Direction**

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 #: 1 **Title: Soil Analytical Results**

☒ **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 #: 2 **Title: Groundwater Analytical Results**

☒ **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 #: 4 **Title: Static Groundwater Elevations**

IMPROPERLY ABANDONED MONITORING WELLS

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

☒ **Not Applicable**

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

Figure #: **Title:**

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

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

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

BRRTS #: 02-71-516785 ACTIVITY NAME: Marion Road ROW

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: 1

commerce.wi.gov
Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
375 City Center, Suite I
Oshkosh, Wisconsin 54901-1805
TTY: Contact Through Relay
Fax: (920) 424-0217
Scott Walker, Governor
Paul F. Jadin, Secretary

February 1, 2011

Darryn Burich
Planning Director
215 Church Ave
PO Box 1130
Oshkosh WI 54903-1130

RE: **Final Closure with Land Use Limitation to Address Direct Contact Risk**

Commerce # 54901-4720-00-A DNR BRRTS # 02-71-516785
Marion Road ROW, 400 Block Marion Rd, Oshkosh

Dear Mr. Burich:

The Wisconsin Department of Commerce (Commerce) has determined that this site does not pose a significant threat to human health and the environment as long as current and subsequent property owners adhere to the following limitation:

The barrier cap must be maintained in accordance with the enclosed maintenance plan.

Commerce has the authority per section 292.12(2), Wis. Stats., to require the maintenance of a barrier cap at this property. Failure to adhere to this limitation may result in financial penalties from $10 to $5,000 per day in accordance with section 292.99(1), Wis. Stats. Commerce may conduct inspections to ensure compliance with the maintenance plan. In the future, you may request that Commerce review *new* information to determine if the cap requirement can be changed or removed.

The following activities are prohibited on any portion of the property where a pavement cap or other barrier is required, as identified on the attached map, unless prior written approval has been obtained from Commerce: 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.

This site is now listed as "closed" on the Commerce database and will be included on the Department of Natural Resources (DNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual soil and groundwater contamination. To review all sites on the GIS Registry web page, visit http://dnr.wi.gov/org/aw/rr/gis/index.htm. It is in your best interest to keep all documentation related to the environmental activities at your site.

If you intend to construct or reconstruct a potable well on this property, you must get prior DNR approval. To obtain approval, complete Form 3300-254, GIS Registry Site Well Approval Application, and submit it to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at http://www.dnr.state.wi.us/org/water/dwg/3300254.pdf or through the GIS Registry web address listed above.

All current and future owners and occupants of the property need to be aware that excavation of contaminated soil may pose a hazard. Special precautions may be needed to prevent inhalation,

ingestion or dermal contact with the residual contamination when it is removed. If soil is excavated, the property owner at the time of excavation must have the soil sampled and analyzed to determine if residual contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation must determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules.

Depending on site-specific conditions, construction over contaminated materials may result in vapor migration into enclosed structures or along newly placed underground utility lines. The potential for vapor inhalation and migration 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.

Costs for sampling and excavation activities conducted after case closure are not eligible for PECFA reimbursement. However, if it is determined that any undisturbed remaining petroleum contamination poses a threat, the case may be reopened and further investigation or remediation may be required. If this case is reopened, any original claim under the PECFA fund would also reopen and you may apply for assistance to the extent of remaining eligibility.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (920) 424-0025.

Sincerely,

Tom Verstegen
Hydrogeologist – Dept of Commerce
PECFA - Site Review Section

Enclosure

cc: Andrew Mott - AECOM
Craig Dousharm, Mercury Marine, PO Box 1939, Fond du Lac WI 54936

POST CLOSURE

Soil Performance Standard Cover System
Former Mercury Marine Parcel – Plant 24
Former 449 Marion Road
Oshkosh, Wisconsin

October 31, 2011

MERCURY MARINE
Property Located at 449 Marion Road, Oshkosh
Parcel ID No.:

Introduction

This document describes the Soil Performance Standard Cover System at the above-referenced site in accordance with the requirements of Wisconsin Administrative Code (WAC) Chapter (ch.) NR 720.19(2). The soil is impacted by lead, polynuclear aromatic hydrocarbons (PAHs) and volatile organic compounds (VOCs). The location of the cap to be maintained in accordance with this Maintenance Plan is shown on Exhibit A of the Barrier Maintenance Plan.

Cap Purpose

The cap over the contaminated soil serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. Based on the current and future use of the property, the cap should function as intended unless disturbed.

Description of Cover System

The performance standard cover system for the subject property recognizes the recently construction building, parking lot, and soil cover as a suitable direct contact barrier. This remedial alternative was selected as a lowest cost action which would be protective of human health and the environment.

The technical feasibility of the cover system is appropriate based on the relatively low mobility of contaminants in the soils. The proposed cover system will be protective of human health, safety and welfare, and the environment over both short-term and long-term time periods.

Institutional controls include registry on the WNDR's GIS database, as well as, conducting annual inspection and maintenance. The property owner will conduct annual inspections and maintain the cap in accordance with the attached Maintenance Plan, to ensure integrity of the cap.

Contact Information (as of April 19, 2011)

Current Property Owner:
City of Oshkosh Redevelopment Authority
215 Church Avenue
Oshkosh, Wisconsin 54901
(920) 236-5059

Environmental Consultant
AECOM
558 North Main Street
Oshkosh, Wisconsin 54901
Contact: Andrew Mott
Phone: (920) 236-6713

POST
CLOSURE

SOIL COVER MAINTENANCE PLAN

October 31, 2011

Property Located at:
Former Mercury Marine Parcel – Plant 24
449 Marion Road
Oshkosh, Wisconsin

WDNR BRRTS No. 21-71-282521

Parcel No.: 0102300000

Parcel Description: Lot 1 CSM 6408 DOC #1520619 R of D

Introduction

This document is the Maintenance Plan for a turf and pavement cover at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities described in this plan relate to the existing paved surfaces and grass turf areas occupying contaminated groundwater plume or soil on-site. The contaminated groundwater plume is impacted by volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). The location of the paved and turf surfaces to be maintained in accordance with this Maintenance Plan, which is comparable to the impacted groundwater plume, are identified in the attached map (Exhibit A). The area to be maintained is south of Marion Road and north of the Fox River.

Cover and Building Barrier Purpose

The paved and turf surfaces over the contaminated soil and groundwater plume serve as a barrier to prevent direct human contact with residual contamination that might otherwise pose a threat to human health. Based on the current and future use of the property as senior apartments and parking lot, the barriers should function as intended unless disturbed. Groundwater contamination is isolated and exists about 3 to 8 feet below the pre-existing ground surface. The presence of turf on the remaining areas will prevent erosion and exposure to contaminants.

Annual Inspection

The paved and turf surfaces overlying the contaminated soil and groundwater plume and as depicted in Exhibit A will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks, bare areas, dead or dying vegetation and other potential problems that can cause exposure to underlying soils. 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 City of Oshkosh and is included as Exhibit B, 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. The inspection log will be kept on file at City offices and made immediately available for review by the Wisconsin Department of Natural Resources (WNDR), its successor, and/or other state agency. Do not submit a copy of the log annually.

Sub slab Venting and Vapor Barrier System for Buildings

A sub slab venting and vapor barrier system has been installed in The Rivers. The system consists of perforated piping system, bedding in clear stone with a continuous plastic barrier beneath the floor slab. Please see photo log in the Request for Certificate of Completion, Appendix G For documentation. The integrity of these systems needs to be maintained. All vents need to be maintained and unobstructed.

Any future modifications to the building needs to take in account the integrity of this system. These restrictions should be reviewed on an annual basis.

Maintenance Activities

This Maintenance Plan covers only routine maintenance and repair activities to the parking lot pavement and turf-covered ground surfaces within the area designated. 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 include patching and filling operations, reseeding, and re-grading. 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 protective equipment. Any soil removed from the designated area must be treated, stored, and disposed of in accordance with the applicable local, state, and federal regulations.

Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WNDR or its successor.

The property owner, in order to maintain the integrity of the paved or turf surfaces, will maintain a copy of this Maintenance Plan on file at its offices and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

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 the WDNR.

Contact Information

October 2011

Site Owner and Operator:
City of Oshkosh Redevelopment Authority
215 Church Ave
Oshkosh, Wisconsin 54901
(920) 236-5059

Consultant:
AECOM
Contact: Andrew Mott
558 North Main Street
Oshkosh, Wisconsin 54901
(920) 236-6713

Wisconsin Department of Natural Resources:
Kathleen Sylvester
Bureau of Remediation and Redevelopment
625 East County Road Y, Suite 700
Oshkosh, Wisconsin 54901
(608) 275-3212

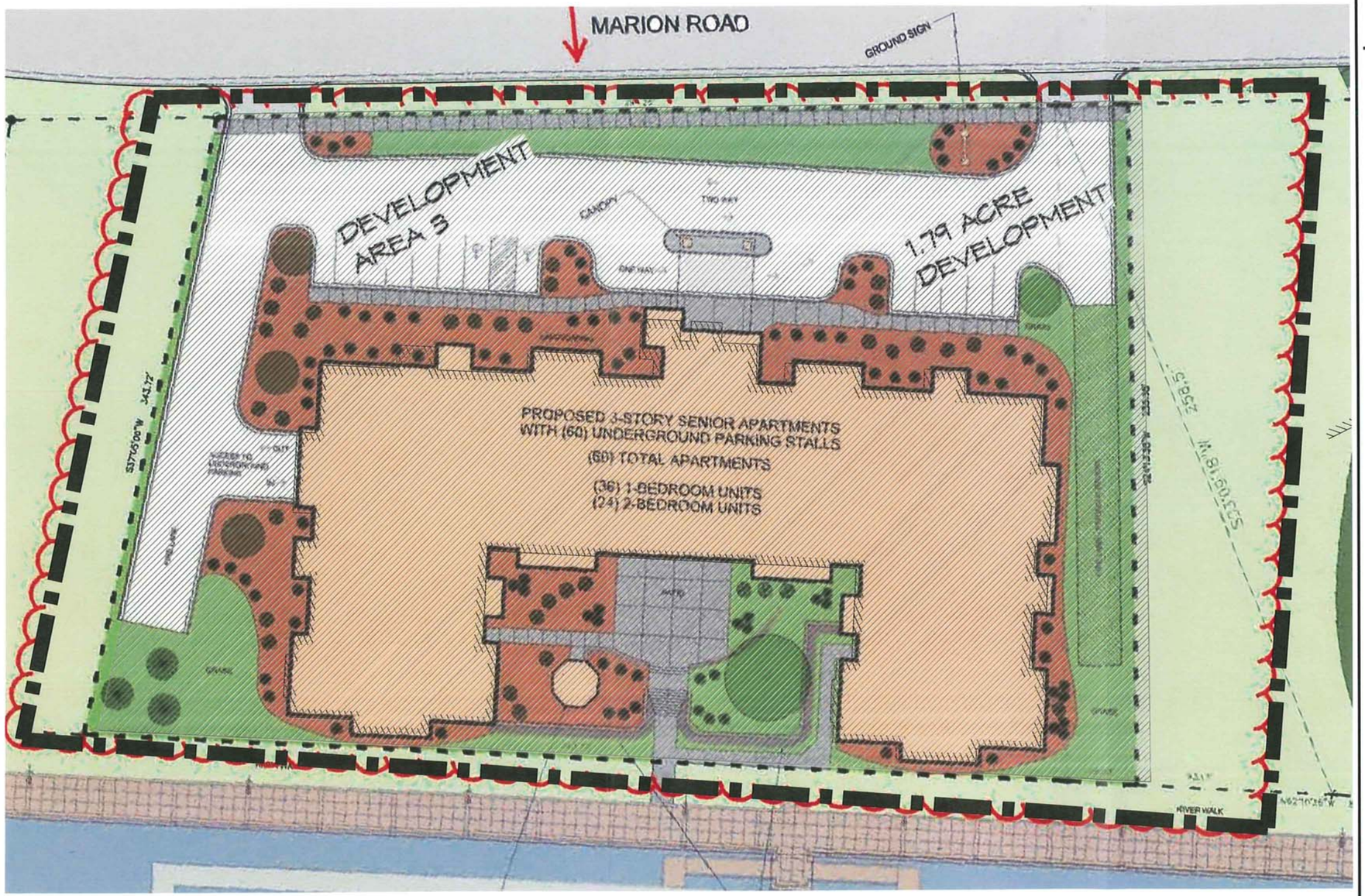
Soil Cover Maintenance Plan accepted:

_____
Darryn Burich, Director of Planning Services
City of Oshkosh, Wisconsin

POST CLOSURE

0 40

1" = 40'



LEGEND

- SENIOR APARTMENTS REDEVOLPMENT BOUNDARY
- EXISTING BUILDING
- B-3 STS SOIL BORING LOCATION
- MMSB-4 STS MONITORING WELL LOCATION
- MW-3 STS ABANDONED MONITORING WELL
- HA-4 STS HAND AUGER LOCATION
- MW-4 SIGMA MONITORING WELL LOCATION
- 64W97-18 SIGMA ABANDONED MONITORING WELL
- BARRIER MAINTENANCE AREA (CAP)

AECOM

MILWAUKEE OFFICE
1020 North Broadway
Milwaukee, WI
414.225.5100

BARRIER MAINTENANCE PLAN
SENIOR APARTMENTS
FORMER MERCURY MARINE
OSHKOSH, WISCONSIN

Drawn:	ALB	06/11/2009
Checked:	SAP	4/28/2011
Approved:	HAC	
PROJECT NUMBER	60149623	
FIGURE NUMBER	EXHIBIT A	

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POST CLOSURE

Exhibit B
BARRIER INSPECTION LOG

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

PLAN NOTES

1. ALL SIDEWALK REPAIRS OVER TRENCH EXCAVATIONS REQUIRE THREE #4 REINFORCING BARS EQUALLY SPACED AND CENTERED MID-DEPTH IN THE CONCRETE.

2. HDPE PIPE IS NOT ALLOWED WITHIN CITY RIGHT OF WAY OR ON EASEMENTS. NOTE THAT THE STORM SEWER PIPE FROM THE OUTFALL TO THE FIRST MANHOLE IS RCP.

3. SANITARY SEWER SERVICE LINES SHALL BE PVC SCHEDULE 40.

4. CONNECT SANITARY SEWER SERVICE TO SANITARY SEWER MAIN BY USE OF AN "INSERTA-TEE" Ⓡ OR CORE-AND-SADDLE CONNECTION.

3 5. WATER SERVICE LINES 2" OR SMALLER SHALL BE METALLIC WITHIN THE RIGHT OF WAY AND CONNECTED TO THE MAIN WITH A CORPORATION. WATER SERVICE LINES GREATER THAN 2" SHALL BE OF DUCTILE IRON CLASS 52 WITHIN THE RIGHT OF WAY AND CONNECTED TO THE MAIN USING A TAPPING VALVE AND STAINLESS STEEL SLEEVE.

5 ALL WATER SERVICES 2" OR LESS SHALL HAVE A CURB STOP INSTALLED IN THE RIGHT OF WAY 6 FT FROM THE RIGHT-OF-WAY LINE.

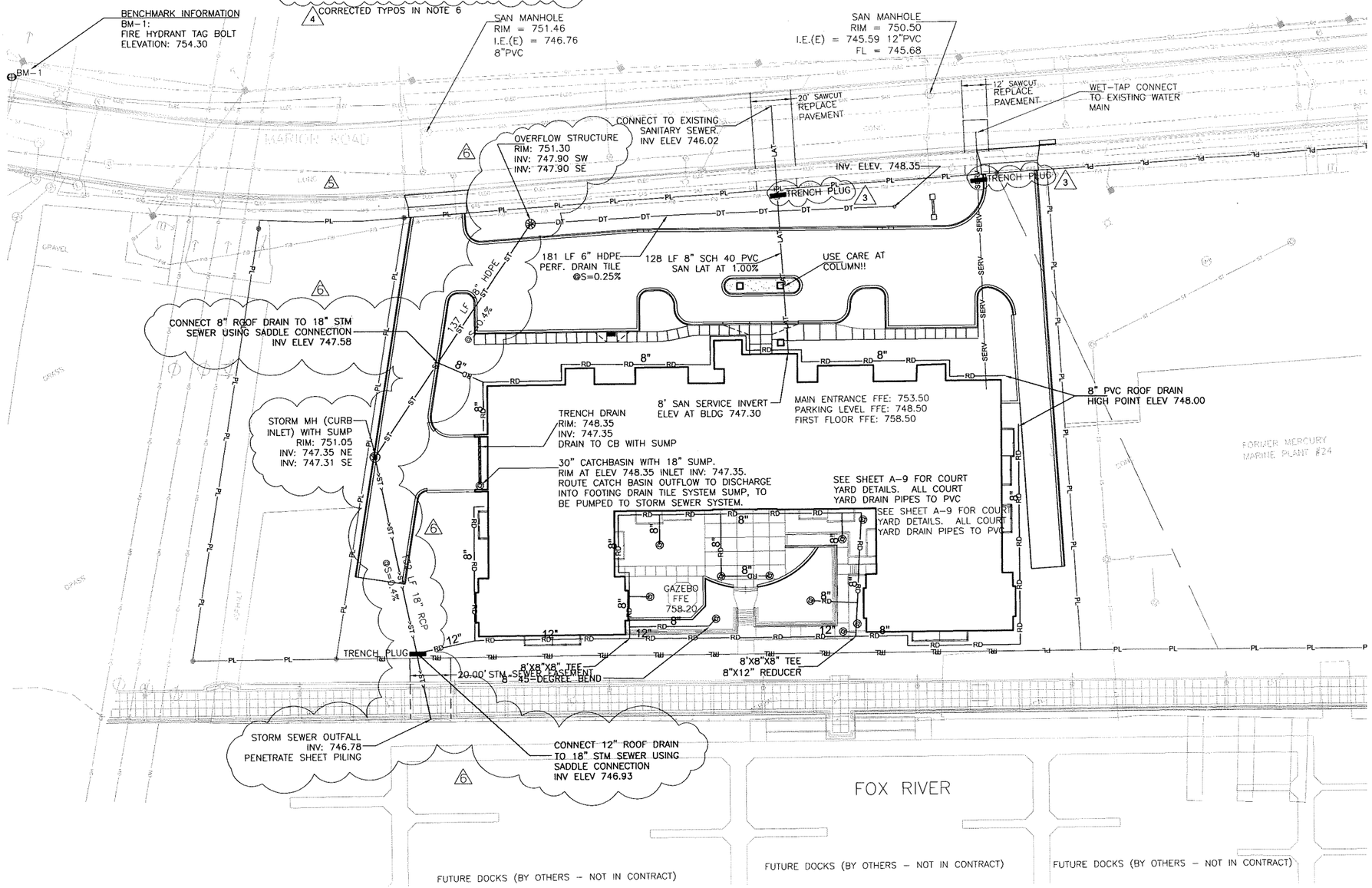
6. CONTACT MR. JACK REICHENBERGER OF THE CITY OF OSHKOSH WATER DISTRIBUTION UTILITY AT (920) 232-5330 AT LEAST 7 DAYS BEFORE DOING ANY WORK INVOLVING THE PUBLIC MAIN, INCLUDING SERVICE LINE CONNECTIONS.

4 CORRECTED TYPOS IN NOTE 6

3 7. CONTRACTOR SHALL INSTALL SCOTCHMARK 1404-XR WASTE WATER MARKER BALLS TO MARK LOCATION OF SANITARY SEWER LATERAL. INSTALL ONE BALL AT CONNECTION TO THE MAIN, ONE BALL AT 2 FT INTO THE CITY RIGHT OF WAY, AND ONE BALL AT ALL HORIZONTAL AND VERTICAL BENDS. MAXIMUM BALL BURY DEPTH IS 5'.

4 ADDED BALL BURY DEPTH TO NOTE 7

8. REVISION 3 INCLUDED ADDITIONAL PLAN INFORMATION ON SLOPES, INVERTS, TRENCH PLUGS FOR SERVICE LINES, AND PIPE MATERIALS IN ADDITION TO THE PLAN NOTES.



5 THE ONLY CHANGES TO THIS SHEET FOR REVISION 5 ARE 1) THE ELIMINATION OF NEW CURB AND GUTTER AT THE CURB OPENING TO THE PARCEL WEST OF THE PROJECT SITE, AND 2) AN ADDITION TO PLAN NOTE 5.

20 0 20 40
1" = 20'

AECOM

558 North Main Street
Oshkosh, WI 54901

920.235.0270

www.aecom.com

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THE RIVERS SENIOR LIVING
475 MARION ROAD
OSHKOSH, WISCONSIN

UTILITY PLAN

Issued

Rev	Date	Description
6	5/05/2010	RELOCATED STORM MANHOLE
5	9/24/2009	REVS. PER CITY OF OSHKOSH
4	9/09/2009	REVS. PER CITY OF OSHKOSH
3	9/02/2009	REVS. PER CITY OF OSHKOSH
2	8/21/2009	RELEASED FOR BIDS
1	8/18/2009	FOR CITY OF OSHKOSH REVIEW

Designed: CSW 08/07/2009
Drawn: ALB 08/07/2009
Checked: WJM 08/20/2009
Approved:

PROJECT NUMBER
60101641

SHEET REFERENCE NUMBER
C5.0

X:\Projects\60101641\DWG\C60101641-C5.0_UTILITY.dwg 5/20/2010 2:21:55 PM, PAMPERIN, PAUL D; STS_C50601.stb

Inspection and Maintenance Plan – Case Closure Request

WDNR BRRTS No. 02-71-516785

Marion Road Right-of-Way
400 Marion Road
Oshkosh, Wisconsin

January 2007

As a condition of closure, an engineered cap identified as the existing parking lot has been identified as an institutional control to address remaining impacts to soils located in the area of the former Candle Plant and Marion Road right-of-way as indicated on Figure 3.

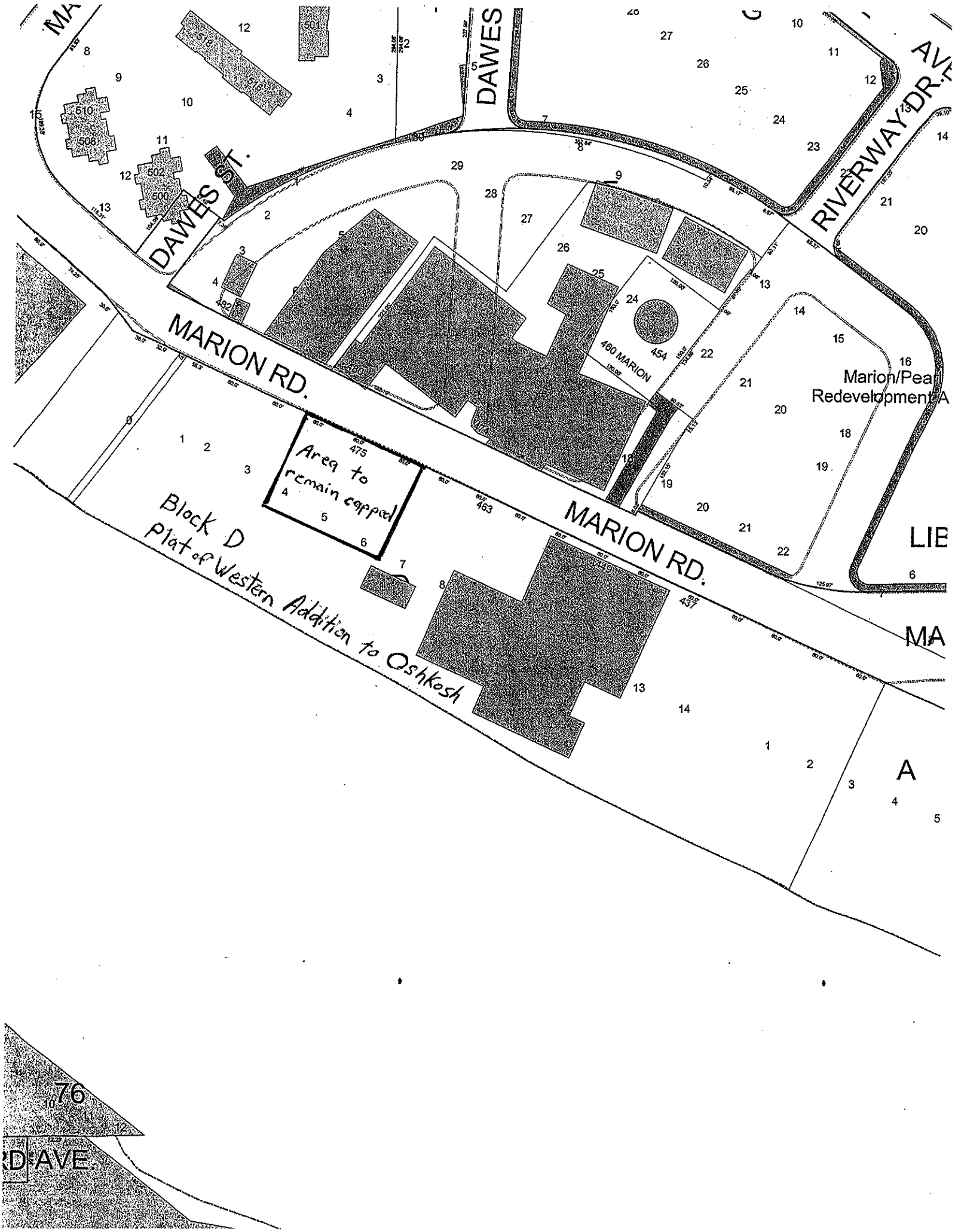
In accordance with Chapter NR 724.13(2), Wisconsin Administrative Code, the City of Oshkosh will inspect the parking lot cap once annually between the months of May through August in accordance with this maintenance plan.

The inspections will consist of visual observations to confirm the following:

- There is pavement or concrete in the area of residual PAH and lead.
- No filling or digging has occurred.

Deficiencies in the cap will be sealed or repaired to maintain the cap integrity.

Records of inspection and maintenance activities will be maintained and held at the City of Oshkosh offices.


DAWES
DAWES ST.
RIVERWAY DR.
MARION RD.
MARION RD.
460 MARION
454
Marion/Pearl
Redevelopment A
Area to
remain capped
Block D
Plat of Western Addition to Oshkosh
LIE
MA
A
76
RD AVE.

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

commerce.wi.gov
Wisconsin
Department of Commerce

December 16, 2008

Mr. Darryn Burich
Room 204, City Hall
215 Church Avenue
Oshkosh WI 54901

RE: **Case Closure Consideration with Proposed Land Use Limitation for Direct Contact Risk**
Commerce # 54901-4720-00-A DNR BRRTS # 02-71-516785
Marion Road ROW, 400 Block Marion Rd, Oshkosh

Dear Mr. Burich:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, AECOM, for the site referenced above. It is understood that residual soil and groundwater contamination remain on site. This letter serves as written notice that no further investigation or remedial action is necessary.

Please be aware that compliance with the requirements of this letter is a responsibility to which you, the current property owner and any subsequent property owners must adhere, pursuant to section 292.12, Wisconsin Stats. If these requirements are not followed, Commerce may take enforcement action under section 292.11, Wis. Stats., to ensure compliance with the specified requirements, limitations or other conditions related to the property, or this case may be reopened pursuant to section NR 726.09, Wis. Administrative Code. It is Commerce's intent to conduct inspections in the future to ensure that the conditions included in this letter, including compliance with the referenced maintenance plan, are met.

Well Abandonment Requirements

All monitoring wells not being used in conjunction with other environmental projects in the area must be properly abandoned within 60 days and the appropriate documentation forwarded to Commerce at the letterhead address within 120 days of the date of this letter. Contact the WDNR project manager (Kathy Sylvester) for that area and verify if any monitoring wells need to be kept. Noncompliance with the abandonment requirement and deadline can result in enforcement action and financial penalties. A final closure letter will be sent after the abandonment requirements have been met.

Land Use Limitation Requirement to Address Direct Contact Risk

Commerce has determined that this site does not pose a significant threat to the environment and human health as long as the barrier cap at this property is maintained. Residual petroleum concentrations in soil exceeding standards for the protection of human health from direct contact with contaminated soil remain beneath the existing asphalt parking lot. Therefore, the existing barrier cap must be maintained in accordance with the maintenance plan provided to prevent direct contact exposure to shallow contaminated soil. A site figure that indicates the approximate area with shallow residual petroleum contamination in soil and the barrier cap maintenance plan are enclosed for your review.

This limitation must be adhered to by the current property owner and any subsequent owner. Failure to adhere to this restriction may result in financial penalties from $10 to $5,000 per day in accordance with section 292.99(1), Wis. Stats.

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

Acceptance of the limitation to be imposed on the property makes it unnecessary to conduct additional soil remediation activities on the property at this time. In the future, you may request that Commerce review any *new* information to determine if the barrier requirement or maintenance plan can be changed or removed. If you do not want this limitation on your property, you must contact the undersigned to determine what remedial activities will be required, at your own expense, to close this case without the cap maintenance requirement.

GIS Registry of Closed Remediation Sites

Information submitted with your closure request will be included on the Department of Natural Resources (DNR) GIS Registry of Closed Remediation Sites. All sites on the Registry can be viewed via the Remediation and Redevelopment (RR) Sites Map at http://dnr.wi.gov/org/aw/rr/gis/index.htm. Because residual contamination remains at the time of case closure, if you intend to construct or reconstruct a potable well on this property, you must get prior DNR approval.

Residual Soil Contamination

All current and future owners and occupants of the property need to be aware that excavation of contaminated soil may pose a hazard. Special precautions may be needed to prevent inhalation, ingestion or dermal contact with the residual contamination when it is removed. If soil is excavated, the property owner at the time of excavation must determine if residual contamination remains. If contamination is present, the property owner at the time of excavation must determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Costs for sampling and excavation activities conducted after the date of this letter are not eligible for PECFA reimbursement.

Claim Submittal Requirement

Timely filing of your final PECFA claim (if applicable) is encouraged. If your claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

If you have any questions, please contact me at the letterhead address or by phone at (920) 424-0025.

Sincerely,

Tom Verstegen

Tom Verstegen
Hydrogeologist – Dept of Commerce
PECFA - Site Review Section

cc: Andrew Mott - AECOM
Craig Dousharm, Mercury Marine, PO Box 1939, Fond Du Lac, WI 54936-1939

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott Walker, Governor
Cathy Stepp, Secretary
Jean Romback-Bartels, Regional Director

Oshkosh Service Center
625 East County Road Y
Suite 700
Oshkosh, Wisconsin 54901-9731
FAX 920-424-4404

December 14, 2011

DARRYN BURICH
CITY OF OSHKOSH - PLANNING
215 CHURCH AVENUE
OSHKOSH WI 54901

SUBJECT: Partial Certificate of Closure for the Property Owned by the City of Oshkosh Known as LOT 1, former Mercury Marine Plant 64/24 and redeveloped as The Rivers Senior Living, 475 Marion, Oshkosh
WDNR BRRTS ID #06-71-547885

Dear Mr. Burich:

The Department of Natural Resources ("the Department") has received your request for issuance of a *Partial Certificate of Completion* (PCOC) for the property owned by the City of Oshkosh, located at 475 Marion Road, Oshkosh, Wisconsin, which will be referred to herein as "the Property". You have requested that the Department determine whether the City of Oshkosh has met the requirements under s. 292.15(2), Wis. Stats., for issuance of a *Partial Certificate of Completion.*

The Property subject of this PCOC is real property owned by the City of Oshkosh, encompassing approximately 1.78 acres and is presently occupied by The Rivers Senior Living. The property is described as Parcel # 901-0230 and is documented in Document Number 1393421 Winnebago County Register of Deeds, First Ward, City of Oshkosh, Winnebago County, Wisconsin.

Determination

Section 292.15, Wis. Stats., authorizes the Department to issue a PCOC to a voluntary party who conducts an approved environmental investigation of a property and restores the environment to the extent practicable and minimizes the harmful effects with respect to hazardous substance discharges on or originating from the property. Based on information received, the Department has determined that the investigation and restoration (to the extent practicable) of the Property is complete and that all the conditions in s. 292.15(2), Wis. Stats., have been met. Attached is the *Partial Certificate of Completion* for this Property.

While the conditions for issuance of a PCOC have been met, a cap consisting of the buildings and parking areas must be maintained, and the vapor mitigation system must also be maintained.

Conclusions

The Department appreciates the work undertaken by City of Oshkosh, to investigate and restore to the extent practicable the contamination associated with the Property. The exemption provided by the *Partial Certificate of Completion* applies to any successor or assignee of the City of Oshkosh, if the successor or assignee complies with the appropriate conditions, pursuant to s. 292.15(3), Wis. Adm. Code. If you have any questions or concerns regarding this letter or the *Certificate of Completion*, please call me at (920) 424-0399.

Sincerely,

Kathleen M. Sylvester, Hydrogeologist
Remediation & Redevelopment Program

Attachment: *Partial Certificate of Completion*

cc: Dept of Safety & Professional Services – Case File #54901-4720-00-A (T.Verstegen)
Michael Prager – RR/5 (email)
Bruce Urben – NER (email)
Paul Timm – AECOM (via email)

State of Wisconsin
Department of Natural Resources

PARTIAL CERTIFICATE OF COMPLETION OF RESPONSE ACTIONS UNDER SECTIONS 292.15(2)(ae) and (am), WIS. STATS.

Whereas, **The City of Oshkosh** has applied for an exemption from liability under s. 292.15, Wis. Stats., for a portion of a property located at **475 Marion Road, Oshkosh**, Wisconsin, which was commonly referred to as the **Former Mercury Marine Plant 64/24** site. The Property is further described in the legal description found on Attachment A1 (the "Property"). The City of Oshkosh is seeking the Partial Certificate for the western portion of the Property that has been redeveloped and is now occupied by **The Rivers Senior Living**, this area is Described as Lot 1 on CSM #6408 on Document #1520619 Recorded at the Winnebago County Registers Office on October 5, 2009 (Attachment A2 - hereafter "Lot 1").

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

Whereas, **The City of Oshkosh** has submitted to the WDNR certain investigation reports and a remedial action plan for the Property which comply with the requirements set forth in ch. 292, Wis. Stats. and chs. NR 700-754, Wis. Adm. Code, consisting of the documents and reports listed in Attachment B;

Whereas, in accordance with s. 292.15(2)(ae)1, Wis. Stats., the WDNR has determined that an environmental investigation has been conducted which adequately identified and evaluated the nature and extent of the hazardous substance discharges on the Property. The WDNR approved of the site investigation on March 31, 2008;

Whereas, Lot 1 contains soil contamination that exceeds site-specific and/or generic residual contaminant levels ("RCLs") under ch. NR 720, Wis. Adm. Code, and groundwater contamination that exceeds a groundwater quality enforcement standard under ch. NR 140, Wis. Adm. Code. Therefore, Lot 1 is included on the WDNR's Geographical Information System data base ("the GIS Registry") pursuant to s. 292.12(3), Wis. Stats. **The City of Oshkosh** has submitted to the WDNR all the information necessary to be included on the GIS Registry, pursuant to Wis. Adm. Code;

Whereas, on February 1, 2011, the Department of Safety and Professional Services (WDSPS) formerly known as the Department of Commerce, issued a case closure letter for the Property (BRRTS #02-71-516785). The owner of Lot 1 shall adhere to, abide by, and maintain the continuing obligations and other requirements that are specified in the attached case closure letter and updated Cap Maintenance plan (Attachment C). The WDNR requires the maintenance of a cover or barrier in order to prevent direct contact with and infiltration through residual soil contamination that might otherwise pose a threat to public health and the environment. The closure letter requires that if soil or waste with residual contamination is excavated in the future, the owner of Lot 1 at the time of excavation must manage it in accordance with applicable laws;

Whereas, the WDNR has determined that the historic fill material brought onto or existing at the Property in the past does not qualify as exempt under s. NR 500.08, Wis. Adm. Code. Attachment D summarizes the handling plan for the historic fill located in the Marion-Pearl Redevelopment Area which must be followed after this Partial Certificate is issued. If anyone proposes to do any future construction work on the Property, that person would also have to obtain approval for that work from the WDNR under s. NR 506.085, Wis. Adm. Code, prior to initiating any construction on the Property;

Whereas, residual contamination remains at the Property and the approval of the response action was based on a non-industrial land use scenario (e.g., residential use classification, per ch. NR 720, Wis. Adm. Code). This would allow for industrial or non-industrial use of the Property, consistent with the limitations specified in the document;

Whereas, on November 7, 2011, WDNR determined that the response action necessary to restore the environment to the extent practicable and to minimize the harmful effects from the discharges to the air, land, and waters of the state was completed for contaminated soil and groundwater on the west half of the Property identified as Lot 1.

Whereas, WDNR has determined that public health, safety, or the environment will not be endangered by the hazardous substances remaining on or originating from the Property after completion of the response action as described in the previous paragraph, given the manner in which the Property will be developed and used and any other relevant factors;

Whereas, WDNR has determined that the activities associated with any proposed use or development of the Property will not aggravate or contribute to the discharge of a hazardous substance and will not unduly interfere with, or increase the costs of, restoring the property and minimizing the harmful effects of the discharge of a hazardous substance;

Whereas, **the City of Oshkosh** agrees to cooperate with WDNR to address any problems caused by the hazardous substances remaining on the Property and such cooperation shall include allowing access to the Property or allowing WDNR or its authorized representatives to undertake activities on the Property, including placement of borings, equipment and structures on the Property;

Whereas, if the requirements of this Certificate, the Case Closure letter or the Maintenance Plan are not followed the WDNR may take actions under ss. 292.11 or 292.12, Wis. Stats., to ensure compliance with the specified requirements, and the person who owns or controls Lot 1 may no longer qualify for the liability protections under s. 292.15, Wis. Stats.;

Whereas, **The City of Oshkosh** has paid to WDNR the appropriate insurance fee and has submitted a complete insurance application form to obtain coverage for the Property, including Lot 1, under the state's master insurance contract in accordance with s. 292.15(2)(ae)3m., Wis. Stats., and ch. NR 754, Wis. Adm. Code, based on their desire to use natural attenuation to remediate groundwater contamination that exceeds ch. NR 140, Wis. Adm. Code, groundwater quality enforcement standards;

Whereas, on **November 7, 2011,** the WDNR determined that response actions necessary to restore the environment on Lot 1 were completed, except with respect to groundwater contaminated with **benzene** above the ch. NR 140, Wis. Adm. Code, groundwater quality enforcement standards. The WDNR has determined that this groundwater contamination will be brought into compliance through natural attenuation, in accordance with administrative rules promulgated by the WDNR.

Therefore, based upon the information that has been submitted, the WDNR hereby certifies that the response actions set forth in the WDNR approved remedial action plan for Lot 1 and any other necessary response actions have been completed except with respect to petroleum (specifically benzene) contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards that WDNR has determined will be brought into compliance through natural attenuation, in accordance with rules promulgated by WDNR.

Upon issuance of this Partial Certificate for Lot 1, **The City of Oshkosh** and the persons qualified for protection under s. 292.15(3), Wis. Stats., are exempt from the provisions of ss. 291.37(2), and 292.11(3), (4), and (7)(b) and (c), Wis. Stats., with respect to the existence of hazardous substances on or originating from Lot 1, the release of which occurred prior to the date the WDNR approved the environmental investigation required under s. 292.15(2)(ae)1., Wis. Stats. However, the person who owns or controls Lot 1 would no longer qualify for this liability exemption if that person fails to maintain or monitor Lot 1 as required by the conditions in this Certificate, the **February 1, 2011** case closure letter, s. 292.12, Wis. Stats., and administrative rules promulgated by the WDNR. Any discharges of a hazardous substance to or from the Property that occur after the date that the environmental investigation was approved will be the responsibility of the current Property owner and any other person who possesses or controls that discharge and any person who caused the discharge.

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

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

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

SIGNED AND CERTIFIED this 12th day of December, 2011.

Mark F. Giesfeldt, Director
Bureau for Remediation and Redevelopment
Wisconsin Department of Natural Resources

ATTACHMENT A1
Partial Certificate of Completion
LEGAL DESCRIPTION – Full Property

See attached Warranty Deed Doc. # 1393421 recorded with Winnebago County Register of Deeds Office on April 4, 2006

Document Number

Warranty Deed

Document Title

1393421

REGISTER'S OFFICE
WINNEBAGO COUNTY, WI
RECORDED ON

04/04/2006 03:05PM

JULIE PAGEL
REGISTER OF DEEDS

RECORDING FEE 11.00
TRANSFER FEE $12
OF PAGES 1

Recording Area

Name and Return Address
Charge
City Attorney's Office
Oshkosh, WI 54902-1130

901-0230
Parcel Identification Number (PIN)

Brunswick Corporation, a Delaware Corporation, warrants and conveys to **REDEVELOPMENT AUTHORITY OF THE CITY OF OSHKOSH, WISCONSIN** a separate body public, located in Winnebago County, Wisconsin, the following described real estate in Winnebago County, State of Wisconsin:

Lots 1 and 2 of Block "A" in the Plat of the WESTERN ADDITION to Oshkosh, in the First Ward, City of Oshkosh, Winnebago County, Wisconsin, excepting therefrom that portion thereof heretofore conveyed to The Oshkosh City Railroad Company by Deed recorded in Volume 86 on Page 191.

That portion of Jay Street, as now vacated, lying south of the Southerly line of Marion Street, in the Plat of the WESTERN ADDITION to Oshkosh, in the First Ward, City of Oshkosh, Winnebago County, Wisconsin.

Lots 2,3,4,5,6,7,8,9,10,11,12,13 and 14 of Block "D" in the Plat of the WESTERN ADDITION to Oshkosh, in the First Ward, City of Oshkosh, Winnebago County, Wisconsin, excepting therefrom that portion thereof heretofore conveyed to The Oshkosh Railroad Company by Deeds recorded in Vol. 86 on Pages 193, 189 and 200.

That part of Lots 0 and 1 of Block "D" in the Plat of the WESTERN ADDITION to Oshkosh, in the First Ward, City of Oshkosh, Winnebago County, Wisconsin, lying southeasterly of a line described as follows: Commencing at the Northeasterly (most Easterly) corner of said Lot 1; thence northwesterly, along the Northeasterly line of said Lot 1 (being the Southwesterly line of Marion Street), 57.5 feet, to a point that is 80 feet southeasterly of, measured at right angles to, the former center line of the right of way of the Soo Line Railroad Company, and the point of commencement of said line; thence southwesterly, and parallel with the center line of said former railroad right of way, to the Northeasterly bank of the Fox River and the point of termination of said line, excepting therefrom that portion thereof heretofore conveyed to The Oshkosh Railroad Company by Deed recorded in Volume 86 on Page 200.

This is not homestead property.

Exceptions to warranty: Zoning provisions, easements and other restrictions of record.

Dated this 30 day of March, 2006.

BRUNSWICK CORPORATION

By: James C. Hubbard
JAMES C. HUBBARD
Vice President and Chief of Staff
Mercury Marine

STATE OF WISCONSIN)
) SS.
WINNEBAGO COUNTY)

Personally came before me this 30th day of March, 2006, the above-named James C. Hubbard, Vice President and Chief of Staff for Mercury Marine of **BRUNSWICK CORPORATION**, to me known to be such person and officer who executed the foregoing instrument and acknowledged that he executed the same as such officer by its authority for the purpose therein contained.

Trevor R. Grove
Notary Public, Fond du Lac Co., WI
My Commission is permanent

This instrument drafted by:
Attorney Warren P. Kraft
Oshkosh, WI 54903-1130

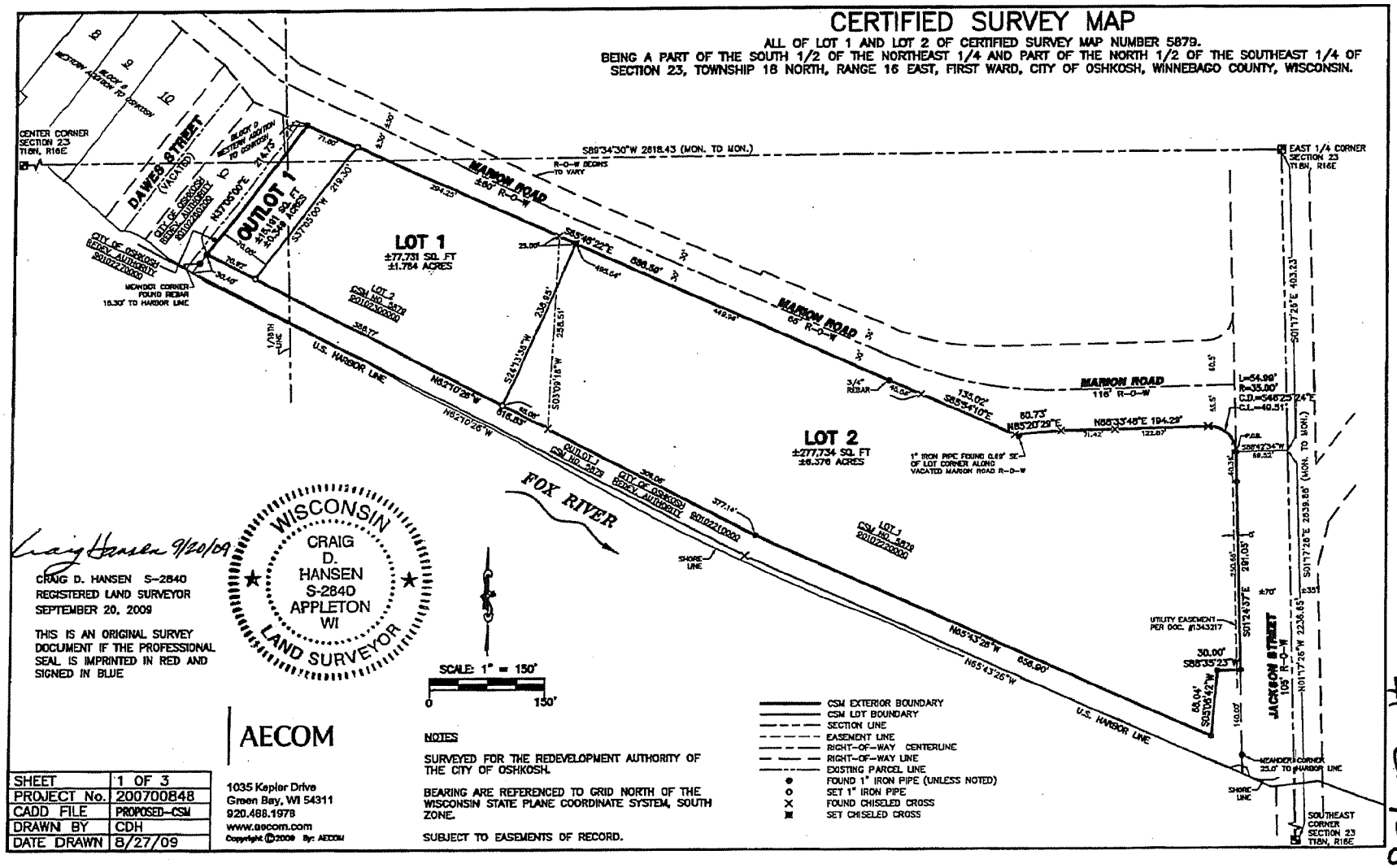
C

ATTACHMENT A2
Partial Certificate of Completion
Legal Description – Lot 1

Lot 1 of Certified Survey Map Number 6408, being a part of the South ½ of the Northeast ¼ and part of the North ½ of the Southeast ¼ of Section 23, Township 18 North, Range 18 East, City of Oshkosh, Winnebago County, Wisconsin in attached CSM 6408 recorded with Winnebago County Register of Deeds Office on October 5, 2009.

CERTIFIED SURVEY MAP

ALL OF LOT 1 AND LOT 2 OF CERTIFIED SURVEY MAP NUMBER 5879.
BEING A PART OF THE SOUTH 1/2 OF THE NORTHEAST 1/4 AND PART OF THE NORTH 1/2 OF THE SOUTHEAST 1/4 OF SECTION 23, TOWNSHIP 18 NORTH, RANGE 16 EAST, FIRST WARD, CITY OF OSHKOSH, WINNEBAGO COUNTY, WISCONSIN.



Craig Hansen 9/20/09

CRAIG D. HANSEN S-2840
REGISTERED LAND SURVEYOR
SEPTEMBER 20, 2009

THIS IS AN ORIGINAL SURVEY DOCUMENT IF THE PROFESSIONAL SEAL IS IMPRINTED IN RED AND SIGNED IN BLUE

WISCONSIN
CRAIG D. HANSEN S-2840 APPLETON WI
LAND SURVEYOR

AECOM

1035 Kepler Drive
Green Bay, WI 54311
920.468.1978
www.aecom.com
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SHEET	1 OF 3
PROJECT No.	200700848
CADD FILE	PROPOSED-CSM
DRAWN BY	CDH
DATE DRAWN	8/27/09

NOTES

SURVEYED FOR THE REDEVELOPMENT AUTHORITY OF THE CITY OF OSHKOSH.

BEARING ARE REFERENCED TO GRID NORTH OF THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.

SUBJECT TO EASEMENTS OF RECORD.

- CSM EXTERIOR BOUNDARY
- CSM LOT BOUNDARY
- SECTION LINE
- EASEMENT LINE
- RIGHT-OF-WAY CENTERLINE
- RIGHT-OF-WAY LINE
- EXISTING PARCEL LINE
- FOUND 1" IRON PIPE (UNLESS NOTED)
- SET 1" IRON PIPE
- FOUND CHISELED CROSS
- SET CHISELED CROSS

#6908

6408

CERTIFIED SURVEY MAP

ALL OF LOT 1 AND LOT 2 OF CERTIFIED SURVEY MAP NUMBER 5879.
BEING A PART OF THE SOUTH 1/2 OF THE NORTHEAST 1/4 AND PART OF THE NORTH 1/2 OF THE SOUTHEAST 1/4 OF SECTION 23, TOWNSHIP 18 NORTH, RANGE 16 EAST, FIRST WARD, CITY OF OSHKOSH, WINNEBAGO COUNTY, WISCONSIN.

AECOM

1035 Kepler Drive
Green Bay, WI 54311
920.468.1978
www.aecom.com
Copyright ©2009 By: AECOM

SURVEYORS CERTIFICATE

I, Craig D. Hansen, registered land surveyor, hereby certify: That in full compliance with the provisions of Chapter 236, section 236.34 of the Wisconsin Statutes, the Land Subdivision Ordinance of Winnebago County, and the City of Oshkosh, and under the direction of the Redevelopment Authority of the City of Oshkosh, owner of said land, I have surveyed, divided and mapped the following land being all of Lot 1 and Lot 2 of Certified Survey Map Number 5879. Being a part of the South 1/2 of the Northeast 1/4 and part of the North 1/2 of the Southeast 1/4 of Section 23, Township 18 North, Range 16 East, First Ward, City of Oshkosh, Winnebago County, Wisconsin, more fully described as follows:

Commencing at the East ¼ corner of said Section 23; thence S01°17'26"E along the east line of the Northeast 1/4 of said section, 403.23 feet; thence S88°42'34"W, 69.52 feet to a point on the west right-of-way of Jackson Street and the easterly line of Lot 1 of Certified Survey Map Number 5879, that also being the Point of Beginning; thence along said right-of-way and the easterly line of said Lot 1 S01°24'37"E, 291.05 feet; thence along the easterly line of said Lot 1 S88°35'23"W, 30.00 feet; thence continuing along the easterly line of said Lot 1 S05°06'42"W, 88.04 feet to the southeast corner of said Lot 1; thence along the southerly line of said Lot 1 N65°43'26"W, 656.90 feet; thence N62°10'26"W, 816.83 feet along the southerly line of said Lot 1 and the southerly line of Lot 2 of Certified Survey Map Number 5879 to the southwesterly corner of said Lot 2; thence along the westerly line of said Lot 2 N37°05'00"E, 214.73 feet to a point on the southerly right-of-way of Marion Road and the northwest corner of said Lot 2; thence along said southerly right-of-way S65°46'22"E, 886.59 feet; thence continuing along said southerly right-of-way S65°54'10"E, 135.02 feet; thence continuing along said southerly right-of-way N85°20'29"E, 60.73 feet; thence continuing along said southerly right-of-way N88°33'48"E, 194.29 feet; thence continuing along said southerly right-of-way 54.99 feet on a curve to the right having a radius of 35.00 feet, whose chord bears S46°25'24"E, 49.51 feet to a point on the westerly right-of-way of Jackson Street and the Point of Beginning.

Said parcel contains 370,656 square feet or 8.509 acres more or less.

Said parcel is subject to easements of record.

That the survey of said land was done under my direct supervision and the map hereon is a true and accurate representation of the exterior boundaries and the division thereof.

Craig Hansen 9/20/09

CRAIG D. HANSEN S-2840
REGISTERED LAND SURVEYOR.
SEPTEMBER 20, 2009

THIS IS AN ORIGINAL SURVEY DOCUMENT IF THE PROFESSIONAL SEAL IS IMPRINTED IN RED AND SIGNED IN BLUE

WISCONSIN
CRAIG D. HANSEN S-2840 APPLETON WI
LAND SURVEYOR

SHEET	2 OF 3
PROJECT No.	200700848
CADD FILE	PROPOSED-CSM
DRAWN BY	CDH
DATE DRAWN	8/27/09

ATTACHMENT B
Partial Certificate of Completion
Investigation and Remedial Action Plan Reports

1. Phase I Environmental Site Assessment (ESA), March 29, 2006, STS-AECOM
2. Phase II Environmental Subsurface Assessment and Remedial Action Plan, March 27, 2008, STS-AECOM
3. GIS Registry files from BRRTS #02-71-516785
   - http://dnrmaps.wi.gov/
   - http://dnrmaps.wi.gov/efiles/Ner/Winnebago/02%20ERP/0271516785/0271516785.pdf
3. Request for Partial Certificate of Completion, October 31, 2011, AECOM

ATTACHMENT C
Partial Certificate of Completion
Closure Letter and Cap Maintenance Plan

See the attached:

- February 1, 2011, Case Closure Letter and
- Updated cap maintenance plan for the parcel identified as Lot 1 (The Rivers) site.

commerce.wi.gov
Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
375 City Center, Suite I
Oshkosh, Wisconsin 54901-1805
TTY: Contact Through Relay
Fax: (920) 424-0217
Scott Walker, Governor
Paul F. Jadin, Secretary

February 1, 2011

Darryn Burich
Planning Director
215 Church Ave
PO Box 1130
Oshkosh WI 54903-1130

RE: **Final Closure with Land Use Limitation to Address Direct Contact Risk**
Commerce # 54901-4720-00-A DNR BRRTS # 02-71-516785
Marion Road ROW, 400 Block Marion Rd, Oshkosh

Dear Mr. Burich:

The Wisconsin Department of Commerce (Commerce) has determined that this site does not pose a significant threat to human health and the environment as long as current and subsequent property owners adhere to the following limitation:

The barrier cap must be maintained in accordance with the enclosed maintenance plan.

Commerce has the authority per section 292.12(2), Wis. Stats., to require the maintenance of a barrier cap at this property. Failure to adhere to this limitation may result in financial penalties from $10 to $5,000 per day in accordance with section 292.99(1), Wis. Stats. Commerce may conduct inspections to ensure compliance with the maintenance plan. In the future, you may request that Commerce review *new* information to determine if the cap requirement can be changed or removed.

The following activities are prohibited on any portion of the property where a pavement cap or other barrier is required, as identified on the attached map, unless prior written approval has been obtained from Commerce: 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.

This site is now listed as "closed" on the Commerce database and will be included on the Department of Natural Resources (DNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual soil and groundwater contamination. To review all sites on the GIS Registry web page, visit http://dnr.wi.gov/org/aw/rr/gis/index.htm. It is in your best interest to keep all documentation related to the environmental activities at your site.

If you intend to construct or reconstruct a potable well on this property, you must get prior DNR approval. To obtain approval, complete Form 3300-254, GIS Registry Site Well Approval Application, and submit it to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at http://www.dnr.state.wi.us/org/water/dwg/3300254.pdf or through the GIS Registry web address listed above.

All current and future owners and occupants of the property need to be aware that excavation of contaminated soil may pose a hazard. Special precautions may be needed to prevent inhalation,

ingestion or dermal contact with the residual contamination when it is removed. If soil is excavated, the property owner at the time of excavation must have the soil sampled and analyzed to determine if residual contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation must determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules.

Depending on site-specific conditions, construction over contaminated materials may result in vapor migration into enclosed structures or along newly placed underground utility lines. The potential for vapor inhalation and migration 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.

Costs for sampling and excavation activities conducted after case closure are not eligible for PECFA reimbursement. However, if it is determined that any undisturbed remaining petroleum contamination poses a threat, the case may be reopened and further investigation or remediation may be required. If this case is reopened, any original claim under the PECFA fund would also reopen and you may apply for assistance to the extent of remaining eligibility.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (920) 424-0025.

Sincerely,

Tom Verstegen
Hydrogeologist – Dept of Commerce
PECFA - Site Review Section

Enclosure

cc: Andrew Mott - AECOM
Craig Dousharm, Mercury Marine, PO Box 1939, Fond du Lac WI 54936

Soil Performance Standard Cover System
Former Mercury Marine Parcel – Plant 24
Former 449 Marion Road
Oshkosh, Wisconsin

October 31, 2011

MERCURY MARINE
Property Located at 449 Marion Road, Oshkosh
Parcel ID No.:

Introduction

This document describes the Soil Performance Standard Cover System at the above-referenced site in accordance with the requirements of Wisconsin Administrative Code (WAC) Chapter (ch.) NR 720.19(2). The soil is impacted by lead, polynuclear aromatic hydrocarbons (PAHs) and volatile organic compounds (VOCs). The location of the cap to be maintained in accordance with this Maintenance Plan is shown on Exhibit A of the Barrier Maintenance Plan.

Cap Purpose

The cap over the contaminated soil serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. Based on the current and future use of the property, the cap should function as intended unless disturbed.

Description of Cover System

The performance standard cover system for the subject property recognizes the recently construction building, parking lot, and soil cover as a suitable direct contact barrier. This remedial alternative was selected as a lowest cost action which would be protective of human health and the environment.

The technical feasibility of the cover system is appropriate based on the relatively low mobility of contaminants in the soils. The proposed cover system will be protective of human health, safety and welfare, and the environment over both short-term and long-term time periods.

Institutional controls include registry on the WNDR's GIS database, as well as, conducting annual inspection and maintenance. The property owner will conduct annual inspections and maintain the cap in accordance with the attached Maintenance Plan, to ensure integrity of the cap.

Contact Information (as of April 19, 2011)

Current Property Owner:
City of Oshkosh Redevelopment Authority
215 Church Avenue
Oshkosh, Wisconsin 54901
(920) 236-5059

Environmental Consultant
AECOM
558 North Main Street
Oshkosh, Wisconsin 54901
Contact: Andrew Mott
Phone: (920) 236-6713

SOIL COVER MAINTENANCE PLAN

October 31, 2011

Property Located at:
Former Mercury Marine Parcel – Plant 24
449 Marion Road
Oshkosh, Wisconsin

WDNR BRRTS No. 21-71-282521

Parcel No.: 0102300000

Parcel Description: Lot 1 CSM 6408 DOC #1520619 R of D

Introduction

This document is the Maintenance Plan for a turf and pavement cover at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities described in this plan relate to the existing paved surfaces and grass turf areas occupying contaminated groundwater plume or soil on-site. The contaminated groundwater plume is impacted by volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). The location of the paved and turf surfaces to be maintained in accordance with this Maintenance Plan, which is comparable to the impacted groundwater plume, are identified in the attached map (Exhibit A). The area to be maintained is south of Marion Road and north of the Fox River.

Cover and Building Barrier Purpose

The paved and turf surfaces over the contaminated soil and groundwater plume serve as a barrier to prevent direct human contact with residual contamination that might otherwise pose a threat to human health. Based on the current and future use of the property as senior apartments and parking lot, the barriers should function as intended unless disturbed. Groundwater contamination is isolated and exists about 3 to 8 feet below the pre-existing ground surface. The presence of turf on the remaining areas will prevent erosion and exposure to contaminants.

Annual Inspection

The paved and turf surfaces overlying the contaminated soil and groundwater plume and as depicted in Exhibit A will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks, bare areas, dead or dying vegetation and other potential problems that can cause exposure to underlying soils. 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 City of Oshkosh and is included as Exhibit B, 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. The inspection log will be kept on file at City offices and made immediately available for review by the Wisconsin Department of Natural Resources (WNDR), its successor, and/or other state agency. Do not submit a copy of the log annually.

Sub slab Venting and Vapor Barrier System for Buildings

A sub slab venting and vapor barrier system has been installed in The Rivers. The system consists of perforated piping system, bedding in clear stone with a continuous plastic barrier beneath the floor slab. Please see photo log in the Request for Certificate of Completion, Appendix G For documentation. The integrity of these systems needs to be maintained. All vents need to be maintained and unobstructed.

Any future modifications to the building needs to take in account the integrity of this system. These restrictions should be reviewed on an annual basis.

Maintenance Activities

This Maintenance Plan covers only routine maintenance and repair activities to the parking lot pavement and turf-covered ground surfaces within the area designated. 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 include patching and filling operations, reseeding, and re-grading. 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 protective equipment. Any soil removed from the designated area must be treated, stored, and disposed of in accordance with the applicable local, state, and federal regulations.

Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WNDR or its successor.

The property owner, in order to maintain the integrity of the paved or turf surfaces, will maintain a copy of this Maintenance Plan on file at its offices and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

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 the WDNR.

Contact Information

October 2011

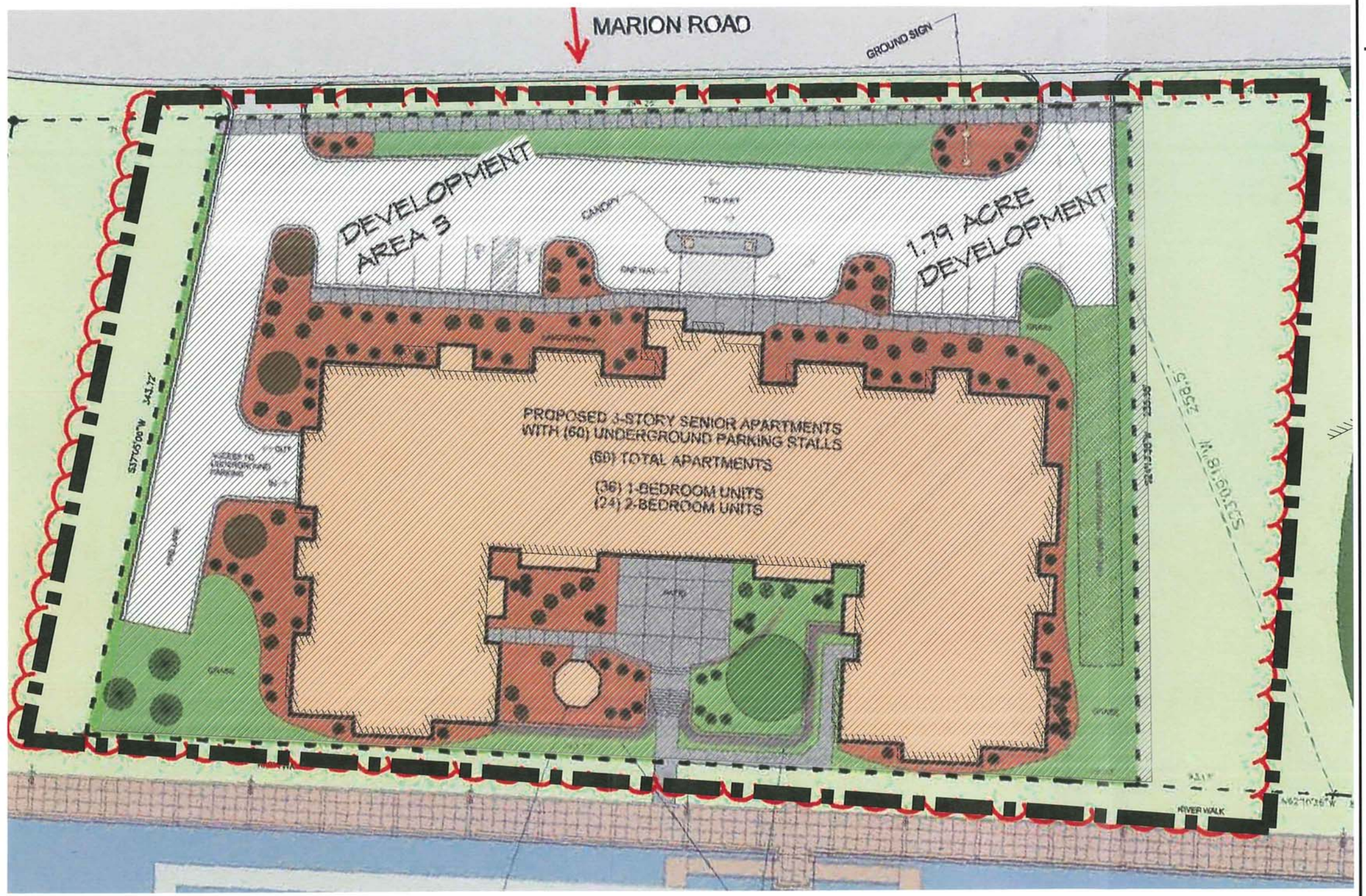
Site Owner and Operator:
City of Oshkosh Redevelopment Authority
215 Church Ave
Oshkosh, Wisconsin 54901
(920) 236-5059

Consultant:
AECOM
Contact: Andrew Mott
558 North Main Street
Oshkosh, Wisconsin 54901
(920) 236-6713

Wisconsin Department of Natural Resources:
Kathleen Sylvester
Bureau of Remediation and Redevelopment
625 East County Road Y, Suite 700
Oshkosh, Wisconsin 54901
(608) 275-3212

Soil Cover Maintenance Plan accepted:

_____
Darryn Burich, Director of Planning Services
City of Oshkosh, Wisconsin



0 40

1" = 40'

LEGEND

- SENIOR APARTMENTS REDEVOLPMENT BOUNDARY
- EXISTING BUILDING
- B-3 STS SOIL BORING LOCATION
- MMSB-4 STS MONITORING WELL LOCATION
- MW-3 STS ABANDONED MONITORING WELL
- HA-4 STS HAND AUGER LOCATION
- MW-4 SIGMA MONITORING WELL LOCATION
- 64W97-18 SIGMA ABANDONED MONITORING WELL
- BARRIER MAINTENANCE AREA (CAP)

AECOM

MILWAUKEE OFFICE
1020 North Broadway
Milwaukee, WI
414.225.5100

BARRIER MAINTENANCE PLAN
SENIOR APARTMENTS
FORMER MERCURY MARINE
OSHKOSH, WISCONSIN

Drawn :	ALB	06/11/2009
Checked:	SAP	4/28/2011
Approved:	HAC	
PROJECT NUMBER	60149623	
FIGURE NUMBER	EXHIBIT A	

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Exhibit B
BARRIER INSPECTION LOG

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

PLAN NOTES

1. ALL SIDEWALK REPAIRS OVER TRENCH EXCAVATIONS REQUIRE THREE #4 REINFORCING BARS EQUALLY SPACED AND CENTERED MID-DEPTH IN THE CONCRETE.

2. HDPE PIPE IS NOT ALLOWED WITHIN CITY RIGHT OF WAY OR ON EASEMENTS. NOTE THAT THE STORM SEWER PIPE FROM THE OUTFALL TO THE FIRST MANHOLE IS RCP.

3. SANITARY SEWER SERVICE LINES SHALL BE PVC SCHEDULE 40.

4. CONNECT SANITARY SEWER SERVICE TO SANITARY SEWER MAIN BY USE OF AN "INSERTA-TEE" (H) OR CORE-AND-SADDLE CONNECTION.

5. WATER SERVICE LINES 2" OR SMALLER SHALL BE METALLIC WITHIN THE RIGHT OF WAY AND CONNECTED TO THE MAIN WITH A CORPORATION. WATER SERVICE LINES GREATER THAN 2" SHALL BE OF DUCTILE IRON CLASS 52 WITHIN THE RIGHT OF WAY AND CONNECTED TO THE MAIN USING A TAPPING VALVE AND STAINLESS STEEL SLEEVE.

ALL WATER SERVICES 2" OR LESS SHALL HAVE A CURB STOP INSTALLED IN THE RIGHT OF WAY 6 FT FROM THE RIGHT-OF-WAY LINE.

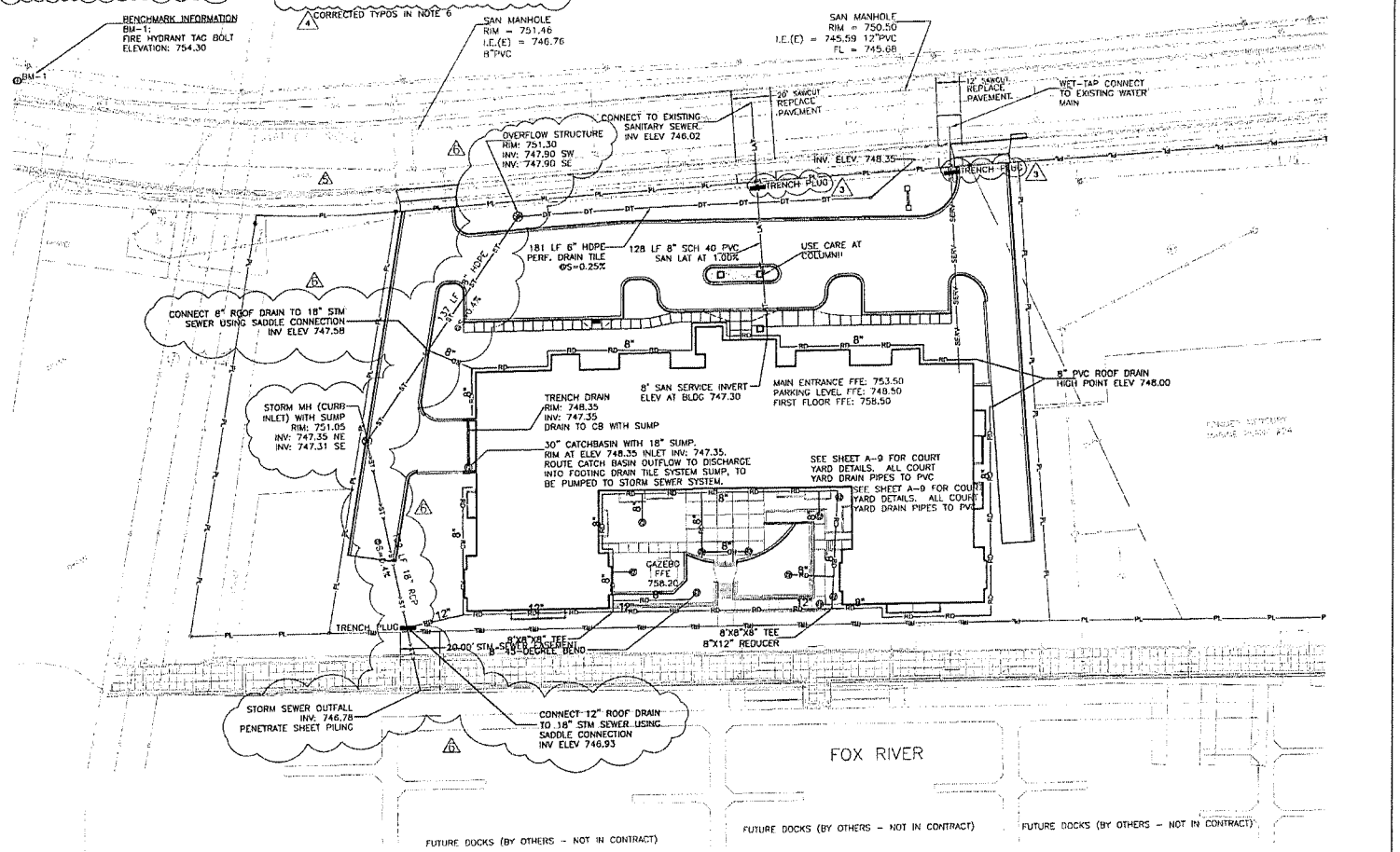
6. CONTACT MR. JACK REICHENBERGER OF THE CITY OF OSHKOSH WATER DISTRIBUTION UTILITY AT (920) 232-5330 AT LEAST 7 DAYS BEFORE DOING ANY WORK INVOLVING THE PUBLIC MAIN, INCLUDING SERVICE LINE CONNECTIONS.

3 CORRECTED TYPOS IN NOTE 6

7. CONTRACTOR SHALL INSTALL SCOTCHMARK 1404-XR WASTE WATER MARKER BALLS TO MARK LOCATION OF SANITARY SEWER LATERAL. INSTALL ONE BALL AT CONNECTION TO THE MAIN, ONE BALL AT 2 FT INTO THE CITY RIGHT OF WAY, AND ONE BALL AT ALL HORIZONTAL AND VERTICAL BENDS. MAXIMUM BALL BURY DEPTH IS 5'.

8. REVISION 3 INCLUDED ADDITIONAL PLAN INFORMATION ON SLOPES, INVERTS, TRENCH PLUGS FOR SERVICE LINES, AND PIPE MATERIALS IN ADDITION TO THE PLAN NOTES.

4 ADDED BALL BURY DEPTH TO NOTE 7



5 THE ONLY CHANGES TO THIS SHEET FOR REVISION 5 ARE 1) THE ELIMINATION OF NEW CURB AND CUTTER AT THE CURB OPENING TO THE PARCEL WEST OF THE PROJECT SITE, AND 2) AN ADDITION TO PLAN NOTE 5.

AECOM

538 North Milwaukee Street
Oshkosh, WI 54901
920.233.6079
www.aecom.com

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THE RIVERS SENIOR LIVING
475 MARION ROAD
OSHKOSH, WISCONSIN

UTILITY PLAN

Rev	Date	Description
4	9/08/2014	INCORPORATE STORM MANHOLES
3	8/14/2014	REVISE PER CITY OF OSHKOSH
2	8/01/2014	REVISE PER CITY OF OSHKOSH
1	8/01/2014	REVISE PER CITY OF OSHKOSH
0	8/01/2014	ISSUED FOR CITY OF OSHKOSH REVIEW

Designed CSV 08/01/2014
Drawn ALS 08/01/2014
Checked KJM 08/08/2014
Approved

PROJECT NUMBER
60101641

SHEET REFERENCE NUMBER
C5.0

ATTACHMENT D
Partial Certificate of Completion
Historic Fill Handling Plan

See the attached plan.

ATTACHMENT D

AECOM

AECOM
558 North Main Street
Oshkosh, WI 54901

920.235.0270 tel
920.235.0321 fax

Memorandum

To	Kathy Sylvester, WDNR	Page 1
CC	Darlene Brandt, City of Oshkosh	
Subject	Historic Fill/Soil Management Plan Outline, Marion Zone Redevelopment Area AECOM Project Number 60149623	
From	Paul Timm, AECOM	
Date	November 16, 2011	

The redevelopment of the Marion Zone area has presented several challenges. Each challenge has been overcome utilizing engineering practices that take into consideration the Wisconsin Department of Natural Resources (WDNR) guidelines and goals related to site remediation and protecting the environment. The most significant challenge has been the discovery of impacts from the historic use of the site. During facility demolition and environmental subsurface investigations, the subsurface was found to be filled with various solid wastes and impacted by isolated petroleum and solvent releases. In addition, the shallow natural soils had been reworked and mixed with the various solid wastes. The solid waste was found at varying concentration and depths across the entire redevelopment area. Each petroleum and/or solvent spill was dealt with on a case by case basis, but the extent and degree of the historic fill required a more general site wide approach to allow redevelopment. This approach was developed with WDNR input. The plan includes the following phases:

1. Investigation and identification of the character and extent of the fill.
2. Preparation of a cost analysis to identify the most cost effective approach to site redevelopment. The analysis included foundation type, site/building elevation, parking, storm water control, and utility corridors.
3. Promoting the use of innovative foundation types to limit excavation activities.
4. Requiring disposal of all fill and soil generated during construction at a Licensed landfill.
5. Requiring full time documentation of all excavation activities to segregate fill types to effectively identify and handle any unknown issues discovered during excavation.
6. Requiring permanent capping during redevelopment on the entire site using paved parking areas, building foundations, warning barriers under landscape areas, and lined Biofiltration storm water systems.
7. Requiring installation of plugs on all utility corridors to limit groundwater migration
8. Requiring sub slab vapor venting systems.

All of these controls have been utilized on each redevelopment project in this area. Specific details can be found in the Certificate of Completion documentation for each redevelopment project.

Sincerely yours,

Paul F. Timm
Paul.Timm@aecom.com

Document Number

Warranty Deed

Document Title

1393421

REGISTER'S OFFICE
WINNEBAGO COUNTY, WI
RECORDED ON

04/04/2006 03:05PM

JULIE PAGEL
REGISTER OF DEEDS

RECORDING FEE 11.00
TRANSFER FEE #12
OF PAGES 1

Recording Area

Name and Return Address

Charge
City Attorney's Office
Oshkosh, WI 54902-1130

Brunswick Corporation, a Delaware Corporation, warrants and conveys to **REDEVELOPMENT AUTHORITY OF THE CITY OF OSHKOSH, WISCONSIN** a separate body public, located in Winnebago County, Wisconsin, the following described real estate in Winnebago County, State of Wisconsin:

Lots 1 and 2 of Block "A" in the Plat of the WESTERN ADDITION to Oshkosh, in the First Ward, City of Oshkosh, Winnebago County, Wisconsin, excepting therefrom that portion thereof heretofore conveyed to The Oshkosh City Railroad Company by Deed recorded in Volume 86 on Page 191.

That portion of Jay Street, as now vacated, lying south of the Southerly line of Marion Street, in the Plat of the WESTERN ADDITION to Oshkosh, in the First Ward, City of Oshkosh, Winnebago County, Wisconsin.

901-0230
Parcel Identification Number (PIN)

Lots 2,3,4,5,6,7,8,9,10,11,12,13 and 14 of Block "D" in the Plat of the WESTERN ADDITION to Oshkosh, in the First Ward, City of Oshkosh, Winnebago County, Wisconsin, excepting therefrom that portion thereof heretofore conveyed to The Oshkosh Railroad Company by Deeds recorded in Vol. 86 on Pages 193, 189 and 200.

That part of Lots 0 and 1 of Block "D" in the Plat of the WESTERN ADDITION to Oshkosh, in the First Ward, City of Oshkosh, Winnebago County, Wisconsin, lying southeasterly of a line described as follows: Commencing at the Northeasterly (most Easterly) corner of said Lot 1; thence northwesterly, along the Northeasterly line of said Lot 1 (being the Southwesterly line of Marion Street), 57.5 feet, to a point that is 80 feet southeasterly of, measured at right angles to, the former center line of the right of way of the Soo Line Railroad Company, and the point of commencement of said line; thence southwesterly, and parallel with the center line of said former railroad right of way, to the Northeasterly bank of the Fox River and the point of termination of said line, excepting therefrom that portion thereof heretofore conveyed to The Oshkosh Railroad Company by Deed recorded in Volume 86 on Page 200.

This is not homestead property.

Exceptions to warranty: Zoning provisions, easements and other restrictions of record.

Dated this 30 day of March, 2006.

BRUNSWICK CORPORATION

By: James C. Hubbard
JAMES C. HUBBARD
Vice President and Chief of Staff
Mercury Marine

STATE OF WISCONSIN)
) SS.
WINNEBAGO COUNTY)

Personally came before me this 30th day of March, 2006, the above-named James C. Hubbard, Vice President and Chief of Staff for Mercury Marine of **BRUNSWICK CORPORATION**, to me known to be such person and officer who executed the foregoing instrument and acknowledged that he executed the same as such officer by its authority for the purpose therein contained.

Trevor R. Grove
Notary Public, Fond du Lac Co., WI
My Commission is permanent

This instrument drafted by:
Attorney Warren P. Kraft
Oshkosh, WI 54903-1130

C

STATEMENT OF AFFECTED PROPERTY LEGAL DESCRIPTION

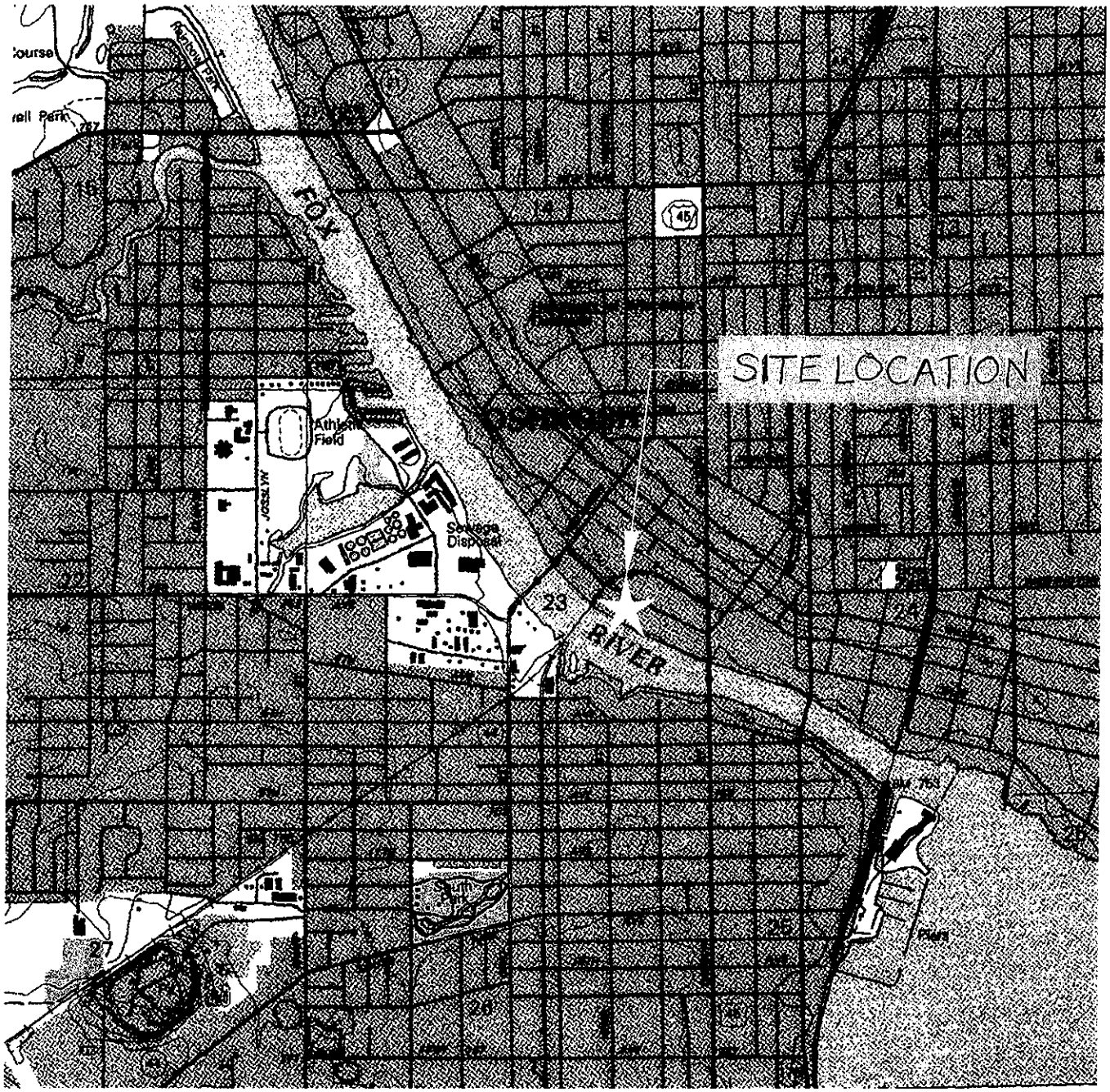
As required by s. NR 726.05(3) of the Wisconsin Administrative Code, the City of ~~Appleton~~ Oshkosh DB is providing the following signed statement: To the best of our knowledge, the legal description for the property that is within or partially within the contaminated site boundary for the Mercury Maine Plant 64 Candle Plant site at 400 Marion Road in Oshkosh, Winnebago County, Wisconsin, has been provided to the Wisconsin Department of Natural Resources.

(Signature) (Date) 1/16/07

Darryn Burich
(Name)

Principal Planner
(Title)

City of Oshkosh
(Company)



QUADRANGLE LOCATION
SOURCE: OSHKOSH 1992 QUADRANGLE MAP

SCALE: 1 INCH = 2,000 FEET

N

STS CONSULTANTS
558 N. Main Street
Oshkosh, WI 54901
920-235-0270
www.stsconsultants.com
Copyright ©2004, By: STS Consultants, Ltd.

SITE LOCATION MAP
MERCURY MARINE - PLANT 64 CANDLE PLANT
CITY OF OSHKOSH
OSHKOSH, WISCONSIN

Drawn:	AGM	3/9/06
Checked:	AGM	3/9/06
Approved:	SMM	3/9/06
PROJECT NUMBER	426678XA	
FIGURE NUMBER	1	

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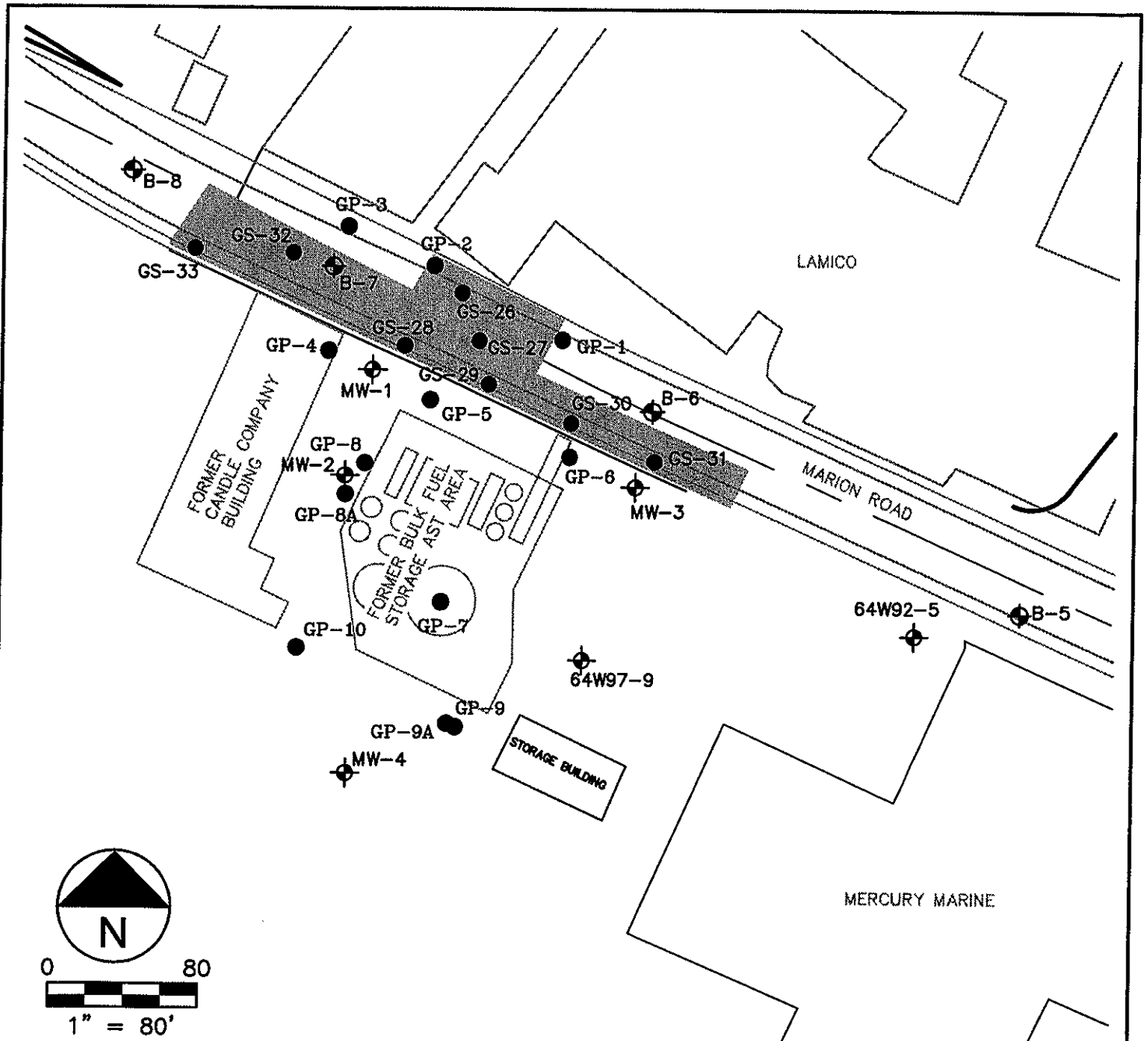

LEGEND

- ● GS-21 –CONFIRMATION SAMPLE LOCATION
- ● GP-10 –GEO PROBE LOCATION
- –APPROXIMATE LOCATION OF EXCAVATION
- –MERCURY MARINE MONITORING WELLS
- –RAZED STRUCTURES

STS CONSULTANTS
558 North Main Street
Oshkosh, WI 54901
920-235-0270
www.stsconsultants.com
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SOIL EXCAVATION DIAGRAM
MARION ROAD ROW
CITY OF OSHKOSH
OSHKOSH, WISCONSIN

Drawn:	MAS	12/8/2006
Checked:	AGM	12/8/2006
Approved:	AGM	12/8/2006
PROJECT NUMBER	X426678XA	
FIGURE NUMBER	2	

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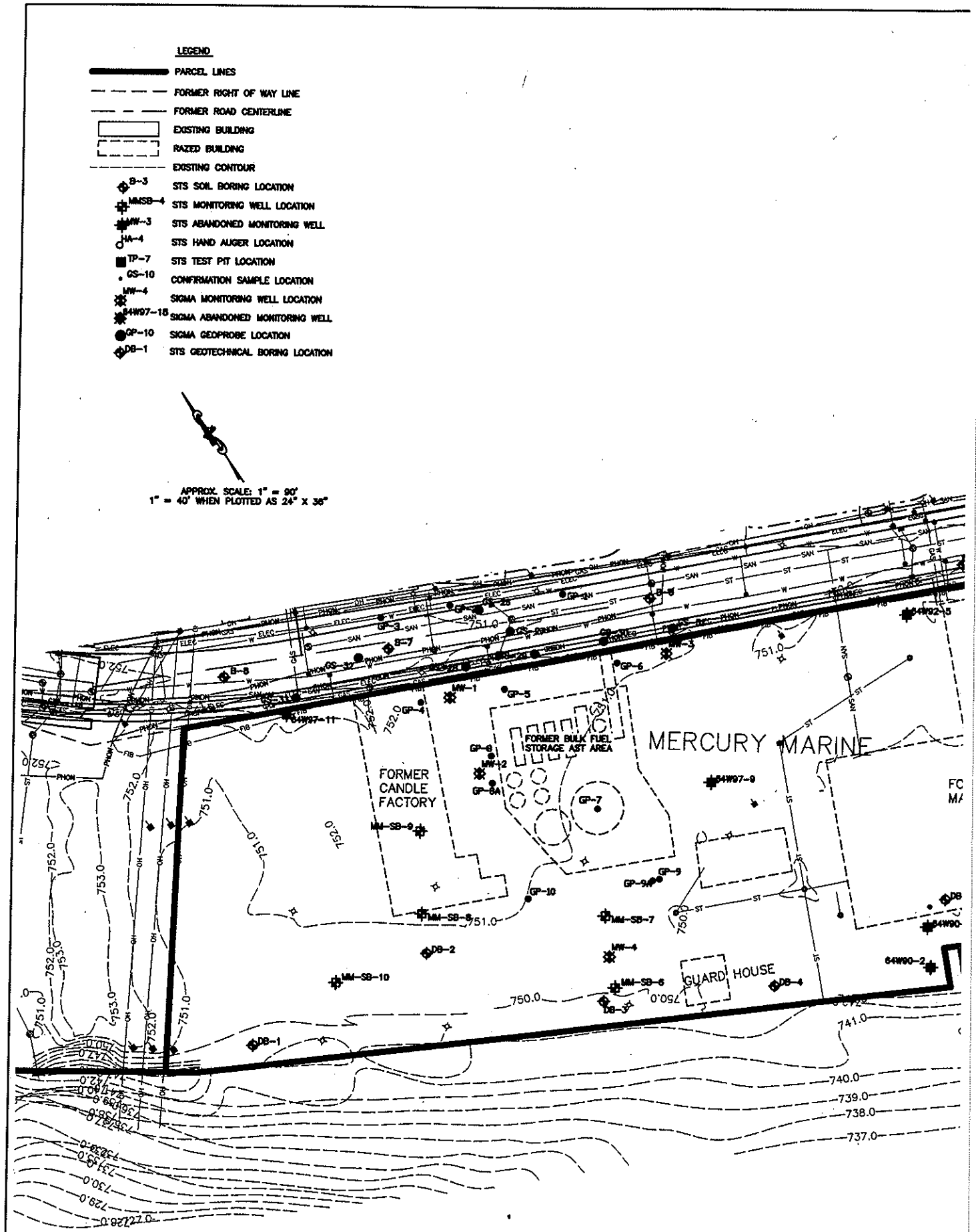
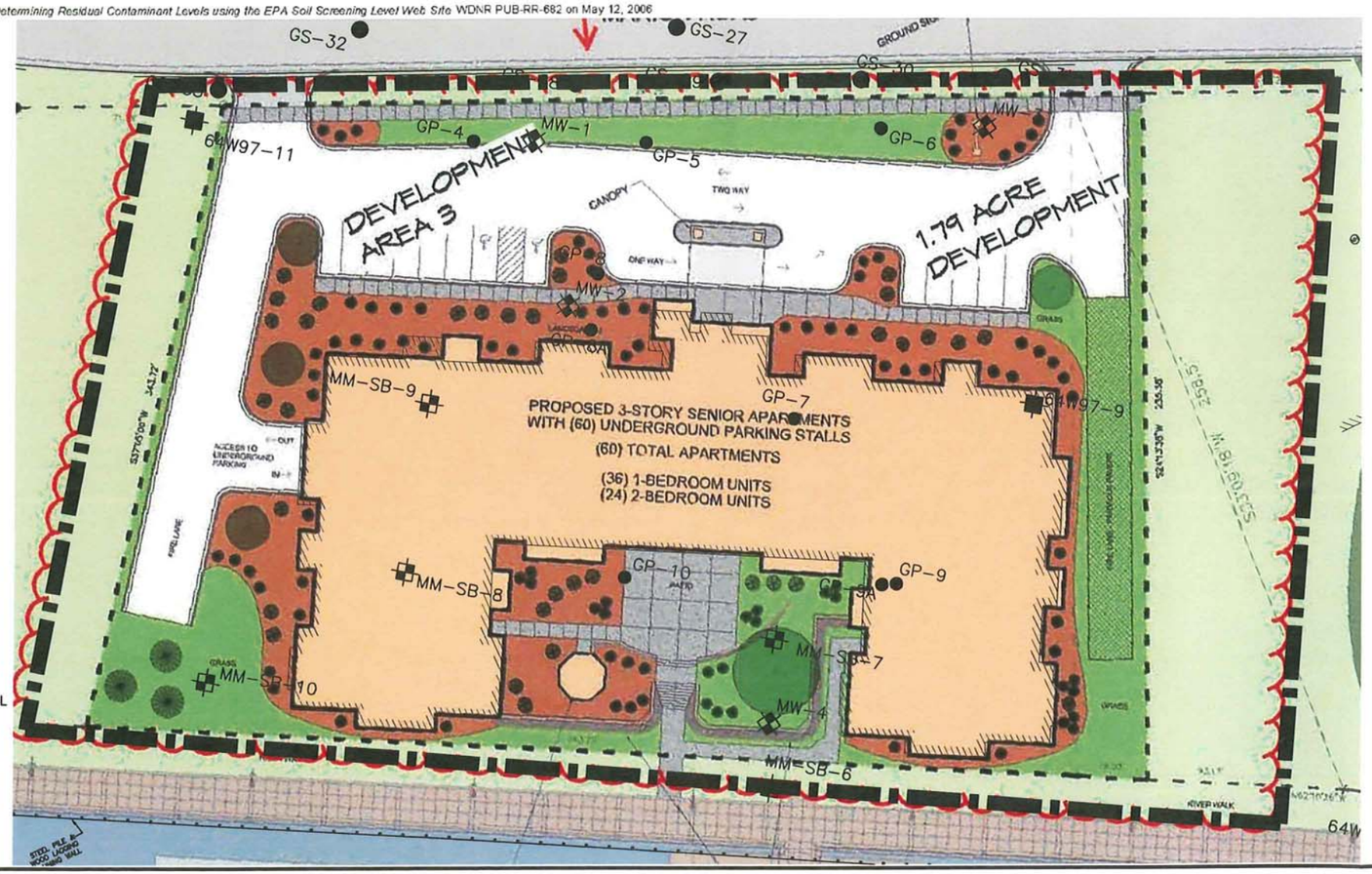


Figure 2 A
Other Investigation

Parameters	Generic RCLs: Direct Contact Pathway, Non-Industrial	Generic RCLs: Direct Contact Pathway, Industrial	Generic RCLs: Groundwater Pathway	NR 746 Soil Screening Levels	GP-4 2-4' Fill 3/18/04	GP-4 6-8' Silt/Clay 3/18/04	GP-5 0-2' Fill 3/18/04	GP-5 4-6' Silt 3/18/04	GP-6 0-4' Fill 3/18/04	GP-6 4-6' Silt/Clay 3/18/04	GP-7 0-2' Fill 3/18/04	GP-7 4-6' Fill/Silt/Clay 3/18/04	GP-8 0-4' Fill 3/18/04	GP-8 4-5' Silt 3/18/04	GP-9 0-4' Fill 3/18/04	GP-9 4-6' Fill/Clay 3/18/04	GP-10 0-2' Fill 3/18/04	GP-10 6-8' Clay 3/18/04	MM-SB-6 2.5-4.5' Fill 5/23/07	MM-SB-9 5-7' Clay 5/23/07	MM-SB-10 2.5-4.5' Fill 5/23/2007	MM-SB-10 10-12' Clay 5/23/2007
Metals (mg/kg)																						
Lead	50 [E]	500 [E]	–	–	**79.0** [A]	8.46	31.6	**440** [A]	41.9	**63.0** [A]	21.9	11.4	34.7	**195** [A]	**156** [A]	19.5	19.4	15.0	NA	NA	NA	NA
VOCs (µg/kg)																						
Benzene	1,100 [E]	52,000	5.5 [E]	8,500	ND	ND	**45.2** [C]	ND	ND	ND	ND	ND	ND	ND	ND	ND	**40.1** [C]	ND	<10	<10	<10	<10
Bromomethane	21,900	1,430,000	4.0	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<17	**87.1** [C]	<17	**27.1** [C]
Naphthalene	60,000 [E]	4,000,000 [E]	400 [E]	2,700	111	ND	216	ND	273	**2,350** [C]	133	ND	47.7	ND	215	53.5	**643** [C]	ND	234	<7.0	77.6	<7.0
PAHs (µg/kg) [F]																						
Acenaphthylene	18,000	360,000	700	–	561	ND	ND	ND	ND	**1,640** [C]	ND	ND	ND	**8,340** [C]	254	ND	ND	ND	<82.3	<9.0	<7.6	<8.9
Benzo(a)anthracene	88	3,900	17,000	–	**1,180** [A]	ND	**113** [A]	ND	**110** [A]	**698** [A]	ND	76.4	69.6	**218** [A]	**227** [A]	ND	**150** [A]	ND	<51.1	<5.6	40.1	<5.6
Benzo(a)pyrene	8.8	390	48,000	–	**706** [AD]	ND	**53.3** [A]	ND	**326** [A]	**405** [AD]	**48.3** [A]	7.74	**47.8** [A]	**76.2** [A]	**210** [A]	**13.8** [A]	**79.0** [A]	ND	**68** [A]	<3.2	**66.2** [A]	<3.1
Benzo(b)fluoranthene	88	3,900	360,000	–	**890** [A]	ND	58.7	ND	70	**201** [A]	ND	ND	ND	ND	**204** [A]	ND	**106** [A]	ND	**89.5** [A]	<2.9	**90.8** [A]	<2.8
Chrysene	8,800	390,000	37,000	–	977	ND	ND	ND	ND	6,720	ND	**9,910** [A]	ND	ND	168	ND	122	ND	176	<3.2	133	<3.1
Dibenzo(a,h,)anthracene	8.8	390	38,000	–	**683** [AD]	ND	ND	ND	ND	**326** [A]	ND	ND	ND	**17.6** [A]	**21.8** [A]	ND	**177** [A]	ND	<33.7	<3.7	<3.1	<3.7
Indeno(1,2,3-cd)pyrene	88	3,900	680,000	–	**631** [A]	ND	ND	ND	ND	ND	ND	ND	ND	**103** [A]	**229** [A]	ND	ND	ND	46.2	<3.0	56.8	<3.0
Naphthalene	20,000	110,000	400	–	ND	ND	142	ND	ND	**1,420** [C]	ND	ND	ND	ND	153	ND	**507** [C]	ND	68.7	<6.3	<5.3	<6.2
Phenanthrene	18,000	390,000	1,800	–	1,040	ND	275	ND	ND	**5,290** [C]	172	259	ND	**3,000** [C]	167	747	575	ND	<51.1	<5.6	167	<5.6
GRO (mg/kg)	–	–	100	–	<5.59	<6.23	7.95	21.9	<5.59	**330** [C]	22.6	<6.99	<5.96	**484** [C]	10.2	30.7	13.7	<7.04	NA	NA	NA	NA
DRO (mg/kg)	–	–	100	–	**106** [C]	<6.23	**406** [C]	87.5	**470** [C]	**3930** [C]	**723** [C]	NA	34.7	**195** [C]	**156** [C]	19.5	19.4	15.0	NA	NA	NA	NA

Notes:

DRO = Diesel Range Organics
GRO = Gasoline Range Organics
VOCs = Volatile Organic Compounds
PAHs = Polynuclear Aromatic Hydrocarbons
[1] Standards are for 1,2,4- and 1,3,5-Trimethylbenzene combined
[A] Parameter exceeds NR 720 Generic RCL for Non-Industrial Direct Contact.
[B] Parameter exceeds NR 720 Generic RCL for Industrial Direct Contact.
[C] Parameter exceeds NR 720 Generic RCL for Groundwater Pathway.
[D] Parameter exceeds NR 746 Table 1 Soil Screening Levels
[E] Generic RCL is established under NR 720 or NR 746
[F] Generic RCLs provided in *Soil Cleanup Levels for PAHs Interim Guidance*, WDNR RR-5 1997
– No Generic RCL established.
Generic RCLs not included in Wisconsin Administrative Code or Guidance are calculated from the US EPA Soil Screening Level Web Page and the default values contained in *Determining Residual Contaminant Levels using the EPA Soil Screening Level Web Site* WDNR PUB-RR-682 on May 12, 2006



LEGEND

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- EXISTING BUILDING
- B-3 STS SOIL BORING LOCATION
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- HA-4 STS HAND AUGER LOCATION
- MW-4 SIGMA MONITORING WELL LOCATION
- 64W97-18 SIGMA ABANDONED MONITORING WELL

0 50
1" = 50'

POST CLOSURE

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1020 North Broadway
Milwaukee, WI
414.225.5100

SOIL SAMPLE LOCATIONS AND RCL EXCEEDANCE SUMMARY
PROPOSED SENIOR APARTMENTS
FORMER MERCURY MARINE
OSHKOSH, WISCONSIN

Drawn:	ALB	06/11/2009
Checked:	SAP	4/28/2011
Approved:	HAC	
PROJECT NUMBER	60149623	
FIGURE NUMBER	3	

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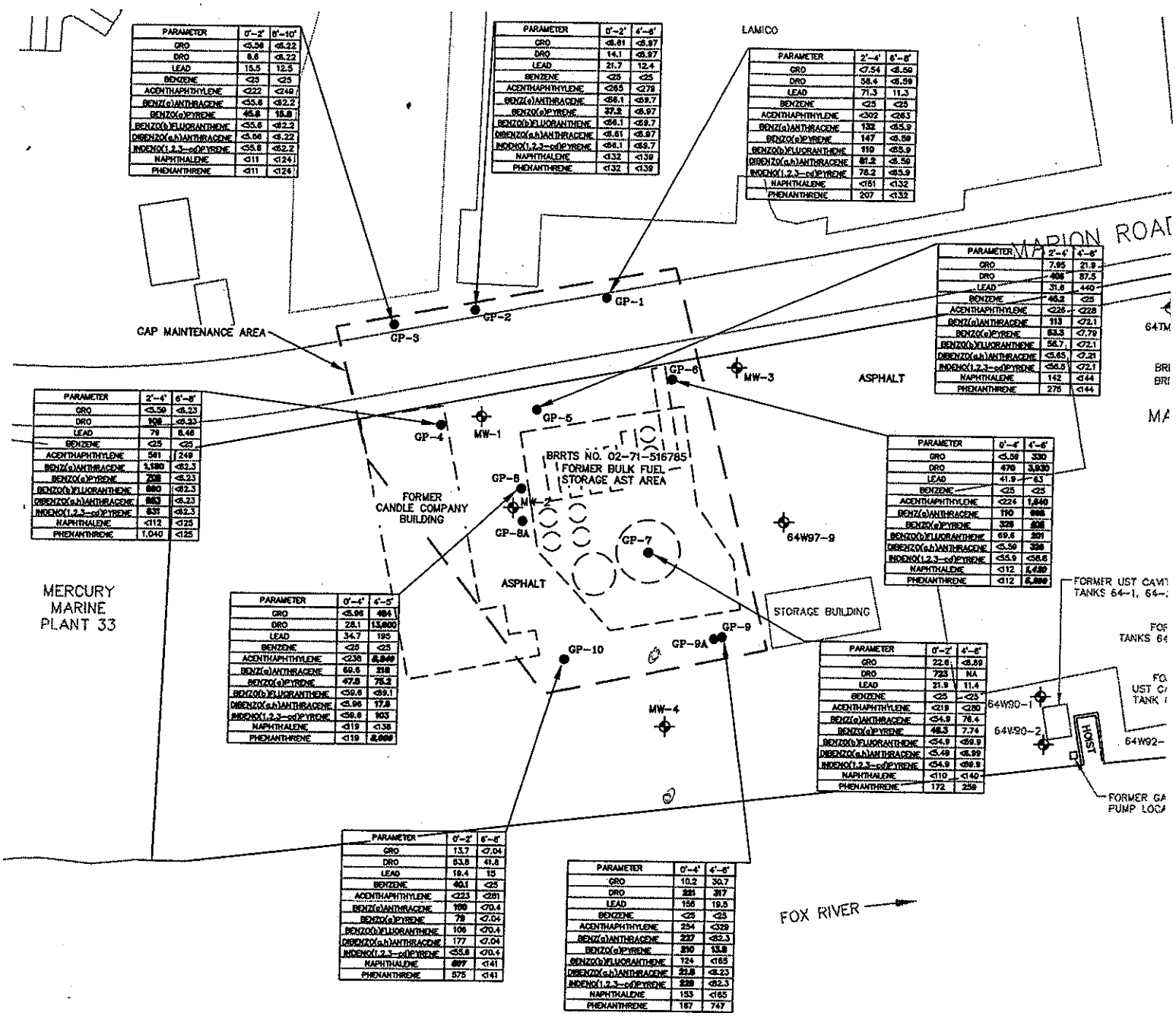


PARAMETER	0'-2'	6'-10'
GRO	<5.56	<5.22
DRO	8.6	<5.22
LEAD	15.5	12.5
BENZENE	<25	<25
ACENTHAPHTHYLENE	<222	<249
BENZ(a)ANTHRACENE	<55.6	<52.2
BENZO(a)PYRENE	46.8	18.8
BENZO(b)FLUORANTHENE	<55.6	<52.2
DIBENZO(a,h)ANTHRACENE	<5.56	<5.22
INDENO(1,2,3-cd)PYRENE	<55.6	<52.2
NAPHTHALENE	<111	<124
PHENANTHRENE	<111	<124

PARAMETER	0'-2'	4'-6'
GRO	<6.61	<5.97
DRO	14.1	<5.97
LEAD	21.7	12.4
BENZENE	<25	<25
ACENTHAPHTHYLENE	<265	<279
BENZ(a)ANTHRACENE	<66.1	<59.7
BENZO(a)PYRENE	37.2	<5.97
BENZO(b)FLUORANTHENE	<66.1	<59.7
DIBENZO(a,h)ANTHRACENE	<6.61	<5.97
INDENO(1,2,3-cd)PYRENE	<66.1	<59.7
NAPHTHALENE	<132	<139
PHENANTHRENE	<132	<139

PARAMETER	2'-4'	6'-8'
GRO	<7.54	<5.59
DRO	58.4	<5.59
LEAD	71.3	11.3
BENZENE	<25	<25
ACENTHAPHTHYLENE	<302	<263
BENZ(a)ANTHRACENE	132	<65.9
BENZO(a)PYRENE	147	<5.59
BENZO(b)FLUORANTHENE	110	<65.9
DIBENZO(a,h)ANTHRACENE	81.2	<5.59
INDENO(1,2,3-cd)PYRENE	78.2	<65.9
NAPHTHALENE	<151	<132
PHENANTHRENE	207	<132

PARAMETER	2'-4'	4'-6'
GRO	7.95	21.9
DRO	406	87.5
LEAD	31.8	440
BENZENE	46.2	<25
ACENTHAPHTHYLENE	<226	<228
BENZ(a)ANTHRACENE	113	<72.1
BENZO(a)PYRENE	63.3	<7.79
BENZO(b)FLUORANTHENE	58.7	<72.1
DIBENZO(a,h)ANTHRACENE	<5.65	<7.21
INDENO(1,2,3-cd)PYRENE	<56.5	<72.1
NAPHTHALENE	142	<144
PHENANTHRENE	275	<144

PARAMETER	2'-4'	6'-8'
GRO	<5.59	<5.23
DRO	108	<5.33
LEAD	79	8.46
BENZENE	<25	<25
ACENTHAPHTHYLENE	561	249
BENZ(a)ANTHRACENE	1,180	<52.3
BENZO(a)PYRENE	708	<5.23
BENZO(b)FLUORANTHENE	880	<52.3
DIBENZO(a,h)ANTHRACENE	863	<5.23
INDENO(1,2,3-cd)PYRENE	831	<52.3
NAPHTHALENE	<112	<125
PHENANTHRENE	1,040	<125

PARAMETER	0'-4'	4'-6'
GRO	<5.59	330
DRO	470	3,930
LEAD	41.9	63
BENZENE	<25	<25
ACENTHAPHTHYLENE	<224	1,640
BENZ(a)ANTHRACENE	110	698
BENZO(a)PYRENE	328	208
BENZO(b)FLUORANTHENE	69.6	201
DIBENZO(a,h)ANTHRACENE	<5.59	356
INDENO(1,2,3-cd)PYRENE	<55.9	<56.6
NAPHTHALENE	<112	1,430
PHENANTHRENE	<112	6,800

PARAMETER	0'-4'	4'-5'
GRO	<5.96	484
DRO	28.1	13,600
LEAD	34.7	195
BENZENE	<25	<25
ACENTHAPHTHYLENE	<238	8,840
BENZ(a)ANTHRACENE	69.6	218
BENZO(a)PYRENE	47.8	75.2
BENZO(b)FLUORANTHENE	<59.6	<59.1
DIBENZO(a,h)ANTHRACENE	<5.96	17.8
INDENO(1,2,3-cd)PYRENE	<59.6	103
NAPHTHALENE	<119	<138
PHENANTHRENE	<119	2,000

PARAMETER	0'-2'	4'-6'
GRO	22.6	<5.59
DRO	723	NA
LEAD	21.9	11.4
BENZENE	<25	<25
ACENTHAPHTHYLENE	<219	<280
BENZ(a)ANTHRACENE	<54.9	78.4
BENZO(a)PYRENE	48.3	7.74
BENZO(b)FLUORANTHENE	<54.9	<59.9
DIBENZO(a,h)ANTHRACENE	<5.49	<5.99
INDENO(1,2,3-cd)PYRENE	<54.9	<59.9
NAPHTHALENE	<110	<140
PHENANTHRENE	172	259

PARAMETER	0'-2'	6'-8'
GRO	13.7	<7.04
DRO	53.8	41.8
LEAD	19.4	15
BENZENE	40.1	<25
ACENTHAPHTHYLENE	<223	<281
BENZ(a)ANTHRACENE	100	<70.4
BENZO(a)PYRENE	79	<7.04
BENZO(b)FLUORANTHENE	106	<70.4
DIBENZO(a,h)ANTHRACENE	177	<7.04
INDENO(1,2,3-cd)PYRENE	<55.8	<70.4
NAPHTHALENE	897	<141
PHENANTHRENE	575	<141

PARAMETER	0'-4'	4'-6'
GRO	10.2	30.7
DRO	221	317
LEAD	156	19.5
BENZENE	<25	<25
ACENTHAPHTHYLENE	254	<329
BENZ(a)ANTHRACENE	227	<52.3
BENZO(a)PYRENE	210	13.8
BENZO(b)FLUORANTHENE	124	<165
DIBENZO(a,h)ANTHRACENE	21.8	<5.23
INDENO(1,2,3-cd)PYRENE	229	<52.3
NAPHTHALENE	153	<165
PHENANTHRENE	167	747

Fig. 3
Area of Soil Contamination

POST CLOSURE

LEGEND

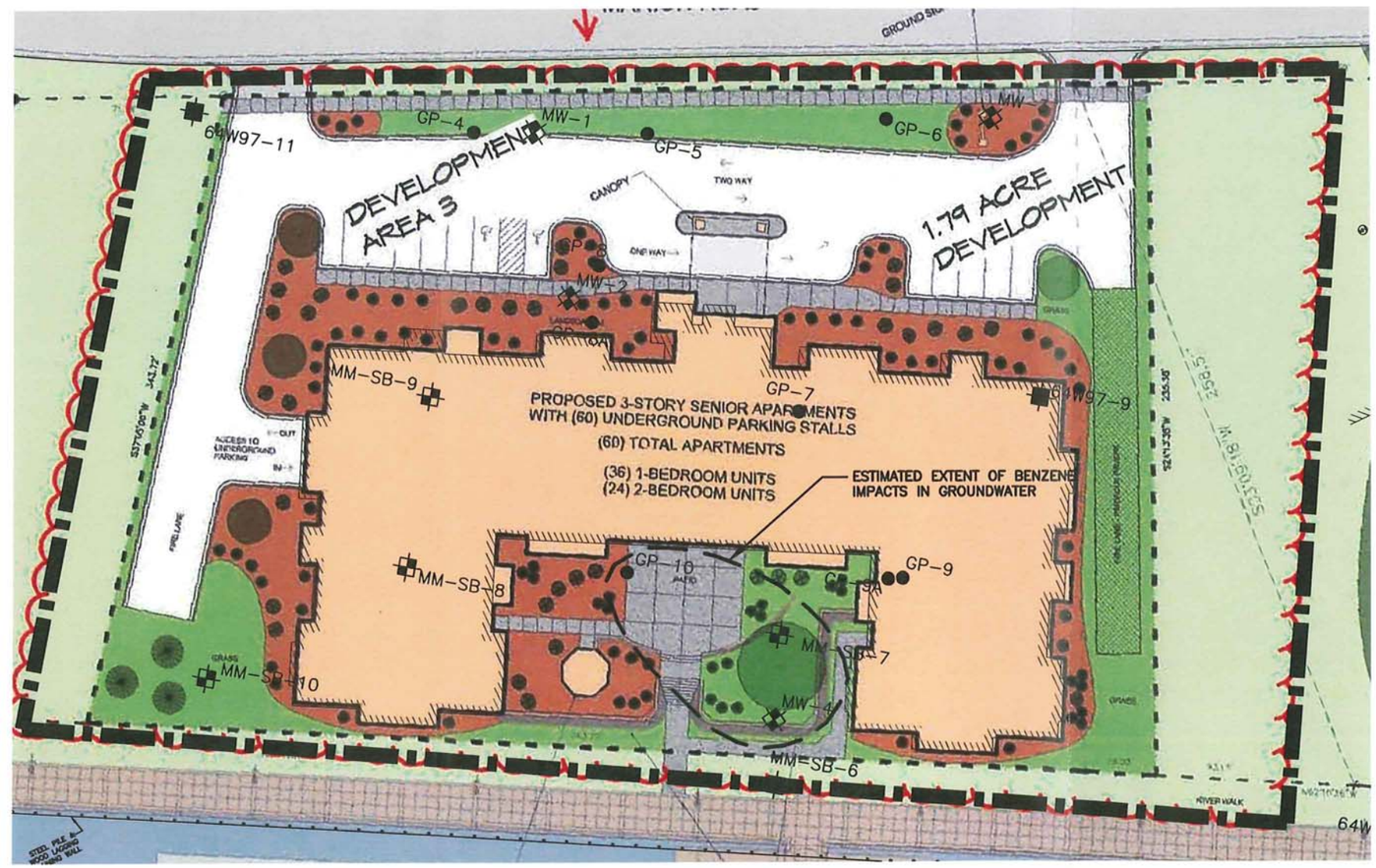
- SENIOR APARTMENTS REDEVELOPMENT BOUNDARY
- EXISTING BUILDING
- B-3 STS SOIL BORING LOCATION
- MMSB-4 STS MONITORING WELL LOCATION
- MW-3 STS ABANDONED MONITORING WELL
- HA-4 STS HAND AUGER LOCATION
- MW-4 SIGMA MONITORING WELL LOCATION
- 64W97-18 SIGMA ABANDONED MONITORING WELL

0 50

1" = 50'

		Metals (µg/L)		VOCs (µg/L)		
		Arsenic	Lead	Benzene	1,2-Dichloroethane	Vinyl Chloride
NR 140 Standards	ES	10	15	5.0	5.0	0.2
	PAL	1.0	1.5	0.5	0.5	0.02
MW-1	6/25/2004	NA	NA	<0.5	<0.5	<0.217
	8/26/2004	NA	<0.005	<0.5	<0.5	<0.217
	11/15/2004	NA	NA	<0.5	<0.5	<0.217
	5/9/2005	NA	ND	<0.34	<0.387	<0.306
	9/20/2005	NA	<0.005	<0.572	<0.587	<1.25
	11/30/2005	NA	<0.005	<0.572	<0.587	<1.25
	3/24/2006	NA	NA	<0.2	<0.5	<0.2
MW-2	6/25/2004	NA	NA	<0.5	<0.5	<0.217
	8/26/2004	NA	<0.005	<0.5	<0.5	<0.217
	11/15/2004	NA	NA	<0.5	<0.5	<0.217
	5/9/2005	NA	ND	<0.34	<0.387	<0.306
	9/20/2005	NA	<0.005	<0.572	<0.587	<1.25
	11/30/2005	NA	<0.005	<0.572	<0.587	<1.25
	3/24/2006	NA	NA	<0.2	<0.5	<0.2
MW-3	6/25/2004	NA	NA	<0.5	<0.5	<0.217
	8/26/2004	NA	<0.005	<0.5	<0.5	<0.217
	11/15/2004	NA	NA	NA	NA	NA
	5/9/2005	NA	ND	<0.34	<0.387	<0.306
	9/20/2005	NA	<0.005	<0.572	<0.587	<1.25
	11/30/2005	NA	<0.005	<0.572	<0.587	<1.25
	3/24/2006	NA	NA	<0.2	<0.5	<0.2
MW-4	6/25/2004	NA	NA	**56.9**	<0.5	<0.217
	8/26/2004	NA	<0.005	**71.3**	<0.5	<0.217
	11/15/2004	NA	NA	**62.1**	<0.5	<0.217
	5/9/2005	NA	ND	**88.4**	<0.387	<0.306
	9/20/2005	NA	<0.005	**76.9**	<0.587	<1.25
	11/30/2005	NA	<0.005	**89.2**	<0.587	<1.25
	3/24/2006	NA	NA	**56**	<0.5	<0.2
64W97-9	8/26/2004	NA	<0.005	<0.5	<0.5	<0.217
	11/15/2004	NA	NA	<0.5	<0.5	<0.217
	5/9/2005	NA	ND	<0.34	<0.387	<0.306
	9/20/2005	NA	<0.005	<0.572	<0.587	<1.25
	11/30/2005	NA	<0.005	<0.572	<0.587	<1.25
	3/24/2006	NA	NA	<0.2	<0.5	<0.2
MM-SB-6	6/18/2007	2.44	1.71	2.71	<0.20	<0.20
	8/27/2007	2.3	0.88	0.83	NA	NA
	12/20/2007	5.64	0.32	4.59	NA	NA
	6/10/2008	NA	NA	<0.20	<0.30	<0.20
MM-SB-7	6/18/2007	NA	NA	**28**	0.68	**0.9**
	8/27/2007	NA	NA	**32.5**	0.82	<0.20
	12/21/2007	NA	NA	**36.4**	1.03	<0.20
	6/10/2008	NA	NA	**24.9**	0.66	<0.20
MM-SB-8	6/18/2007	NA	NA	<0.20	<0.20	<0.20
MM-SB-9	6/18/2007	NA	NA	<0.20	<0.20	<0.20
MM-SB-10	6/18/2007	1.87	1.09	<0.20	<0.20	<0.20
	8/27/2007	0.9	NA	NA	NA	NA
	12/21/2007	<0.60	NA	NA	NA	NA

Notes:
5.0 - Exceeds NR 140 ES
0.5 - Exceeds NR 140 PAL
– = No NR 140 Standards
NA = Not Analyzed
ND = Not Detected
< = Less than laboratory detection limit
VOCs = Volatile Organic Compounds



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GROUNDWATER SAMPLE LOCATIONS AND ANALYTICAL RESULTS
PROPOSED SENIOR APARTMENTS
FORMER MERCURY MARINE
OSHKOSH, WISCONSIN

Drawn :	ALB	06/11/2009
Checked:	SAP	4/28/2011
Approved:	HAC	
PROJECT NUMBER	60149623	
FIGURE NUMBER	5	

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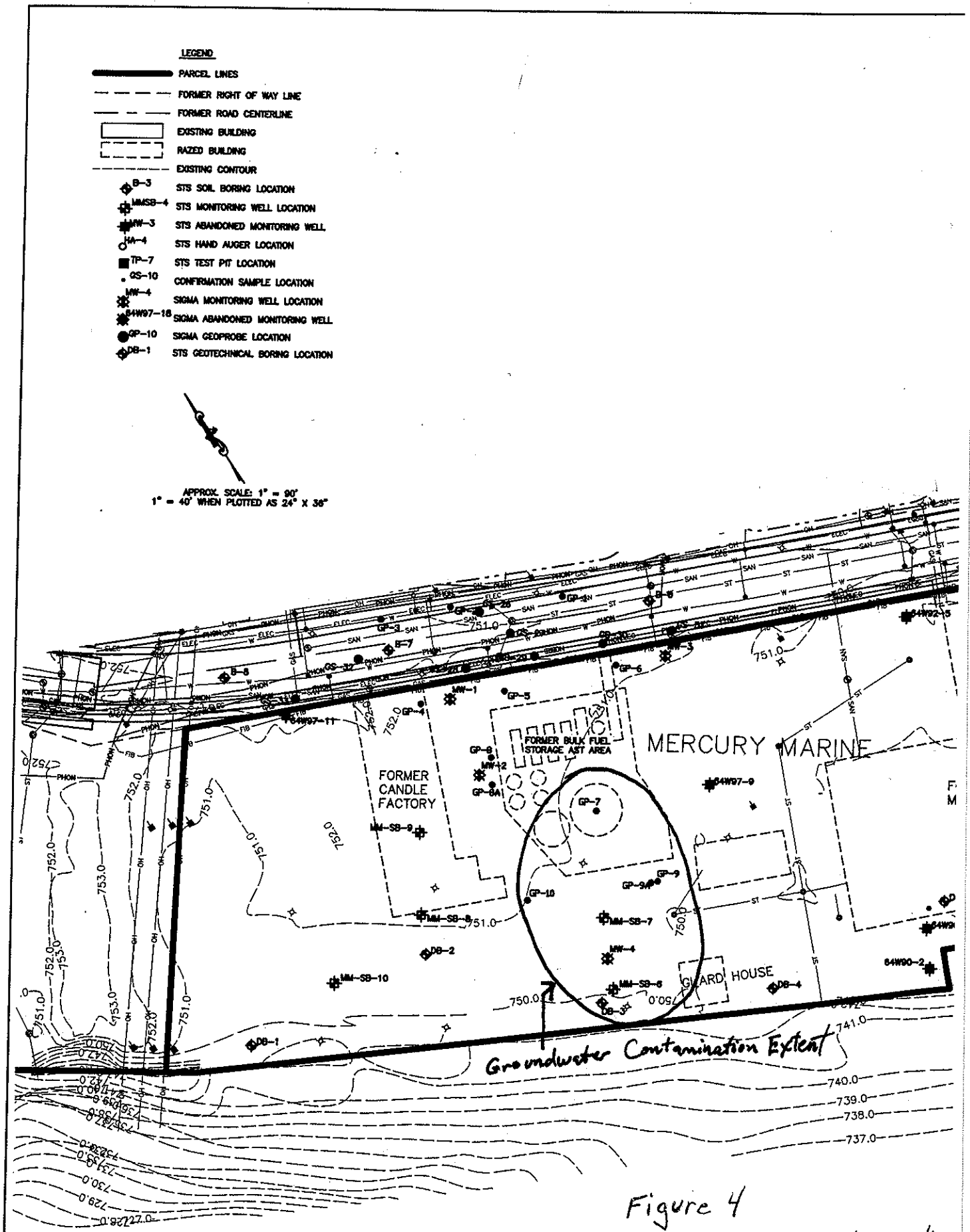
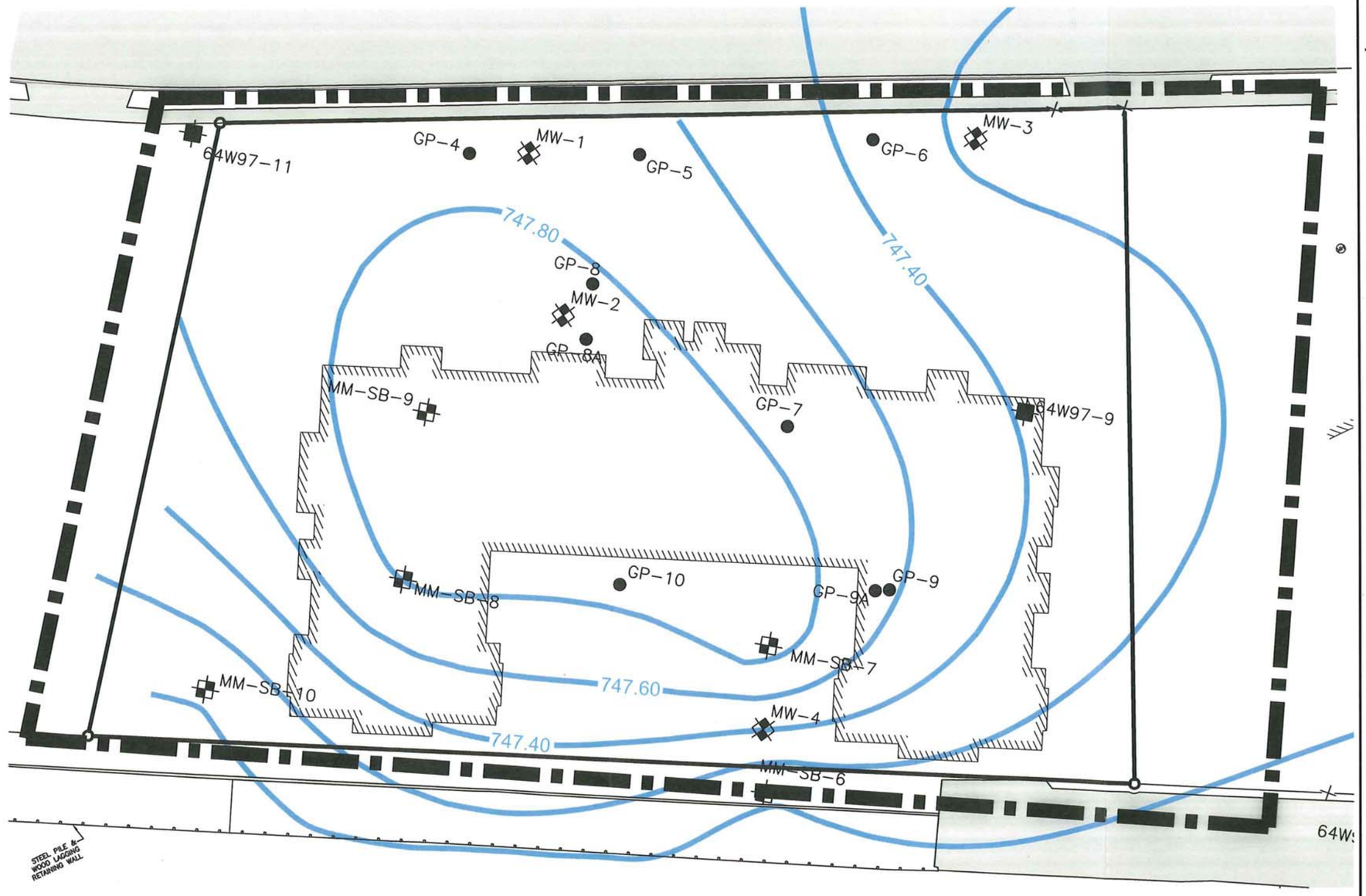


Figure 4
Extent of GW Contamination

POST CLOSURE

0 40
1" = 40'



LEGEND

	SENIOR APARTMENTS REDEVOLPMENT BOUNDARY
	EXISTING BUILDING
B-3	STS SOIL BORING LOCATION
MMSB-4	STS MONITORING WELL LOCATION
MW-3	STS ABANDONED MONITORING WELL
HA-4	STS HAND AUGER LOCATION
MW-4	SIGMA MONITORING WELL LOCATION
64W97-18	SIGMA ABANDONED MONITORING WELL

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GROUNDWATER FLOW (8/27/2007)
SENIOR APARTMENTS
FORMER MERCURY MARINE
OSHKOSH, WISCONSIN

Drawn :	ALB	06/11/2009
Checked:	SAP	4/28/2011
Approved:	HAC	
PROJECT NUMBER	60149623	
FIGURE NUMBER	6	

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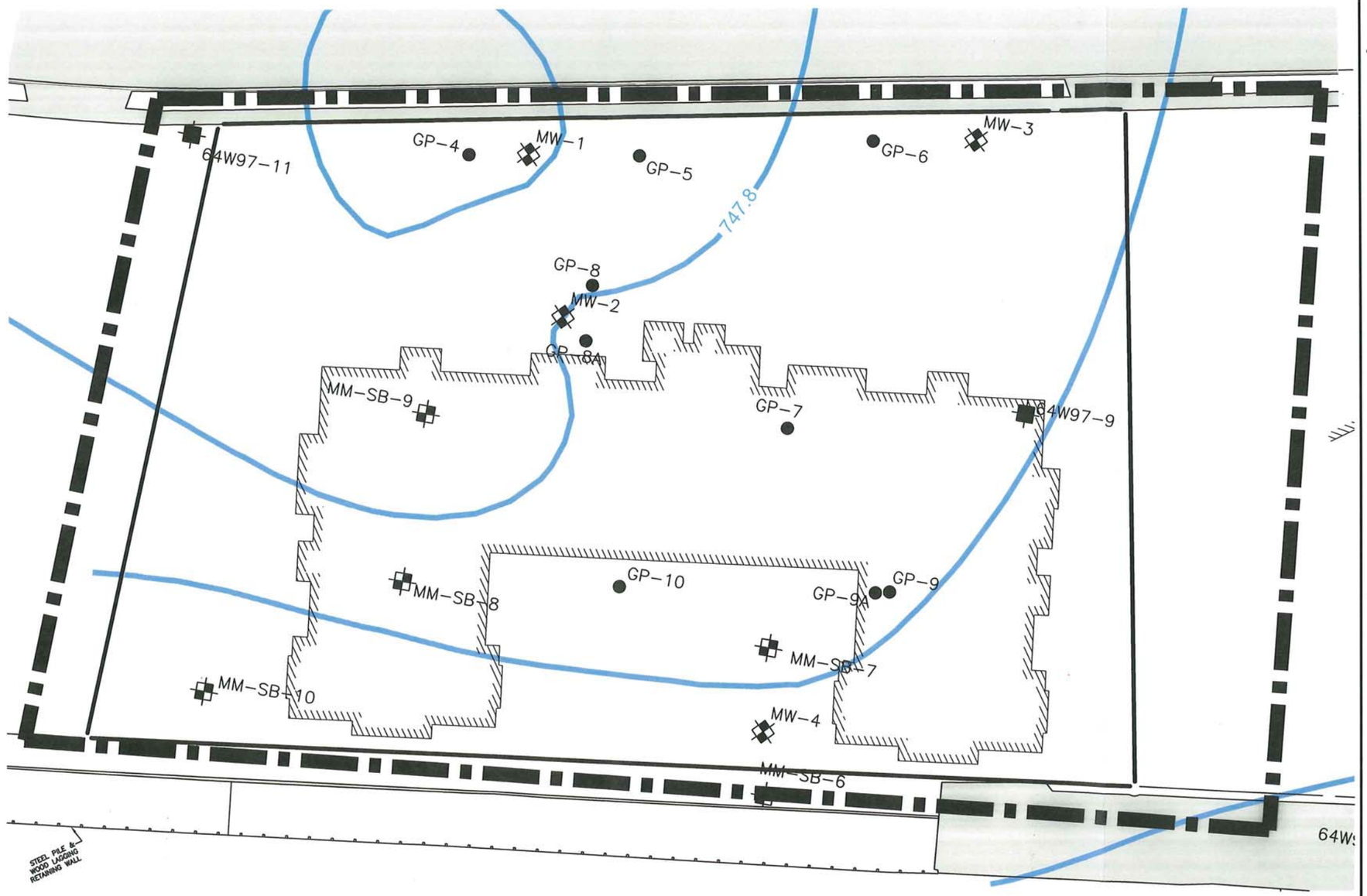
POST CLOSURE

0 40
1" = 40'



LEGEND

	SENIOR APARTMENTS REDEVOLPMENT BOUNDARY
	EXISTING BUILDING
B-3	STS SOIL BORING LOCATION
MMSB-4	STS MONITORING WELL LOCATION
MW-3	STS ABANDONED MONITORING WELL
HA-4	STS HAND AUGER LOCATION
MW-4	SIGMA MONITORING WELL LOCATION
64W97-18	SIGMA ABANDONED MONITORING WELL

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GROUNDWATER FLOW (6/10/2008)
SENIOR APARTMENTS
FORMER MERCURY MARINE
OSHKOSH, WISCONSIN

Drawn :	ALB	06/11/2009
Checked:	SAP	4/28/2011
Approved:	HAC	
PROJECT NUMBER	60149623	
FIGURE NUMBER	8	

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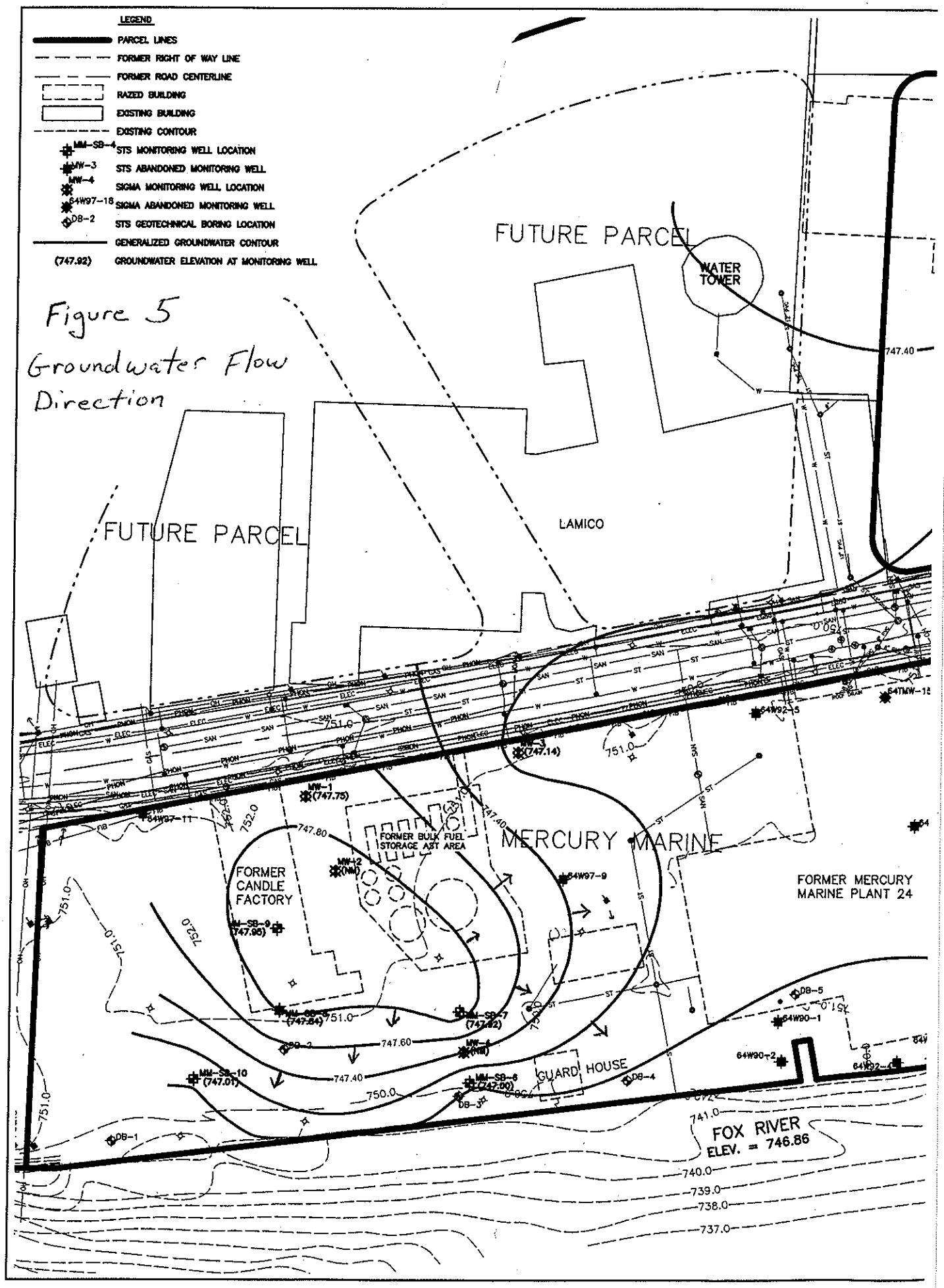
LEGEND
PARCEL LINES
FORMER RIGHT OF WAY LINE
FORMER ROAD CENTERLINE
RAZED BUILDING
EXISTING BUILDING
EXISTING CONTOUR
MW-SB-4 STS MONITORING WELL LOCATION
MW-3 STS ABANDONED MONITORING WELL
MW-4 SIGMA MONITORING WELL LOCATION
64W97-18 SIGMA ABANDONED MONITORING WELL
DB-2 STS GEOTECHNICAL BORING LOCATION
GENERALIZED GROUNDWATER CONTOUR
(747.92) GROUNDWATER ELEVATION AT MONITORING WELL
Figure 5
Groundwater Flow Direction
FUTURE PARCEL
WATER TOWER
FUTURE PARCEL
LAMICO
MERCURY MARINE
FORMER MERCURY MARINE PLANT 24
FORMER CANDLE FACTORY
FORMER BULK FUEL STORAGE AST AREA
GUARD HOUSE
FOX RIVER ELEV. = 746.86
MW-1 (747.75)
MW-3 (747.14)
MW-2 (NM)
MW-4 (NM)
MW-SB-9 (747.96)
MW-SB-5 (747.84)
MW-SB-7 (747.82)
MW-SB-10 (747.01)
MW-SB-6 (747.00)
64W97-11
64W97-9
64W92-5
64W90-1
64W90-2
DB-1
DB-2
DB-3
DB-4
DB-5
747.80
747.60
747.40
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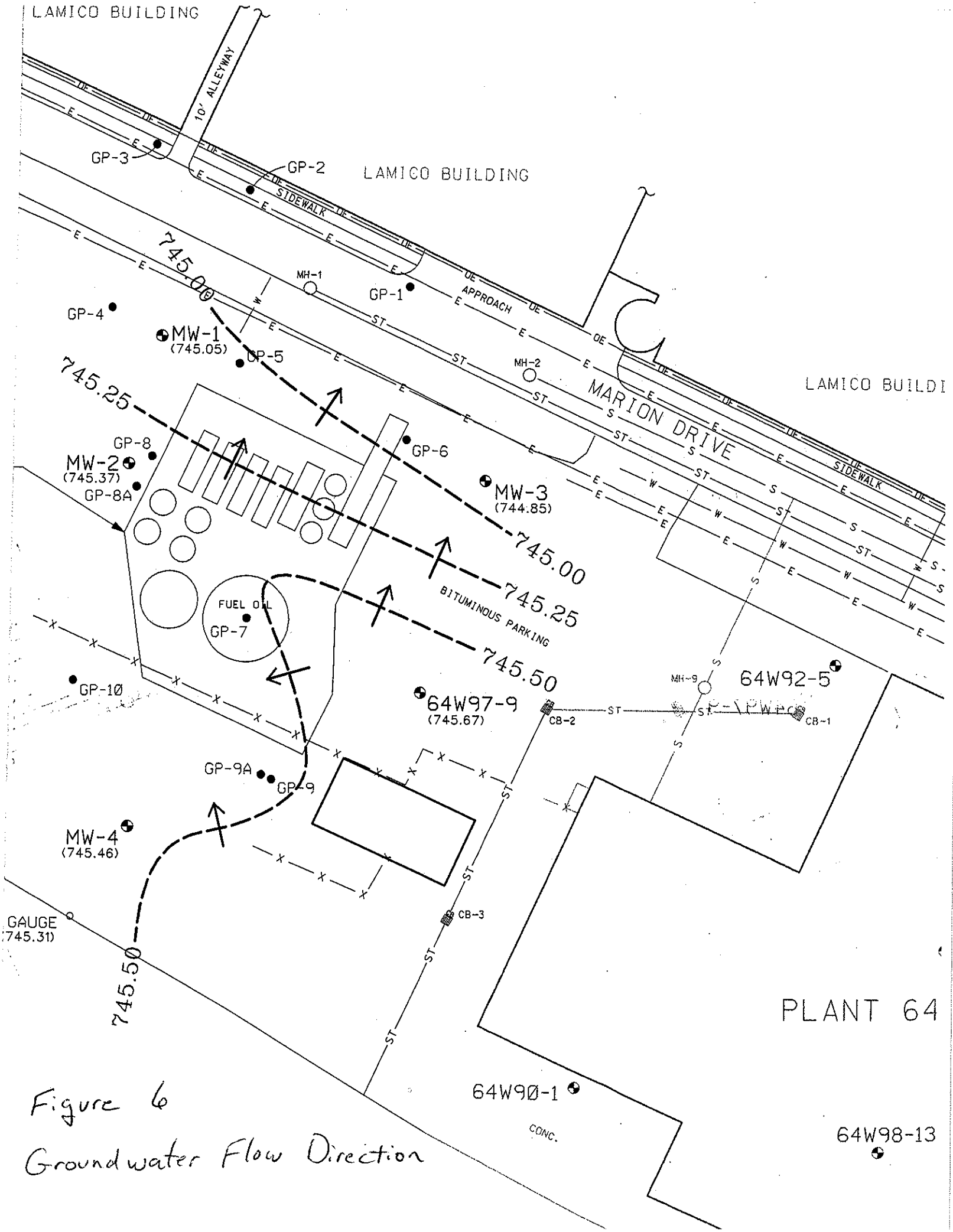

Figure 6

Groundwater Flow Direction

TABLE 1
SOIL ANALYTICAL RESULTS
PROPOSED SENIOR APARTMENTS
FORMER MERCURY MARINE
OSHKOSH, WISCONSIN

Parameters	Generic RCLs			NR 746 Soil Screening Levels	GP-4		GP-5		GP-6		GP-7		GP-8		GP-9		GP-10		MM-SB-6	MM-SB-9	MM-SB-10	
	Direct Contact Pathway		Groundwater Pathway		2-4' Fill 3/18/04	6-8' Silt/Clay 3/18/04	0-2' Fill 3/18/04	4-6' Silt 3/18/04	0-4' Fill 3/18/04	4-6' Silt/Clay 3/18/04	0-2' Fill 3/18/04	4-6' Fill/Silt/Clay 3/18/04	0-4' Fill 3/18/04	4-5' Silt 3/18/04	0-4' Fill 3/18/04	4-6' Fill/Clay 3/18/04	0-2' Fill 3/18/04	6-8' Clay 3/18/04	2.5-4.5' Fill 5/23/07	5-7' Clay 5/23/07	2.5-4.5' Fill 5/23/2007	10-12' Clay 5/23/2007
	Non-Industrial	Industrial																				
Metals (mg/kg)																						
Arsenic	0.039 [E]	1.6 [E]	0.58	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	50 [E]	500 [E]	--	--	**79.0** [A]	8.46	31.6	**440** [A]	41.9	**63.0** [A]	21.9	11.4	34.7	**195** [A]	**156** [A]	19.5	19.4	15.0	NA	NA	NA	NA
VOCs (µg/kg)																						
Benzene	1,100 [E]	52,000	5.5 [E]	8,500	ND	ND	**45.2** [C]	ND	ND	ND	ND	ND	ND	ND	ND	ND	**40.1** [C]	ND	<10	<10	<10	<10
Bromobenzene	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.4	453	148	62.3
Bromochloromethane	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<11	<11	<11	<11
Bromodichloromethane	1,030	46,200	0.24	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<10	<10	<10	<10
Bromoform	8,090	362,000	2.0	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<10	<10	<10	<10
Bromomethane	21,900	1,430,000	4.0	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<17	**87.1** [C]	<17	**27.1** [C]
sec-Butylbenzene	--	--	--	--	ND	ND	ND	ND	ND	442	ND	ND	ND	801	ND	69.9	ND	ND	<19	<19	<19	<19
tert-Butylbenzene	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<16	<16	<16	<16
Butylbenzene	--	--	--	--	ND	ND	ND	ND	ND	980	28.5	ND	ND	1,260	ND	70.7	39.0	ND	<22	<22	<22	<22
Carbon tetrachloride	491	22,000	5.0	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<8.0	<8.0	<8.0	<8.0
Chloroform	10,500	469,000	2.0	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<7.0	<7.0	<7.0	<7.0
Chlorobenzene	313,000	20,400,000	150	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<11	<11	<11	<11
Chloroethane	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<24	<24	98.5	83.7
Chloromethane	4,910	220,000	1.0	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<21	<21	<21	<21
2-Chlorotoluene	313,000	20,400,000	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<14	<14	<14	<14
4-Chlorotoluene	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<15	<15	<15	<15
1,2-Dibromo-3-chloropropane	46	2,040	0.1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<31	<31	<31	<31
1,2-Dibromoethane	31.9	1,430	0.033	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<10	<10	<10	<10
Dibromomethane	156,000	10,200,000	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<7.0	<7.0	<7.0	<7.0
1,3-Dichlorobenzene	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<12	<12	<12	<12
1,4-Dichlorobenzene	2,660	119,000	110	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<13	<13	<13	<13
1,2-Dichloroethane	702 [E]	31,400	4.9 [E]	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<9.0	<9.0	<9.0	<9.0
1,2-Dichlorobenzene	1,410,000	92,000,000	1,800	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<15	<15	<15	<15
1,1-Dichloroethene	782,000	51,100,000	10	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<14	<14	<14	<14
cis-1,2-Dichloroethene	156,000	10,200,000	55	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<14	<14	<14	<14
Dichlorodifluoromethane	3,130,000	204,000,000	21,918	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<14	<14	<14	<14
trans-1,2-Dichloroethene	313,000	20,400,000	98	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<19	<19	<19	<19
1,2-Dichloropropane	939	42,100	1.9	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<14	<14	<14	<14
1,1-Dichloroethane	3,130,000	204,000,000	349	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<11	<11	<11	<11
1,3-Dichloropropane	313,000	20,400,000	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<9.0	<9.0	<9.0	<9.0
2,2-Dichloropropane	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<16	<16	<16	<16
1,1-Dichloropropene	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<25	<25	<25	<25
cis-1,3-Dichloropropene	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<8.0	<8.0	<8.0	<8.0
trans-1,3-Dichloropropene	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<9.0	<9.0	<9.0	<9.0
Ethylbenzene	1,560,000	102,000,000	2,900 [E]	4,600	ND	ND	63.9	ND	38.0	ND	ND	ND	ND	132	ND	ND	953	ND	<13	<13	<13	<13
Hexachlorobutadiene	819	36,700	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<11	<11	<11	<11
Isopropylbenzene	--	--	--	--	ND	ND	ND	ND	207	2,270	203	ND	ND	399	227	316	227	ND	<13	<13	<13	<13
Isopropyltoluene	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	874
Methylene chloride	8,520	382,000	1.6	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<11	<11	<11	<11
Methyl-tert-butyl-ether	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<22	<22	<22	<22
Naphthalene	60,000 [E]	4,000,000 [E]	400 [E]	2,700	111	ND	216	ND	273	**2,350** [C]	133	ND	47.7	ND	215	53.5	**543** [C]	ND	234	<7.0	77.6	<7.0
Propylbenzene	--	--	--	--	ND	ND	ND	ND	ND	333	ND	ND	ND	831	ND	51.8	50.7	ND	<12	<12	<12	<12
Styrene	3,130,000	204,000,000	370	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<11	<11	<11	<11
1,1,2,2-Tetrachloroethane	319	14,300	0.09	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<14	<14	<14	<14
1,1,1,2-Tetrachloroethane	2,460	110,000	157	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<16	<16	<16	<16
Tetrachloroethene	1,230	55,000	4.1	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<12	<12	<12	<12
Toluene	1,250,000	81,800,000	1,500 [E]	38,000	173	ND	272	ND	235	ND	142	ND	212	ND	217	ND	408	ND	53.3	<12	62.1	<12
1,2,3-Trichlorobenzene	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<23	<23	<23	<23
1,2,4-Trichlorobenzene	156,000	10,200,000	540	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<24	<24	<24	<24
1,1,1-Trichloroethane	3,130,000	204,000,000	280	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<8.0	<8.0	<8.0	<8.0
1,1,2-Trichloroethane	1,120	50,200	1.9	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<9.0	<9.0	<9.0	<9.0
1,2,4-Trimethylbenzene[1]	782,000	51,100,000	7573	--	50.9	ND	97.8	ND	96.1	ND	33.5	ND	ND	123	78.1	ND	239	ND	<15	<15	32.9	26.1
Trichloroethene	160	7,150	3.7	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<8.0	<8.0	<8.0	<8.0
1,2,3-Trichloropropane	9.12	409	0.0076	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<10	<10	<10	<10
1,3,5-Trimethylbenzene[1]	782,000	51,100,000	3520	--	ND	ND	30.0	ND	41.9	ND	ND	ND	ND	ND	32.2	ND	83.6	ND	<14	<14	<14	<14
Vinyl chloride	42.6	1,910	0.13	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<8.0	<8.0	<8.0	<8.0
Xylenes, total	3,130,000	204,000,000	4,100 [E]	42,000	162	ND	331	ND	246	ND	34.0	ND	ND	94.4	196	ND	737	ND	39	<34	88.4	<34
PAHs (µg/kg) [F]																						
Acenaphthene	900,000	60,000,000	38,000	--	1,830	ND	429	ND	ND	830	ND	ND	ND	1,240	568	349	845	ND	<58.6	<6.4	<5.4	<6.4
Acenaphthylene	18,000	360,000	700	--	561	ND	ND	ND	ND	**1,640** [C]	ND	ND	ND	**8,340** [C]	254	ND	ND	ND	<82.3	<9.0	<7.6	<8.9
Anthracene	5,000,000	300,000,000	3,000,000	--	399	ND	ND	ND	ND	2,460	ND	200	ND	819	ND	269	ND	ND	<39.9	<4.4	25	<4.3
Benzo(a)anthracene	88	3,900	17,000	--	**1,180** [A]	ND	**113** [A]	ND	**110** [A]	**698** [A]	ND	76.4	69.6	**218** [A]	**227** [A]	ND	**150** [A]	ND	<51.1	<5.6	40.1	<5.6
Benzo(a)pyrene	8.8	390	48,000	--	**706** [AB]	ND	**53.3** [A]	ND	**326** [A]	**406** [AB]	**48.3** [A]	7.74	**47.8** [A]	**75.2** [A]	**210** [A]	**13.8** [A]	**79.0** [A]	ND	**58** [A]	<3.2	**66.2** [A]	<3.1
Benzo(b)fluoranthene	88	3,900	360,000	--	**890** [A]	ND	58.7	ND	70	**201** [A]	ND	ND	ND	ND	**204** [A]	ND	**106** [A]	ND	**88.5** [A]	<2.9	**90.8** [A]	<2.8
Benzo(ghi)perylene	1,800	39,000	6,800,000	--	545	ND	ND	ND	176	304	ND	ND	ND	ND	186	ND	ND	ND	<49.9	<5.5	52.6	<5.4
Benzo(k)fluoranthene	880	39,000	870,000	--	496	ND	ND	ND	178	657	ND	ND	ND	ND	124	ND	ND	ND	49.8	<4.0	78	<3.9
Chrysene	8,800	390,000	37,000	--	977	ND	ND	ND	ND	6,720	ND	**8,910** [A]	ND	ND	168	ND	122	ND	176	<3.2	133	<3.1
Dibenzo(a,h,)anthracene	8.8	390	38,000	--	**683** [AB]	ND	ND	ND	ND	**326** [A]	ND	ND	ND	**17.6** [A]	**21.8** [A]	ND	**177** [A]	ND	<33.7	<3.7	<3.1	<3.7
Fluroanthene	600,000	40,000,000	500,000	--	1,980	ND	275	ND	ND	7,010	234	373	125	4,130	253	1,140	727	ND	<32.4	<3.6	201	<3.5
Fluorene	600,000	40,000,000	100,000	--	ND	ND	ND	ND	ND	2,540	ND	301	ND	4,250	ND	413	ND	ND	<41.1	<4.5	13.8	<4.5
Indeno(1,2,3-cd)pyrene	88	3,900	680,000	--	**631** [A]	ND	ND	ND	ND	ND	ND	ND	ND	**103** [A]	**229** [A]	ND	ND	ND	46.2	<3.0	56.8	<3.0
1-Methylnaphthalene	1,100,000	70,000,000	23,000	--	453	ND	590	173	203	16,200	463	990	153	11,700	401	1,240	2,360	ND	106	<5.1	29.4	<5.0
2-Methylnaphthalene	600,000	40,000,000	20,000	--	1,600	ND	716	219	292	12,000	414	1,170	ND	4,570	594	ND	1,860	ND	117	<5.6	39.5	<5.6
Naphthalene	20,000	110,000	400	--	ND	ND	142	ND	ND	**1,420** [C]	ND	ND	ND	ND	153	ND	**507** [C]	ND	68.7	<6.3	<5.3	<6.2
Phenanthrene	18,000	390,000	1,800	--	1,040	ND	275	ND	ND	**5,290** [C]	172	259	ND	**3,000** [C]	167	747	575	ND	<51.1	<5.6	167	<5.6
Pyrene	500,000	30,000,000	8,700,000	--	1,270	ND	746	ND	ND	2,260	ND	ND	ND	840	186	361	387	ND	<35.2	<3.9	12.8	<3.8
GRO (mg/kg)	--	--	100	--	<5.59	<6.23	7.95	21.9	<5.59	**330** [C]	22.6	<6.99	<5.96	**484** [C]	10.2	30.7	13.7	<7.04	NA	NA	NA	NA
DRO (mg/kg)	--	--	100	--	**106** [C]	<6.23	**406** [C]	87.5	**470** [C]	**3930** [C]	**723** [C]	NA	34.7	**195** [C]	**156** [C]	19.5	19.4	15.0	NA	NA	NA	NA

Notes:

DRO = Diesel Range Organics
GRO = Gasoline Range Organics
VOCs = Volatile Organic Compounds
PAHs = Polynuclear Aromatic Hydrocarbons
[1] Standards are for 1,2,4- and 1,3,5-Trimethylbenzene combined.
[A] Parameter exceeds NR 720 Generic RCL for Non-Industrial Direct Contact.
[B] Parameter exceeds NR 720 Generic RCL for Industrial Direct Contact.
[C] Parameter exceeds NR 720 Generic RCL for Groundwater Pathway.
[D] Parameter exceeds NR 746 Table 1 Soil Screening Levels
[E] Generic RCL is established under NR 720 or NR 746
[F] Generic RCLs provided in *Soil Cleanup Levels for PAHs Interim Guidance*, WDNR RR-5 1997
-- No Generic RCL established.
Generic RCLs not included in Wisconsin Administrative Code or Guidance are calculated from the US EPA Soil Screening Level Web Page and the default values contained in *Determining Residual Contaminant Levels using the EPA Soil Screening Level Web Site* WDNR PUB-RR-682 on May 12, 2006

POST CLOSURE

Project Reference #8494

Monitoring Well ID		MW-1							MW-2							MW-3						
Date	Units	06/25/2004	08/26/2004	11/15/2004	05/09/2005	09/20/2005	11/30/2005	03/24/2006	06/25/2004	08/26/2004	11/15/2004	05/09/2005	09/20/2005	11/30/2005	03/24/2006	06/25/2004	08/26/2004	11/15/2004	05/09/2005	09/20/2005	11/30/2005	03/24/2006
Lead	mgL	NA	<0.005	NA	ND	<0.005	<0.005	NA	NA	<0.005	NA	ND	<0.005	<0.005	NA	NA	<0.005	NA	ND	<0.005	<0.005	NA
Volatile Organic Compounds																						
Benzene	µg/l	<0.5	<0.5	<0.5	<0.34	<0.572	<0.572	<0.2	<0.5	<0.5	<0.5	<0.34	<0.572	<0.572	<0.2	<0.5	<0.5	NA	<0.34	<0.572	<0.572	<0.2
n-Butylbenzene	µg/l	ND	ND	ND	ND	<1.39	<1.39	<0.2	ND	ND	ND	ND	1.74	1.42	0.66[J]	ND	ND	ND	ND	<1.39	<1.39	<0.2
sec-Butylbenzene	µg/l	ND	ND	ND	ND	<0.921	<0.921	<0.25	ND	ND	ND	ND	1.59	1.55	0.92	ND	ND	ND	ND	<0.921	<0.921	<0.25
1,1-Dichloroethane	µg/l	<5.0	<5.0	<5.0	<5.0	<0.598	<0.598	<0.5	<5.0	<5.0	<5.0	<5.0	<0.598	<0.598	<0.5	<5.0	<5.0	NA	<5.0	<0.598	<0.598	<0.5
1,2-Dichloroethane	µg/l	<0.5	<0.5	<0.5	<0.387	<0.587	<0.587	<0.5	<0.5	<0.5	<0.5	<0.387	<0.587	<0.587	<0.5	<0.5	<0.5	NA	<0.387	<0.587	<0.587	<0.5
1,1-Dichloroethene	µg/l	<0.5	<0.5	<0.5	<0.451	<0.639	<0.639	<0.5	<0.5	<0.5	<0.5	<0.451	<0.639	<0.639	<0.5	<0.5	<0.5	NA	<0.451	<0.639	<0.639	<0.5
cis-1,2-Dichloroethene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.795	<0.795	<0.5	<5.0	<5.0	<5.0	<5.0	<0.795	<0.795	<0.5	<5.0	<5.0	NA	<5.0	<0.795	<0.795	<0.5
trans-1,2,-Dichloroethene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.573	<0.573	<0.5	<5.0	<5.0	<5.0	<5.0	<0.573	<0.573	<0.5	<5.0	<5.0	NA	<5.0	<0.573	<0.573	<0.5
Ethylbenzene	µg/l	<10	<5.0	<5.0	<5.0	<0.506	<0.506	<0.5	<10	<5.0	<5.0	<5.0	<0.506	<0.506	<0.5	<10	<5.0	NA	<5.0	<0.506	<0.506	<0.5
Isopropylbenzene	µg/l	ND	ND	ND	ND	<0.562	<0.562	<0.2	ND	ND	ND	ND	2.63	<0.562	2.9	ND	ND	ND	ND	<0.562	<0.562	<0.2
Methyl tert-butyl ether	µg/l	<0.29	<0.29	<0.29	<0.405	<0.668	<0.668	<0.5	<0.29	<0.29	<0.29	<0.405	<0.668	<0.668	<0.5	<0.29	<0.29	NA	<0.405	<0.668	<0.668	<0.5
Methylene chloride	µg/l	NA	NA	NA	**4.47**	<1.46	**12**	<1.0	NA	NA	NA	**3.79**	<1.46	**10.5**	<1.0	NA	NA	NA	**2.94**	<1.46	**11.5**	<1.0
Naphthalene	µg/l	<8.0	<8.0	<8.0	<8.0	<0.535	<0.535	<0.25	<8.0	<8.0	<8.0	<8.0	<0.535	<0.535	0.26[J]	<8.0	<8.0	NA	<8.0	<0.535	<0.535	<0.25
n-Propylbenzene	µg/l	ND	ND	ND	ND	<0.765	<0.765	<0.5	ND	ND	ND	ND	3.02	2.61	3.0	ND	ND	ND	ND	<0.765	<0.765	<0.5
Tetrachloroethane	µg/l	<0.5	<0.5	<0.5	<0.295	<0.63	<0.63	<0.5	<0.5	<0.5	<0.5	<0.295	<0.63	<0.63	<0.5	<0.5	<0.5	NA	<0.295	<0.63	<0.63	<0.5
Toluene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.567	<0.567	<0.2	<5.0	<5.0	<5.0	<5.0	<0.567	<0.567	<0.2	<5.0	<5.0	NA	<5.0	<0.567	<0.567	<0.2
Trichloroethene	µg/l	<0.5	<0.5	<5.0	<0.495	<0.734	<0.734	<0.2	<0.5	<0.5	<0.5	<0.495	<0.734	<0.734	<0.2	<0.5	<0.5	NA	<0.495	<0.734	<0.734	<0.2
1,2,4-Trimethylbenzene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.803	<0.803	<0.2	<5.0	<5.0	<5.0	<5.0	<0.803	<0.803	<0.2	<5.0	<5.0	NA	<5.0	<0.803	<0.803	<0.2
1,3,5-Trimethylbenzene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.628	<0.628	<0.2	<5.0	<5.0	<5.0	<5.0	<0.628	<0.628	<0.2	<5.0	<5.0	NA	<5.0	<0.628	<0.628	<0.2
Total Trimethylbenzene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.803	<0.803	<0.2	<5.0	<5.0	<5.0	<5.0	<0.803	<0.803	<0.2	<5.0	<5.0	NA	<5.0	<0.803	<0.803	<0.2
Vinyl Chloride	µg/l	<0.217	<0.217	<0.217[G28]	<0.306	<1.25	<1.25	<0.2	<0.217	<0.217	<0.217[G28]	<0.306	<1.25	<1.25	<0.2	<0.217	<0.217	NA	<0.306	<1.25	<1.25	<0.2
Total Xylenes	µg/l	<5.0	<5.0	<5.0	<5.0	<1.43	<1.43	<0.5	<5.0	<5.0	<5.0	<5.0	<1.43	<1.43	<0.5	<5.0	<5.0	NA	<5.0	<1.43	<1.43	<0.5
Polynuclear Aromatic Hydrocarbons																						
Acenaphthene	µg/l	<5.0	<5.0	<5.0	NA	NA	0.0228	<0.33	<5.0	<5.0	<5.0	NA	NA	1.27	0.49[J]	<5.0	<5.0	NA	NA	NA	0.0623	<0.34
Acenaphthylene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.7	<5.0	18.7	19.9	NA	NA	26.3	<0.71	<5.0	<5.0	NA	NA	NA	5.15	<0.7
Anthracene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.038	<5.0	<5.0	<5.0	NA	NA	0.0752	<0.039	<5.0	<5.0	NA	NA	NA	0.0948	<0.039
Benzo(a)anthracene	µg/l	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.044	<0.1	<0.1	<0.1	NA	NA	0.0307	<0.045	<0.1	<0.1	NA	NA	NA	0.0177	<0.045
Benzo(b)fluoranthene	µg/l	<0.02	<0.02	<0.02	NA	NA	<0.02	<0.099	<0.02	<0.02	<0.02	NA	NA	<0.02	<0.1	<0.02	<0.02	NA	NA	NA	<0.02	<0.1
Benzo(k)fluoranthene	µg/l	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.049	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.051	<0.1	<0.1	NA	NA	NA	<0.1	<0.05
Benzo(a)pyrene	µg/l	<0.02	<0.02	<0.02	NA	NA	<0.02	<0.032	<0.02	<0.02	<0.02	NA	NA	<0.02	<0.033	<0.02	<0.02	NA	NA	NA	<0.02	<0.033
Benzo(ghi)perylene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.12	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.12	<5.0	<5.0	NA	NA	NA	<5.0	<0.12
Chrysene	µg/l	<0.02	<0.02	<0.02	NA	NA	<0.02	<0.041	<0.02	<0.02	<0.02	NA	NA	0.0643	<0.042	<0.02	<0.02	NA	NA	NA	0.0398	<0.042
Dibenzo(a,h)anthracene	µg/l	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.13	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.13	<0.1	<0.1	NA	NA	NA	<0.1	<0.13
Fluoranthene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.082	<5.0	<5.0	<5.0	NA	NA	0.832	<0.084	<5.0	<5.0	NA	NA	NA	<5.0	<0.083
Fluorene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.063	<5.0	<5.0	<5.0	NA	NA	2.56	1.9	<5.0	<5.0	NA	NA	NA	<5.0	<0.063
Indeno(1,2,3-cd)pyrene	µg/l	<0.2	<0.2	<0.2	NA	NA	<0.2	<0.063	<0.2	<0.2	<0.2	NA	NA	<0.2	<0.064	<0.2	<0.2	NA	NA	NA	<0.2	<0.063
1-Methylnaphthalene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.32	<5.0	24.8	24.2	NA	NA	17.3	20	<5.0	6.7	NA	NA	NA	<5.0	<0.33
2-Methylnaphthalene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.31	<5.0	6.37	17.8	NA	NA	7.88	15	<5.0	<5.0	NA	NA	NA	1.07	<0.32
Naphthalene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.4	<5.0	<5.0	<5.0	NA	NA	0.759	<0.41	<5.0	<5.0	NA	NA	NA	1.07	<0.41
Phenanthrene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.03	<5.0	<5.0	<5.0	NA	NA	0.195	<0.031	<5.0	<5.0	NA	NA	NA	0.0819	<0.031
Pyrene	µg/l	<5.0	<5.0	<5.0	NA	NA	0.169	<0.044	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.045	<5.0	<5.0	NA	NA	NA	<5.0	<0.045
Natural Attenuation Parameters																						
Nitrate/Nitrite	mg/l	<0.05	<0.05	0.123	0.102	<0.05	0.016	NA	<0.05	<0.05	0.149	0.085	0.061	<0.05	NA	<0.095	<0.05	NA	0.205	0.066	<0.05	NA
Sulfate	mg/l	44.4	<10	32.3	ND	54.6	47.1	NA	20.5	25.1	<10	ND	<10	4.71	NA	29.4	<10	NA	43.2	<10	47.1	NA
Manganese	mg/l	0.775	1.18	1.05	1.07	NA	0.831	NA	0.63	1.03	1.28	1.03	NA	1.01	NA	0.625	1.07	NA	1.09	NA	0.711	NA

Monitoring Well ID		MW-4							64W97-9						NR 140	
Date	Units	06/25/2004	08/26/2004	11/15/2004	05/09/2005	09/20/2005	11/30/2005	03/24/2006	08/26/2004	11/15/2004	05/09/2005	09/20/2005	11/30/2005	03/24/2006	ES	PAL
Lead	mgL	NA	<0.005	NA	ND	<0.005	<0.005	NA	<0.005	NA	ND	<0.005	<0.005	NA	15	1.5
Volatile Organic Compounds																
Benzene	µg/l	**56.9**	**71.3**	**62.1**	**88.4**	**76.9**	**89.2**	**56**	<0.5	<0.5	<0.34	<0.572	<0.572	<0.2	5.0	0.5
n-Butylbenzene	µg/l	ND	ND	ND	ND	1.43	1.43	0.76	ND	ND	ND	<1.39	0.63	<0.2	NS	NS
sec-Butylbenzene	µg/l	ND	ND	ND	ND	1.03	1.33	0.97	ND	ND	ND	2.33	2.03	<0.25	NS	NS
1,1-Dichloroethane	µg/l	<5.0	<5.0	<5.0	<5.0	<0.598	<0.598	<0.5	<5.0	<5.0	<5.0	<0.598	<0.598	<0.5	850	85
1,2-Dichloroethane	µg/l	<0.5	<0.5	<0.5	<0.387	<0.587	<0.587	<0.5	<0.5	<0.5	<0.387	<0.587	<0.587	<0.5	5.0	0.5
1,1-Dichloroethene	µg/l	<5.0	<5.0	<5.0	<0.451	<0.639	<0.639	<0.5	<0.5	<0.5	<0.451	<0.639	<0.639	<0.5	7.0	0.7
cis-1,2-Dichloroethene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.795	<0.795	<0.5	<5.0	<5.0	<5.0	<0.795	<0.795	<0.5	70	7.0
trans-1,2,-Dichloroethene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.573	<0.573	<0.5	<5.0	<5.0	<5.0	<0.573	<0.573	<0.5	100	20
Ethylbenzene	µg/l	<10	<5.0	<5.0	<5.0	<0.506	<0.506	<0.5	<5.0	<5.0	<5.0	<0.506	<0.506	<0.5	700	140
Isopropylbenzene	µg/l	ND	ND	ND	ND	3.29	<0.562	3.4	ND	ND	ND	5.54	<0.562	<0.2	NS	NS
Methyl tert-butyl ether	µg/l	0.91	1.1	<0.29	<0.405	0.98	<0.668	<0.5	<0.29	<0.29	<0.405	<0.668	<0.668	<0.5	60	12
Methylene chloride	µg/l	NA	NA	NA	**3.84**	<1.46	**10.9**	<1.0	NA	NA	**3.66**	<1.46	**11.6**	<1.0	5.0	0.5
Naphthalene	µg/l	<8.0	<8.0	<8.0	<8.0	<0.535	<0.535	<0.25	<8.0	<8.0	<8.0	<0.535	<0.535	<0.25	40	8.0
n-Propylbenzene	µg/l	ND	ND	ND	ND	1.69	2.87	1.4[J]	ND	ND	ND	1.07	0.63	<0.5	NS	NS
Tetrachloroethane	µg/l	<0.5	<0.5	<0.5	<0.295	<0.63	<0.63	<0.5	<0.5	<0.5	<0.295	<0.63	<0.63	<0.5	5.0	0.5
Toluene	µg/l	<5.0	<5.0	<5.0	<5.0	1.23	1.33	0.92	<5.0	<5.0	<5.0	<0.567	<0.567	<0.2	1,000	200
Trichloroethene	µg/l	<0.5	<0.5	<0.5	<0.495	<0.734	<0.734	<0.2	<0.5	<0.5	<0.495	<0.734	<0.734	<0.2	5.0	0.5
1,2,4-Trimethylbenzene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.803	<0.803	0.3[J]	<5.0	<5.0	<5.0	<0.803	<0.803	<0.2	**	**
1,3,5-Trimethylbenzene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.628	<0.628	<0.2	<5.0	<5.0	<5.0	<0.628	<0.628	<0.2	**	**
Total Trimethylbenzene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.803	<0.803	0.3	<5.0	<5.0	<5.0	<0.803	<0.803	<0.2	480	96
Vinyl Chloride	µg/l	<0.217	<0.217	<0.217[G28]	<0.306	<1.25	<1.25	<0.2	<0.217	<0.217[G28]	<0.306	<1.25	<1.25	<0.2	0.2	0.02
Total Xylenes	µg/l	<5.0	<5.0	<5.0	<5.0	<1.43	1.32	<0.5	<5.0	<5.0	<5.0	<1.43	0.57	<0.5	10,000	1,000
Polynuclear Aromatic Hydrocarbons																
Acenaphthene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.33	<5.0	<5.0	NA	NA	1.8	<0.33	NS	NS
Acenaphthylene	µg/l	18.9	<5.0	12	NA	NA	13.4	<0.7	10.8	7.66	NA	NA	14.5	<0.69	NS	NS
Anthracene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.038	<5.0	<5.0	NA	NA	<5.0	<0.038	3,000	600
Benzo(a)anthracene	µg/l	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.044	<0.1	<0.1	NA	NA	<0.1	<0.044	NS	NS
Benzo(b)fluoranthene	µg/l	<0.02	<0.02	0.023	NA	NA	<0.02	<0.099	<0.02	<0.02	NA	NA	<0.02	<0.098	0.2	0.02
Benzo(k)fluoranthene	µg/l	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.049	<0.1	<0.1	NA	NA	<0.1	<0.049	NS	NS
Benzo(a)pyrene	µg/l	<0.02	<0.02	<0.02[011]	NA	NA	<0.02	<0.032	<0.02	<0.02	NA	NA	<0.02	<0.032	0.2	0.02
Benzo(ghi)perylene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.12	<5.0	<5.0	NA	NA	<5.0	<0.12	NS	NS
Chrysene	µg/l	0.102	<0.02	0.0512	NA	NA	0.0588	<0.041	<0.02	<0.02	NA	NA	0.00874	<0.041	40	8.0
Dibenzo(a,h)anthracene	µg/l	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.13	<0.1	<0.1	NA	NA	<0.1	<0.13	NS	NS
Fluoranthene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.082	<5.0	<5.0	NA	NA	1.54	0.11[J]	400	80
Fluorene	µg/l	<5.0	<5.0	<5.0	NA	NA	0.646	<0.063	<5.0	<5.0	NA	NA	3.11	<0.062	400	80
Indeno(1,2,3-cd)pyrene	µg/l	<0.2	<0.2	<0.2	NA	NA	<0.2	<0.063	<0.2	<0.2	NA	NA	<0.2	<0.062	NS	NS
1-Methylnaphthalene	µg/l	17.1	<5.0	14.7	NA	NA	18.6	<0.32	8.26	12	NA	NA	12.1	<0.32	NS	NS
2-Methylnaphthalene	µg/l	8.55	<5.0	<5.0	NA	NA	0.177	<0.31	<5.0	<5.0	NA	NA	2.83	<0.31	NS	NS
Naphthalene	µg/l	<5.0	<5.0	<5.0	NA	NA	0.672	<0.4	<5.0	<5.0	NA	NA	1.98	<0.4	NS	NS
Phenanthrene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.03	<5.0	<5.0	NA	NA	0.956	0.04[J]	NS	NS
Pyrene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.044	<5.0	<5.0	NA	NA	0.122	0.049[J]	250	50
Natural Attenuation Parameters																
Nitrate/Nitrite	mg/l	<0.14	<0.05	0.166	ND	<0.05	<0.05	NA	0.093	0.208	0.105	0.074	<0.05	NA	10,000	2,000
Sulfate	mg/l	32.3	<10	<10	ND	<10	4.7	NA	<10	<10	ND	<10	4.94	NA	NS	NS
Manganese	mg/l	0.512	0.902	0.913	0.957	NA	0.803	NA	0.651	0.554	0.5	NA	0.469	NA	NS	NS

Notes:

J = Results reported between the Method Detection Limit and Limit of Quantitation are less certain than results at or above the LOQ.

011 = The check standard that corresponds to this sample met the SW846 method requirements. However, it should be noted that the recovery for this individual compond in the check standard was below 85%.

G28 = The recovery of this Calibration Check Compound (CCC) in the check standard is above the method specified acceptance criteria

µg/L = micrograms per liter (equivalent to parts per billion)

mg/L = milligrams per liter (equivalent to parts per million)

NA = Not Analyzed NS =No Standard

NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard

NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit

Exceedances: **BOLD** = concentration exceeds Chapter NR 140 PAL BOX = concentration exceeds Chapter NR 140 ES

Table 1
Soil Analytical Results
Mercury Marine Plant 64 West Parking Area
Oshkosh, Wisconsin
Project Reference #8494

Parameter	Units	GP-1		GP-2		GP-3		GP-4		GP-5		NR 720 RCL		NR 746	PAH Interim Guidance RCL		
Depth		2-4	6-8	0-2	4-6	0-2	8-10	2-4	6-8	0-2	4-6	Table 1	Table 2		Direct Contact		Groundwater
Date		3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004		Non-Industrial	Table 1	Non-Industrial	Industrial	Pathway
Gasoline Range Organics	mg/kg	<7.54	<6.59	<6.61	<6.97	<5.56	<6.22	<5.59	<6.23	7.95	21.9	100	--	--	--	--	--
Diesel Range Organice	mg/kg	58.4	<6.59	14.1	<6.97	6.6	<6.22	**106**	<6.23	**406**	87.5	100	--	--	--	--	--
Lead	mg/kg	71.3	11.3	21.7	12.4	15.5	12.5	79.0	8.46	31.6	440	--	50	--	--	--	--
Volatile Organic Compounds - Detects Only																	
Benzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	**45.2**	<25.0	5.5	--	8500	--	--	--
n-Butylbenzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	--	--	--	--	--	--
sec-Butylbenzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	--	--	--	--	--	--
Ethylbenzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	63.9	<25.0	2900	--	4600	--	--	--
Isopropylbenzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	--	--	--	--	--	--
p-Isopropylbenzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	--	--	--	20000	110000	400
Naphthalene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	111	<25.0	216	<25.0	--	--	--	--	--	--
n-Propylbenzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	--	--	--	--	--	--
Toluene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	173	<25.0	272	<25.0	1500	--	38000	--	--	--
1,2,4-Trimethylbenzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	50.9	<25.0	97.8	<25.0	--	--	83000	--	--	--
1,3,5-Trimethylbenzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	30	<25.0	--	--	11000	--	--	--
Xylenes	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	162	<25.0	331	<25.0	4100	--	42000	--	--	--
Polynuclear Aromatic Hydrocarbons																	
Acenaphthene	µg/kg	<151	<132	<132	<139	<111	<124	1830	<125	429	<144	--	--	--	900000	60000000	38000
Acenaphthylene	µg/kg	<302	<263	<265	<279	<222	<249	561	<249	<226	<288	--	--	--	18000	360000	700
Anthracene	µg/kg	<151	<132	<132	<139	<111	<124	399	<125	<113	<144	--	--	--	5000000	300000000	3000000
Benz(a)anthracene	µg/kg	**132**	<65.9	<66.1	<69.7	<55.6	<62.2	**1180**	<62.3	**113**	<72.1	--	--	--	88	3900	17000
Benzo(a)pyrene	µg/kg	**147**	<6.59	**37.2**	<6.97	**45.8**	**15.8**	**706**	<6.23	**53.3**	7.79	--	--	--	8.8	390	48000
Benzo(b)fluoranthene	µg/kg	**110**	<65.9	<66.1	<69.7	<55.6	<62.2	**890**	<62.3	58.7	<72.1	--	--	--	88	3900	360000
Benzo(ghi)perylene	µg/kg	<151	<132	<132	<139	<111	<124	545	<125	<113	<144	--	--	--	1800	39000	6800000
Benzo(k)fluoranthene	µg/kg	<151	<132	<132	<139	<111	<124	496	<125	<113	<144	--	--	--	880	39000	870000
Chrysene	µg/kg	<151	<132	<132	<139	<111	<124	977	<125	<113	<144	--	--	--	8800	390000	37000
Dibenzo(a,h)anthracene	µg/kg	**81.2**	<6.59	<6.61	<6.97	<5.56	<6.22	**683**	<6.23	<5.65	<7.21	--	--	--	8.8	390	38000
Fluoranthene	µg/kg	243	<132	<132	<139	<111	<124	1980	<125	275	<144	--	--	--	600000	40000000	500000
Fluorene	µg/kg	<151	<132	<132	<139	<111	<124	<112	<125	<113	<144	--	--	--	600000	40000000	100000
Indeno(1,2,3-cd)pyrene	µg/kg	78.2	<65.9	<66.1	<69.7	<55.6	<62.2	**631**	<62.3	<56.5	<72.1	--	--	--	88	3900	680000
1-Methylnaphthalene	µg/kg	<151	<132	<132	<139	<111	<124	453	<125	590	173	--	--	--	1100000	70000000	23000
2-Methylnaphthalene	µg/kg	159	<132	<132	<139	<111	<124	1600	<125	716	219	--	--	--	600000	40000000	20000
Naphthalene	µg/kg	<151	<132	<132	<139	<111	<124	<112	<125	142	<144	--	--	--	20000	110000	400
Phenanthrene	µg/kg	207	<132	<132	<139	<111	<124	1040	<125	275	<144	--	--	--	18000	390000	1800
Pyrene	µg/kg	179	<132	<132	<139	<111	<124	1270	<125	746	<144	--	--	--	500000	30000000	8700000

notes:

- Trip blank reported in micrograms or milligrams per liter
- mg/kg = milligrams per kilogram
- µg/kg = micrograms per kilogram
- NA = not analyzed
- -- = no established standard
- NR 720 RCL = Chapter NR 720 Residual Contaminant levels, Table 1 and Table 2 (non-industrial)
- NR 746 Table 1 = Chapter NR 746 Soil Screening Levels, Table 1
- PAH Interim Guidance = Soil Clean up Level for PAHs Interim Guidance, Groundwater pathway, Direct Dontact (Industrial and Non-Industrial)

BOLD = Concentrations reported above NR 720 RCLs and Interim Guidance PAH levels, Direct Contact (non-industrial)
BOLD = Concentrations reported above Interim Guidance PAH level, Direct Contact (industrial)
Italics = Concentrations reported above Interim Guidance PAH Level, Groundwater pathway

Table 1
Soil Analytical Results
Mercury Marine Plant 64 West Parking Area
Oshkosh, Wisconsin
Project Reference #8494

Parameter	Units	GP-6		GP-7		GP-8		GP-9		GP-10		Trip	NR 720 RCL		NR 746	PAH Interim Guidance RCL		
Depth		0-4	4-6	0-2	4-6	0-4	4-5	0-4	4-6	0-2	6-8		Table 1	Table 2		Direct Contact		Groundwater
Date		3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004	3/18/2004		Non-Industrial	Table 1	Non-Industrial	Industrial	Pathway
Gasoline Range Organics	mg/kg	<5.59	**330**	22.6	<6.99	<5.96	**484**	10.2	30.7	13.7	<7.04	<5.0	100	--	--	--	--	--
Diesel Range Organics	mg/kg	**470**	**3930**	**723**	NA	28.1	**13600**	**221**	317	63.8	41.8	NA	100	--	--	--	--	--
Lead	mg/kg	41.9	63.0	21.9	11.4	34.7	195	156	19.5	19.4	15.0	NA	--	50	--	--	--	--
Volatile Organic Compounds - Detects Only																		
Benzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	**40.1**	<25.0	<25.0	5.5	--	8500	--	--	--
n-Butylbenzene	µg/kg	<25.0	980	28.5	<25.0	<25.0	1260	<25.0	70.7	39.0	<25.0	<25.0	--	--	--	--	--	--
sec-Butylbenzene	µg/kg	<25.0	442	<25.0	<25.0	<25.0	801	<25.0	69.9	<25.0	<25.0	<25.0	--	--	--	--	--	--
Ethylbenzene	µg/kg	38.0	<25.0	<25.0	<25.0	<25.0	132	<25.0	<25.0	95.3	<25.0	<25.0	2900	--	4600	--	--	--
Isopropylbenzene	µg/kg	207	2270	203	<25.0	<25.0	399	227	316	227	<25.0	<25.0	--	--	--	--	--	--
p-Isopropylbenzene	µg/kg	<25.0	690	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	--	--	--	--	--	--
Naphthalene	µg/kg	273	2350	133	<25.0	47.7	<25.0	215	53.5	543	<25.0	<25.0	--	--	--	--	--	--
n-Propylbenzene	µg/kg	<25.0	333	<25.0	<25.0	<25.0	831	<25.0	51.8	50.7	<25.0	<25.0	--	--	--	20000	110000	400
Toluene	µg/kg	235	<25.0	142	<25.0	212	<25.0	217	<25.0	408	<25.0	<25.0	1500	--	38000	--	--	--
1,2,4-Trimethylbenzene	µg/kg	96.1	<25.0	33.5	<25.0	<25.0	123	78.1	<25.0	239	<25.0	<25.0	--	--	83000	--	--	--
1,3,5-Trimethylbenzene	µg/kg	41.9	<25.0	<25.0	<25.0	<25.0	<25.0	32.2	<25.0	83.6	<25.0	<25.0	--	--	11000	--	--	--
Xylenes	µg/kg	246	<25.0	34.0	<25.0	<25.0	94.4	196	<25.0	737	<25.0	<25.0	4100	--	42000	--	--	--
Polynuclear Aromatic Hydrocarbons																		
Acenaphthene	µg/kg	<112	830	<110	<140	<119	1240	568	349	845	<141	NA	--	--	--	900000	60000000	38000
Acenaphthylene	µg/kg	<224	*1640*	<219	<280	<238	*8340*	254	<329	<223	<281	NA	--	--	--	18000	360000	700
Anthracene	µg/kg	<112	2460	<110	200	<119	819	<124	269	<111	<141	NA	--	--	--	5000000	300000000	3000000
Benz(a)anthracene	µg/kg	**110**	**698**	<54.9	76.4	69.6	**218**	**227**	<82.3	**150**	<70.4	NA	--	--	--	88	3900	17000
Benzo(a)pyrene	µg/kg	**326**	**406**	**48.3**	7.74	**47.8**	**75.2**	**210**	**13.8**	**79.0**	<7.04	NA	--	--	--	8.8	390	48000
Benzo(b)fluoranthene	µg/kg	69.6	**201**	<54.9	<69.9	<59.6	<69.1	**204**	<82.3	**106**	<70.4	NA	--	--	--	88	3900	360000
Benzo(ghi)perylene	µg/kg	176	304	<110	<140	<119	<138	186	<165	<111	<141	NA	--	--	--	1800	39000	6800000
Benzo(k)fluoranthene	µg/kg	178	657	<110	<140	<119	<138	124	<165	<111	<141	NA	--	--	--	880	39000	870000
Chrysene	µg/kg	<112	6720	<110	8910	<119	<138	168	<165	122	<141	NA	--	--	--	8800	390000	37000
Dibenzo(a,h)anthracene	µg/kg	<5.59	**326**	<5.49	<6.99	<5.96	**17.6**	**21.8**	<8.23	177	<7.04	NA	--	--	--	8.8	390	38000
Fluoranthene	µg/kg	<112	7010	234	373	125	4130	253	1140	727	<141	NA	--	--	--	600000	40000000	500000
Fluorene	µg/kg	<112	2540	<110	301	<119	4250	<124	413	<111	<141	NA	--	--	--	600000	40000000	100000
Indeno(1,2,3-cd)pyrene	µg/kg	<55.9	<58.8	<54.9	<69.9	<59.6	**103**	**229**	<82.3	<55.6	<70.4	NA	--	--	--	88	3900	680000
1-Methylnaphthalene	µg/kg	203	16200	463	990	153	11700	401	1240	2360	<141	NA	--	--	--	1100000	70000000	23000
2-Methylnaphthalene	µg/kg	292	12000	414	1170	<119	4570	594	<165	1860	<141	NA	--	--	--	600000	40000000	20000
Naphthalene	µg/kg	<112	*1420*	<110	<140	<119	<138	153	<165	*507*	<141	NA	--	--	--	20000	110000	400
Phenanthrene	µg/kg	<112	*5290*	172	259	<119	*3000*	167	747	575	<141	NA	--	--	--	18000	390000	1800
Pyrene	µg/kg	<112	2260	<110	<140	<119	840	186	361	387	<141	NA	--	--	--	500000	30000000	8700000

notes:

- Trip blank reported in micrograms or milligrams per liter
- mg/kg = milligrams per kilogram
- µg/kg = micrograms per kilogram
- NA = not analyzed
- -- = no established standard
- NR 720 RCL = Chapter NR 720 Residual Contaminant levels, Table 1 and Table 2 (non-industrial)
- NR 746 Table 1 = Chapter NR 746 Soil Screening Levels, Table 1
- PAH Interim Guidance = Soil Clean up Level for PAHs Interim Guidance, Groundwater pathway, Direct Dontact (Industrial and Non-Industrial)

BOLD = Concentrations reported above NR 720 RCLs and Interim Guidance PAH levels, Direct Contact (non-industrial)
BOLD = Concentrations reported above Interim Guidance PAH level, Direct Contact (industrial)
Italics = Concentrations reported above Interim Guidance PAH Level, Groundwater pathway

Table 1
Laboratory Analytical Results - Soil
Marion/Pearl Redevelopment
STS Project 4-26678XA

Sample Number Sample Depth PID Result Date	Units	GS-26 7' <1 4/30/03	GS-27 7' <1 4/30/03	GS-28 7' <1 4/30/03	GS-29 7' <1 4/30/03	GS-30 7' <1 4/30/03	GS-31 7' <1 4/30/03	GS-32 7' <1 4/30/03	GS-33 8' <1 4/30/03	NR 746 Soil Direct Contact	NR 720 Groundwater Pathway Values	NR 746 Soil Screening Levels
VOCs												
Benzene	ug/kg	<25	<25	<25	<25	<25	<25	<25	<25	**1,100**	**5.5**	**8,500**
Ethylbenzene	ug/kg	<25	<25	<25	<25	<25	<25	<25	<25	---	**2,900**	**4,600**
Methyl-tert-butyl-ether	ug/kg	<25	<25	<25	<25	<25	<25	<25	<25	---	---	---
Naphthalene	ug/kg	<25	<25	39	**4,700**	<25	<25	<25	<25	---	---	**2,700**
Toluene	ug/kg	<25	<25	<25	<25	<25	<25	<25	<25	---	**1,500**	**38,000**
Total-Trimethylbenzene	ug/kg	<50	1,000	<50	1,680	<50	<50	<50	<50	---	---	**94,000**
Total Xylene	ug/kg	<75	190	<75	364	<75	<75	<75	<75	---	**4,100**	**42,000**

Notes:
ug/kg - Micrograms per kilograms
35 - Concentration exceeds RCL (underlined)
--- - No Criteria Established
NA - Not Analyzed
PID - Photoionization Detector results reported as PID units

POST CLOSURE

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
MERCURY MARINE
STS PROJECT NO. 200701841

Parameters	NR 140 Standards ES	NR 140 Standards PAL	MM-SB-6 W070618 6/18/2007	MM-SB-6 W070827 8/27/2007	MM-SB-6 W122007 12/20/2007	MM-SB-6 6/10/2008	MM-SB-7 W070618 6/18/2007	MM-SB-7 W070827 8/27/2007	MM-SB-7 W122007 12/21/2007	MM-SB-7 6/10/2008	MM-SB-8 W070618 6/18/2007	MM-SB-9 W070618 6/18/2007	MM-SB-10 W070618 6/18/2007	MM-SB-10 W070828 8/27/2007	MM-SB-10 W122007 12/21/2007
Location on Site			–	–	–	–	–	–	–	–	–	–	–	–	–
Metals (ug/L)															
Arsenic	10	1.0	2.44	2.3	5.64	NA	NA	NA	NA	NA	NA	NA	1.87	0.9	<0.60
Barium	2000	400	178	NA	NA	NA	NA	NA	NA	NA	NA	NA	94.8	NA	NA
Cadmium	5.0	0.5	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	NA	NA
Chromium	100	10	<1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	NA
Lead	15	1.5	1.71	0.88	0.32	NA	NA	NA	NA	NA	NA	NA	1.09	NA	NA
Selenium	50	10	<0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.60	NA	NA
Silver	50	10	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	NA	NA
Mercury	2.0	0.2	<0.070	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.070	NA	NA
VOCs (µg/L)															
Benzene	5.0	0.5	2.71	0.83	4.59	<0.20	28	32.5	36.4	24.9	<0.20	<0.20	<0.20	NA	NA
Bromobenzene	–	–	<0.20	NA	NA	0.7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
Bromomethane	10	1.0	<1.0	NA	NA	<1.0	<1.0	1.94	<1.00	<1.0	<1.0	<1.0	<1.0	NA	NA
Bromodichloromethane	0.6	0.06	<0.20	NA	NA	<0.40	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	NA	NA
tert-Butylbenzene	–	–	<0.20	NA	NA	<0.30	0.48	0.46	0.57	0.53	<0.20	<0.20	<0.20	NA	NA
sec-Butylbenzene	–	–	<0.20	NA	NA	<0.30	<0.20	<0.20	<0.20	<0.30	<0.20	<0.20	<0.20	NA	NA
Butylbenzene	–	–	<0.20	NA	NA	<0.40	<0.20	9.77	<0.20	NA	<0.20	<0.20	<0.20	NA	NA
Carbon tetrachloride	5.0	0.5	<0.20	NA	NA	<0.30	<0.20	<0.20	<0.20	<0.30	<0.20	<0.20	<0.20	NA	NA
Chlorobenzene	–	–	<0.10	NA	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA
Chloroethane	400	80	<0.60	NA	NA	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	NA	NA
Chloroform	6.0	0.6	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
Chloromethane	3.0	0.3	<0.30	NA	NA	<0.40	<0.30	<0.30	<0.30	<0.40	<0.30	<0.30	<0.30	NA	NA
2-Chlorotoluene	–	–	<0.10	NA	NA	<0.30	<0.10	<0.10	<0.10	<0.30	<0.10	<0.10	<0.10	NA	NA
4-Chlorotoluene	–	–	<0.20	NA	NA	<0.30	<0.20	<0.20	<0.20	<0.30	<0.20	<0.20	<0.20	NA	NA
Dibromochloromethane	0.06	0.6	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
1,4-Dichlorobenzene	75	15	<0.80	NA	NA	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	NA	NA
1,3-Dichlorobenzene	1250	125	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
1,2-Dichlorobenzene	600	60	<0.80	NA	NA	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	NA	NA
Dichlorodifluoromethane	1000	200	<0.30	NA	NA	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	NA	NA
1,2-Dichloroethane	5.0	0.5	<0.20	NA	NA	<0.30	0.68	0.82	1.03	0.66	<0.20	<0.20	<0.20	NA	NA
1,1-Dichloroethane	850	85	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
1,1-Dichloroethylene	7.0	0.7	<0.40	NA	NA	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	NA	NA
1,1-Dichloropropylene	–	–	<0.30	NA	NA	<0.50	<0.30	1.61	1.42	2.38	<0.30	<0.30	<0.30	NA	NA
cis-1,2-Dichloroethene	70	7.0	<0.20	NA	NA	<0.30	1.76	1.27	NA	3.66	<0.20	<0.20	<0.20	NA	NA
trans-1,2-Dichloroethene	100	20	<0.20	NA	NA	<0.20	0.22	0.24	0.42	0.41	<0.20	<0.20	<0.20	NA	NA
1,2-Dichloropropane	5.0	0.5	<0.20	NA	NA	<0.30	<0.20	<0.20	<0.20	NA	<0.20	<0.20	<0.20	NA	NA
2,2-Dichloropropane	–	–	<0.20	NA	NA	<1.0	<0.20	<0.20	<0.20	NA	<0.20	<0.20	<0.20	NA	NA
1,3-Dichloropropane	–	–	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
Ethylbenzene	700	140	<0.10	<0.10	0.13	<0.20	0.57	0.57	0.42	0.61	<0.10	<0.10	<0.10	NA	NA
Hexachlorobutadiene	–	–	<1.0	NA	NA	<1.0	<1.0	<1.0	<1.00	<1.0	<1.0	<1.0	<1.0	NA	NA
4-Isopropylbenzene	–	–	1.09	NA	NA	<0.20	8.97	<0.20	1.53	4.59	0.28	0.21	35	NA	NA
p-Isopropyltoluene	–	–	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	–	–	<0.10	NA	NA	<0.10	8.97	9.45	7.78	9.6	<0.10	<0.10	<0.10	NA	NA
Methylene chloride	5.0	0.5	<0.40	NA	NA	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	NA	NA
Methyl-tert-butyl-ether	60	12	0.41	<0.20	1.94	<0.50	<0.20	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	NA	NA
Naphthalene	100	10	<1.0	NA	NA	<1.0	<1.0	<1.0	<1.00	<1.0	<1.0	<1.0	<1.0	NA	NA
Propylbenzene	–	–	<0.10	NA	NA	<0.10	19.2	20	16.9	20.6	<0.10	<0.10	<0.10	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.30	NA	NA	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	NA	NA
Tetrachloroethene	5.0	0.5	<0.30	NA	NA	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	NA	NA
Toluene	1000	200	<0.40	<0.40	<0.40	<0.40	0.98	1.09	1.03	1.24	<0.40	<0.40	<0.40	NA	NA
1,2,4-Trichlorobenzene	70	14	<0.50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
1,2,3-Trichlorobenzene	–	–	<0.50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
1,1,1-Trichloroethane	200	40	<0.20	NA	NA	<0.20	<0.20	<0.30	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
1,1,2-Trichloroethane	5.0	0.5	<0.20	NA	NA	<0.30	<0.20	<0.20	<0.20	<0.30	<0.20	<0.20	<0.20	NA	NA
Trichloroethene (TCE)	5.0	0.5	<0.20	NA	NA	<0.40	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.20	NA	NA
Trichlorofluoromethane	3490	698	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
Total Trimethylbenzene[1]	480	96	<0.40	<0.40	<0.40	<0.40	14	11.91	21.59	11.33	<0.40	<0.40	<0.40	NA	NA
Vinyl chloride	0.2	0.02	<0.20	NA	NA	<0.20	0.9	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
Total Xylene[2]	10,000	1000	<0.60	<0.60	<0.60	<0.60	1.19	1.27	1.72	1.15	<0.60	<0.60	<0.60	NA	NA
PAHs (µg/L)															
Acenaphthene	–	–	<0.071	NA	NA	NA	<1.26	NA	NA	NA	<0.080	<0.067	<0.067	NA	NA
Acenaphthylene	–	–	<0.071	NA	NA	NA	<1.26	NA	NA	NA	<0.080	<0.067	<0.067	NA	NA
Anthracene	3000	600	<0.106	NA	NA	NA	<0.095	NA	NA	NA	<0.120	<1.0	<1.0	NA	NA
Benzo(a)anthracene	–	–	<0.118	NA	NA	NA	<0.105	NA	NA	NA	<0.133	<0.111	<0.111	NA	NA
Benzo(a)pyrene	0.2	0.02	<0.024	NA	NA	NA	<0.021	NA	NA	NA	<0.027	<0.022	<0.022	NA	NA
Benzo(b)fluoranthene	0.2	0.02	<0.024	NA	NA	NA	<0.421	NA	NA	NA	<0.027	<0.022	<0.022	NA	NA
Benzo(ghi)perylene	–	–	<0.071	NA	NA	NA	<0.063	NA	NA	NA	<0.80	<0.067	<0.067	NA	NA
Benzo(k)fluoranthene	–	–	<0.082	NA	NA	NA	<0.074	NA	NA	NA	<0.093	<0.078	<0.078	NA	NA
Chrysene	0.2	0.02	<0.024	NA	NA	NA	<0.021	NA	NA	NA	<0.027	<0.022	<0.022	NA	NA
Dibenzo(a,h,)anthracene	–	–	<0.129	NA	NA	NA	<0.116	NA	NA	NA	<0.147	<0.122	<0.122	NA	NA
Fluroanthene	400	80	<0.141	NA	NA	NA	<0.126	NA	NA	NA	<0.160	<0.133	<0.133	NA	NA
Fluorene	400	80	<0.141	NA	NA	NA	<2.53	NA	NA	NA	<0.160	<0.133	<0.133	NA	NA
Indeno(1,2,3-cd)pyrene	–	–	<0.141	NA	NA	NA	<0.126	NA	NA	NA	<0.160	<0.133	<0.133	NA	NA
1-Methylnaphthalene	–	–	<0.094	NA	NA	NA	94.1	NA	NA	NA	<0.107	<0.089	<0.089	NA	NA
2-Methylnaphthalene	–	–	<0.129	NA	NA	NA	<0.116	NA	NA	NA	<0.147	<0.122	<0.122	NA	NA
Naphthalene	100	10	<0.129	NA	NA	NA	<0.116	NA	NA	NA	<0.147	<0.122	<0.122	NA	NA
Phenanthrene	–	–	<0.129	NA	NA	NA	<0.116	NA	NA	NA	<0.147	<0.122	<0.122	NA	NA
Pyrene	250	50	<0.118	NA	NA	NA	<2.11	NA	NA	NA	<0.133	<0.1111	<0.1111	NA	NA

Notes:
5.0 - Exceeds NR 140 ES
0.5 - Exceeds NR 140 PAL
– = No NR 140 Standards
NA = Not Analyzed
< = Less than laboratory detection limit

POST CLOSURE

Table 1 - Groundwater Elevations

GROUNDWATER FIELD DATA
PROPOSED SENIOR APARTMENTS
FORMER MERCURY MARINE
OSHKOSH, WISCONSIN

Date	Well I.D.	Ground Surface Elevation (Feet)	TPVC Elevation (Feet)	Screen Interval (Feet below grade)	Screen Interval Elevation (Feet)	Depth to Water below TPVC (Feet)	Groundwater Elevation (Feet)	Temp (C)	pH (Units)	Conductivity (umhos/cm)	Color	Odor
06/18/07	MM-SB-6	750.35	752.57	5 -15'	745.35 - 735.35	5.35	747.22	19.6	7.2	1330	N/A	None
07/26/07						5.69	746.88	--	--	--	--	--
08/09/07						5.73	746.84	--	--	--	--	--
08/27/07						5.57	747.00	21.2	6.63	1155	Colorless	None
12/17/07						6.05	746.52	10.7	6.6	1467	Lt. Grey	None
06/10/08						5.05	747.52	15.4	6.72	785	Lt. Brown	None
06/18/07	MM-SB-7	750.49	752.82	5 - 15'	745.49 - 735.49	5.90	746.92	15.2	7.0	1150	Lt. Grey	Petroleum
07/26/07						5.88	746.94	--	--	--	--	--
08/09/07						5.94	746.88	--	--	--	--	--
08/27/07						4.90	747.92	19.2	6.95	1255	--	Slight Petroleum
12/17/07						6.28	746.54	10.7	6.83	1423	Dark Grey	Petroleum
06/10/08						5.15	747.67	13.4	6.75	1343	Lt. brown	Medium to Strong
06/18/07	MM-SB-8	751.66	753.89	5 - 15'	746.66 - 836.66	6.55	747.34	17.2	6.85	1147	Dark Grey	Musty
07/26/07						7.04	746.85	--	--	--	--	--
08/09/07						7.07	746.82	--	--	--	--	--
08/27/07						6.05	747.84	--	--	--	--	--
12/17/07						7.40	746.49	--	--	--	--	--
06/10/08						6.22	747.67	--	--	--	--	--
06/18/07	MM-SB-9	752.23	751.92	5 - 15'	747.23 - 737.23	4.20	747.72	18.1	6.8	1580	Colorless	None
07/26/07						4.59	747.33	--	--	--	--	--
08/09/07						4.63	747.29	--	--	--	--	--
08/27/07						3.97	747.95	--	--	--	--	--
12/17/07						5.37	746.55	--	--	--	--	--
06/10/08						3.90	748.02	--	--	--	--	--
06/18/07	MM-SB-10	750.72	752.96	5 - 15'	745.72 - 735.72	5.57	747.39	17.3	6.8	1200	Colorless	Musty
07/26/07						6.11	746.85	--	--	--	--	--
08/09/07						6.14	746.82	--	--	--	--	--
08/27/07						5.95	747.01	19.5	6.85	1230	--	None
12/17/07						6.45	746.51	9.7	6.83	1443	Lt. Grey	None
06/10/08						5.52	747.44	--	--	--	--	--
07/26/07	MW-1	751.89	751.55	3 - 13'	748.55 - 738.55	4.71	746.84	--	--	--	--	--
08/09/07						4.81	746.74	--	--	--	--	--
08/27/07						3.80	747.75	--	--	--	--	--
12/17/07						5.16	746.39	--	--	--	--	--
06/10/08						3.51	748.04	--	--	--	--	--
07/26/07	MW-2	751.69	751.30	3 - 13'	748.30 - 738.30	4.42	746.88	--	--	--	--	--
08/09/07						4.43	746.87	--	--	--	--	--
08/27/07						NM	NM	--	--	--	--	--
12/17/07						4.85	746.45	--	--	--	--	--
06/10/08						3.53	747.77	--	--	--	--	--
07/26/07	MW-3	751.13	750.90	3 - 13'	747.90 - 737.90	3.99	746.91	--	--	--	--	--
08/09/07						4.11	746.79	--	--	--	--	--
08/27/07						3.76	747.14	--	--	--	--	--
12/17/07						4.67	746.23	--	--	--	--	--
06/10/08						3.23	747.67	--	--	--	--	--
07/26/07	MW-4	750.42	750.08	2.5 - 12.5'	747.58 - 737.58	3.36	746.72	--	--	--	--	--
08/09/07						3.22	746.86	--	--	--	--	--
08/27/07						NM	NM	--	--	--	--	--
12/17/07						3.51	746.57	--	--	--	--	--
06/10/08						2.56	747.52	--	--	--	--	--

Notes:
-- = Not Sampled
N/A = Not Available

TABLE 2
GROUNDWATER ANALYTICAL QUALITY RESULTS
MERCURY MARINE
PLANT 64 WEST
Project Reference #8494

Monitoring Well ID		MW-1							MW-2							MW-3							MW-4							64W97-6						NR 140	
Date	Units	08/25/2004	08/26/2004	11/15/2004	05/09/2005	08/20/2005	11/30/2005	03/24/2006	08/25/2004	08/26/2004	11/15/2004	05/09/2005	08/20/2005	11/30/2005	03/24/2006	08/25/2004	08/26/2004	11/15/2004	05/09/2005	08/20/2005	11/30/2005	03/24/2006	08/25/2004	08/26/2004	11/15/2004	05/09/2005	08/20/2005	11/30/2005	03/24/2006	08/26/2004	11/15/2004	05/09/2005	08/20/2005	11/30/2005	03/24/2006	ES	PAL
Lead	mg/L	NA	<0.005	NA	ND	<0.005	<0.005	NA	NA	<0.005	NA	ND	<0.005	<0.005	NA	NA	<0.005	NA	ND	<0.005	<0.005	NA	NA	<0.005	NA	ND	<0.005	<0.005	NA	<0.005	NA	ND	<0.005	<0.005	NA	15	1.5
Volatile Organic Compounds																																					
Benzene	µg/l	<0.5	<0.5	<0.5	<0.34	<0.572	<0.572	<0.2	<0.5	<0.5	<0.5	<0.34	<0.572	<0.572	<0.2	<0.5	<0.5	NA	<0.34	<0.572	<0.572	<0.2	**56.9**	**71.3**	**62.1**	**68.4**	**76.9**	**69.2**	**56**	<0.5	<0.5	<0.34	<0.572	<0.572	<0.2	5.0	0.5
n-Butylbenzene	µg/l	ND	ND	ND	ND	<1.39	<1.39	<0.2	ND	ND	ND	ND	1.74	1.42	0.66[J]	ND	ND	ND	ND	<1.39	<1.39	<0.2	ND	ND	ND	ND	1.43	1.43	0.76	ND	ND	ND	<1.39	0.63	<0.2	NS	NS
sec-Butylbenzene	µg/l	ND	ND	ND	ND	<0.921	<0.921	<0.25	ND	ND	ND	ND	1.59	1.55	0.92	ND	ND	ND	ND	<0.921	<0.921	<0.25	ND	ND	ND	ND	1.03	1.33	0.97	ND	ND	ND	2.33	2.03	<0.25	NS	NS
1,1-Dichloroethane	µg/l	<5.0	<5.0	<5.0	<5.0	<0.598	<0.598	<0.5	<5.0	<5.0	<5.0	<5.0	<0.598	<0.598	<0.5	<5.0	<5.0	NA	<5.0	<0.598	<0.598	<0.5	<5.0	<5.0	<5.0	<5.0	<0.598	<0.598	<0.5	<5.0	<5.0	<5.0	<0.598	<0.598	<0.5	850	85
1,2-Dichloroethane	µg/l	<0.5	<0.5	<0.5	<0.387	<0.587	<0.587	<0.5	<0.5	<0.5	<0.5	<0.387	<0.587	<0.587	<0.5	<0.5	<0.5	NA	<0.387	<0.587	<0.587	<0.5	<0.5	<0.5	<0.5	<0.387	<0.587	<0.587	<0.5	<0.5	<0.5	<0.387	<0.587	<0.587	<0.5	5.0	0.5
1,1-Dichloroethene	µg/l	<0.5	<0.5	<0.5	<0.451	<0.639	<0.639	<0.5	<0.5	<0.5	<0.5	<0.451	<0.639	<0.639	<0.5	<0.5	<0.5	NA	<0.451	<0.639	<0.639	<0.5	<0.5	<0.5	<0.5	<0.451	<0.639	<0.639	<0.5	<0.5	<0.5	<0.451	<0.639	<0.639	<0.5	7.0	0.7
cis-1,2-Dichloroethene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.795	<0.795	<0.5	<5.0	<5.0	<5.0	<5.0	<0.795	<0.795	<0.5	<5.0	<5.0	NA	<5.0	<0.795	<0.795	<0.5	<5.0	<5.0	<5.0	<5.0	<0.795	<0.795	<0.5	<5.0	<5.0	<5.0	<0.795	<0.795	<0.5	70	7.0
trans-1,2-Dichloroethene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.573	<0.573	<0.5	<5.0	<5.0	<5.0	<5.0	<0.573	<0.573	<0.5	<5.0	<5.0	NA	<5.0	<0.573	<0.573	<0.5	<5.0	<5.0	<5.0	<5.0	<0.573	<0.573	<0.5	<5.0	<5.0	<5.0	<0.573	<0.573	<0.5	100	20
Ethylbenzene	µg/l	<10	<5.0	<5.0	<5.0	<0.506	<0.506	<0.5	<10	<5.0	<5.0	<5.0	<0.506	<0.506	<0.5	<10	<5.0	NA	<5.0	<0.506	<0.506	<0.5	<10	<5.0	<5.0	<5.0	<0.506	<0.506	<0.5	<5.0	<5.0	<5.0	<0.506	<0.506	<0.5	700	140
Isopropylbenzene	µg/l	ND	ND	ND	ND	<0.562	<0.562	<0.2	ND	ND	ND	ND	2.63	<0.562	2.9	ND	ND	ND	ND	<0.562	<0.562	<0.2	ND	ND	ND	ND	3.29	<0.562	3.4	ND	ND	ND	5.54	<0.562	<0.2	NS	NS
Methyl tert-butyl ether	µg/l	<0.29	<0.29	<0.29	<0.405	<0.668	<0.668	<0.5	<0.29	<0.29	<0.29	<0.405	<0.668	<0.668	<0.5	<0.29	<0.29	NA	<0.405	<0.668	<0.668	<0.5	0.91	1.1	<0.29	<0.405	0.98	<0.668	<0.5	<0.29	<0.29	<0.405	<0.668	<0.668	<0.5	60	12
Methylene chloride	µg/l	NA	NA	NA	**4.47**	<1.46	**12**	<1.0	NA	NA	NA	**3.79**	<1.46	**10.5**	<1.0	NA	NA	NA	**2.94**	<1.46	**11.5**	<1.0	NA	NA	NA	**3.84**	<1.46	**10.9**	<1.0	NA	NA	**3.66**	<1.46	**11.6**	<1.0	5.0	0.5
Naphthalene	µg/l	<8.0	<8.0	<8.0	<8.0	<0.535	<0.535	<0.25	<8.0	<8.0	<8.0	<8.0	<0.535	<0.535	0.28[J]	<8.0	<8.0	NA	<8.0	<0.535	<0.535	<0.25	<8.0	<8.0	<8.0	<8.0	<0.535	<0.535	<0.25	<8.0	<8.0	<8.0	<0.535	<0.535	<0.25	40	8.0
n-Propylbenzene	µg/l	ND	ND	ND	ND	<0.765	<0.765	<0.5	ND	ND	ND	ND	3.02	2.61	3.0	ND	ND	ND	ND	<0.765	<0.765	<0.5	ND	ND	ND	ND	1.69	2.87	1.4[J]	ND	ND	ND	1.07	0.63	<0.5	NS	NS
Tetrachloroethane	µg/l	<0.5	<0.5	<0.5	<0.295	<0.63	<0.63	<0.5	<0.5	<0.5	<0.5	<0.295	<0.63	<0.63	<0.5	<0.5	<0.5	NA	<0.295	<0.63	<0.63	<0.5	<0.5	<0.5	<0.5	<0.295	<0.63	<0.63	<0.5	<0.5	<0.5	<0.295	<0.63	<0.63	<0.5	5.0	0.5
Toluene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.567	<0.567	<0.2	<5.0	<5.0	<5.0	<5.0	<0.567	<0.567	<0.2	<5.0	<5.0	NA	<5.0	<0.567	<0.567	<0.2	<5.0	<5.0	<5.0	<5.0	1.23	1.33	0.92	<5.0	<5.0	<5.0	<0.567	<0.567	<0.2	1,000	200
Trichloroethene	µg/l	<0.5	<0.5	<5.0	<0.495	<0.734	<0.734	<0.2	<0.5	<0.5	<0.5	<0.495	<0.734	<0.734	<0.2	<0.5	<0.5	NA	<0.495	<0.734	<0.734	<0.2	<0.5	<0.5	<0.5	<0.495	<0.734	<0.734	<0.2	<0.5	<0.5	<0.495	<0.734	<0.734	<0.2	5.0	0.5
1,2,4-Trimethylbenzene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.803	<0.803	<0.2	<5.0	<5.0	<5.0	<5.0	<0.803	<0.803	<0.2	<5.0	<5.0	NA	<5.0	<0.803	<0.803	<0.2	<5.0	<5.0	<5.0	<5.0	<0.803	<0.803	0.3[J]	<5.0	<5.0	<5.0	<0.803	<0.803	<0.2	**	**
1,3,5-Trimethylbenzene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.628	<0.628	<0.2	<5.0	<5.0	<5.0	<5.0	<0.628	<0.628	<0.2	<5.0	<5.0	NA	<5.0	<0.628	<0.628	<0.2	<5.0	<5.0	<5.0	<5.0	<0.628	<0.628	<0.2	<5.0	<5.0	<5.0	<0.628	<0.628	<0.2	**	**
Total Trimethylbenzene	µg/l	<5.0	<5.0	<5.0	<5.0	<0.803	<0.803	<0.2	<5.0	<5.0	<5.0	<5.0	<0.803	<0.803	<0.2	<5.0	<5.0	NA	<5.0	<0.803	<0.803	<0.2	<5.0	<5.0	<5.0	<5.0	<0.803	<0.803	0.3	<5.0	<5.0	<5.0	<0.803	<0.803	<0.2	480	96
Vinyl Chloride	µg/l	<0.217	<0.217	<0.217[G28]	<0.306	<1.25	<1.25	<0.2	<0.217	<0.217	<0.217[G28]	<0.306	<1.25	<1.25	<0.2	<0.217	<0.217	NA	<0.306	<1.25	<1.25	<0.2	<0.217	<0.217	<0.217[G28]	<0.306	<1.25	<1.25	<0.2	<0.217	<0.217[G28]	<0.306	<1.25	<1.25	<0.2	0.2	0.02
Total Xylenes	µg/l	<5.0	<5.0	<5.0	<5.0	<1.43	<1.43	<0.5	<5.0	<5.0	<5.0	<5.0	<1.43	<1.43	<0.5	<5.0	<5.0	NA	<5.0	<1.43	<1.43	<0.5	<5.0	<5.0	<5.0	<5.0	<1.43	1.32	<0.5	<5.0	<5.0	<5.0	<1.43	0.57	<0.5	10,000	1,000
Polynuclear Aromatic Hydrocarbons																																					
Acenaphthene	µg/l	<5.0	<5.0	<5.0	NA	NA	0.0228	<0.33	<5.0	<5.0	<5.0	NA	NA	1.27	0.49[J]	<5.0	<5.0	NA	NA	NA	0.0623	<0.34	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.33	<5.0	<5.0	NA	NA	1.8	<0.33	NS	NS
Acenaphthylene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.7	<5.0	18.7	19.9	NA	NA	26.3	<0.71	<5.0	<5.0	NA	NA	NA	5.15	<0.7	18.9	<5.0	12	NA	NA	13.4	<0.7	10.8	7.66	NA	NA	14.5	<0.69	NS	NS
Anthracene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.038	<5.0	<5.0	<5.0	NA	NA	0.0752	<0.039	<5.0	<5.0	NA	NA	NA	0.0948	<0.039	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.038	<5.0	<5.0	NA	NA	<5.0	<0.038	3,000	600
Benzo(a)anthracene	µg/l	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.044	<0.1	<0.1	<0.1	NA	NA	0.0307	<0.045	<0.1	<0.1	NA	NA	NA	0.0177	<0.045	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.044	<0.1	<0.1	NA	NA	<0.1	<0.044	NS	NS
Benzo(b)fluoranthene	µg/l	<0.02	<0.02	<0.02	NA	NA	<0.02	<0.099	<0.02	<0.02	<0.02	NA	NA	<0.02	<0.1	<0.02	<0.02	NA	NA	NA	<0.02	<0.1	<0.02	<0.02	0.023	NA	NA	<0.02	<0.099	<0.02	<0.02	NA	NA	<0.02	<0.098	0.2	0.02
Benzo(k)fluoranthene	µg/l	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.049	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.051	<0.1	<0.1	NA	NA	NA	<0.1	<0.05	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.049	<0.1	<0.1	NA	NA	<0.1	<0.049	NS	NS
Benzo(a)pyrene	µg/l	<0.02	<0.02	<0.02	NA	NA	<0.02	<0.032	<0.02	<0.02	<0.02	NA	NA	<0.02	<0.033	<0.02	<0.02	NA	NA	NA	<0.02	<0.033	<0.02	<0.02	<0.02[011]	NA	NA	<0.02	<0.032	<0.02	<0.02	NA	NA	<0.02	<0.032	0.2	0.02
Benzo(ghi)perylene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.12	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.12	<5.0	<5.0	NA	NA	NA	<5.0	<0.12	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.12	<5.0	<5.0	NA	NA	<5.0	<0.12	NS	NS
Chrysene	µg/l	<0.02	<0.02	<0.02	NA	NA	<0.02	<0.041	<0.02	<0.02	<0.02	NA	NA	0.0643	<0.042	<0.02	<0.02	NA	NA	NA	0.0398	<0.042	0.102	<0.02	0.0512	NA	NA	0.0588	<0.041	<0.02	<0.02	NA	NA	0.00874	<0.041	40	8.0
Dibenzo(a,h)anthracene	µg/l	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.13	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.13	<0.1	<0.1	NA	NA	NA	<0.1	<0.13	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.13	<0.1	<0.1	NA	NA	<0.1	<0.13	NS	NS
Fluoranthene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.082	<5.0	<5.0	<5.0	NA	NA	0.832	<0.084	<5.0	<5.0	NA	NA	NA	<5.0	<0.083	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.082	<5.0	<5.0	NA	NA	1.54	0.11[J]	400	80
Fluorene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.063	<5.0	<5.0	<5.0	NA	NA	2.56	1.9	<5.0	<5.0	NA	NA	NA	<5.0	<0.063	<5.0	<5.0	<5.0	NA	NA	0.648	<0.063	<5.0	<5.0	NA	NA	3.11	<0.062	400	80
Indeno(1,2,3-cd)pyrene	µg/l	<0.2	<0.2	<0.2	NA	NA	<0.2	<0.063	<0.2	<0.2	<0.2	NA	NA	<0.2	<0.064	<0.2	<0.2	NA	NA	NA	<0.2	<0.063	<0.2	<0.2	<0.2	NA	NA	<0.2	<0.063	<0.2	<0.2	NA	NA	<0.2	<0.062	NS	NS
1-Methylnaphthalene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.32	<5.0	24.8	24.2	NA	NA	17.3	20	<5.0	6.7	NA	NA	NA	<5.0	<0.33	17.1	<5.0	14.7	NA	NA	18.6	<0.32	8.26	12	NA	NA	12.1	<0.32	NS	NS
2-Methylnaphthalene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.31	<5.0	6.37	17.8	NA	NA	7.88	15	<5.0	<5.0	NA	NA	NA	1.07	<0.32	8.55	<5.0	<5.0	NA	NA	0.177	<0.31	<5.0	<5.0	NA	NA	2.83	<0.31	NS	NS
Naphthalene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.4	<5.0	<5.0	<5.0	NA	NA	0.759	<0.41	<5.0	<5.0	NA	NA	NA	1.07	<0.41	<5.0	<5.0	<5.0	NA	NA	0.672	<0.4	<5.0	<5.0	NA	NA	1.98	<0.4	NS	NS
Phenanthrene	µg/l	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.03	<5.0	<5.0	<5.0	NA	NA	0.195	<0.031	<5.0	<5.0	NA	NA	NA	0.0619	<0.031	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.03	<5.0	<5.0	NA	NA	0.956	0.04[J]	NS	NS
Pyrene	µg/l	<5.0	<5.0	<5.0	NA	NA	0.159	<0.044	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.045	<5.0	<5.0	NA	NA	NA	<5.0	<0.045	<5.0	<5.0	<5.0	NA	NA	<5.0	<0.044	<5.0	<5.0	NA	NA	0.122	0.049[J]	250	50
Natural Attenuation Parameters																																					
Nitrate/Nitrite	mg/l	<0.05	<0.05	0.123	0.102	<0.05	0.016	NA	<0.05	<0.05	0.149	0.065	0.061	<0.05	NA	<0.095	<0.05	NA	0.205	0.066	<0.05	NA	<0.14	<0.05	0.166	ND	<0.05	<0.05	NA	0.093	0.208	0.106	0.074	<0.05	NA	10,000	2,000
Sulfate	mg/l	44.4	<10	32.3	ND	54.6	47.1	NA	20.5	25.1	<10	ND	<10	4.71	NA	29.4	<10	NA	43.2	<10	47.1	NA	32.3	<10	<10	ND	<10	4.7	NA	<10	<10	ND	<10	4.94	NA	NS	NS
Manganese	mg/l	0.775	1.18	1.05	1.07	NA	0.831	NA	0.63	1.03	1.28	1.03	NA	1.01	NA	0.625	1.07	NA	1.09	NA	0.711	NA	0.512	0.902	0.913	0.957	NA	0.803	NA	0.651	0.554	0.5	NA	0.469	NA	NS	NS

Notes:

J = Results reported between the Method Detection Limit and Limit of Quantitation are less certain than results at or above the LOQ.
011 = The check standard that corresponds to this sample met the SW846 method requirements. However, it should be noted that the recovery for this individual compond in the check standard was below 85%.
G28 = The recovery of this Calibration Check Compound (CCC) in the check standard is above the method specified acceptance criteria
µg/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million)
NA = Not Analyzed NS = No Standard
NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
Exceedances: BOLD = concentration exceeds Chapter NR 140 PAL
BOX = concentration exceeds Chapter NR 140 ES

5/23/2006

Table 2
Groundwater Analytical Results

MM-SB-2			MM-SB-4	MM-SB-6			MM-SB-7			MM-SB-8	MM-SB-9	MM-SB-10		
'0618 /2007	W070827 8/27/2007	W122007 12/21/2007	W070618 6/18/2007	W070618 6/18/2007	W070827 8/27/2007	W122007 12/20/2007	W070618 6/18/2007	W070827 8/27/2007	W122007 12/21/2007	W070618 6/18/2007	W070618 6/18/2007	W070618 6/18/2007	W070828 8/27/2007	W122007 12/21/2007
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NA	NA	NA	NA	2.44	2.3	5.64	NA	NA	NA	NA	NA	1.87	0.9	<0.60
NA	NA	NA	NA	178	NA	NA	NA	NA	NA	NA	NA	94.8	NA	NA
NA	NA	NA	NA	<0.20	NA	NA	NA	NA	NA	NA	NA	<0.20	NA	NA
NA	NA	NA	NA	<1.6	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	NA
NA	NA	NA	NA	1.71	0.88	0.32	NA	NA	NA	NA	NA	1.09	NA	NA
NA	NA	NA	NA	<0.60	NA	NA	NA	NA	NA	NA	NA	<0.60	NA	NA
NA	NA	NA	NA	<0.20	NA	NA	NA	NA	NA	NA	NA	<0.20	NA	NA
NA	NA	NA	NA	<0.070	NA	NA	NA	NA	NA	NA	NA	<0.070	NA	NA
.95	7.55	9.29	<0.20	2.71	0.83	4.59	28	32.5	36.4	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<1.0	1.33	<1.00	<1.0	<1.0	NA	NA	<1.0	1.94	<1.00	<1.0	<1.0	<1.0	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	0.48	0.46	0.57	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.20	NA	<0.20	<0.20	<0.20	NA	NA	<0.20	9.77	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
1.8	7.96	9.53	<0.10	<0.10	NA	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA
<0.60	<0.60	<0.60	<0.60	<0.60	NA	NA	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	NA	NA
<0.20	<0.20	0.39	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.30	<0.30	<0.30	<0.30	<0.30	NA	NA	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	NA	NA
.68	3.99	3.85	<0.10	<0.10	NA	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	NA	NA
.43	2.89	2.03	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.80	<0.80	<0.80	<0.80	<0.80	NA	NA	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	NA	NA
<0.20	0.53	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.80	1.25	0.96	<0.80	<0.80	NA	NA	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	NA	NA
<0.30	<0.30	<0.30	<0.30	<0.30	NA	NA	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	NA	NA
<0.20	<0.20	0.38	<0.20	<0.20	NA	NA	0.68	0.82	1.03	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.40	<0.40	<0.40	<0.40	<0.40	NA	NA	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	NA	NA
<0.30	<0.30	0.80	<0.30	<0.30	NA	NA	<0.30	1.61	1.42	<0.30	<0.30	<0.30	NA	NA
<0.20	<0.20	0.23	<0.20	<0.20	NA	NA	1.76	1.27	NA	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	0.22	0.24	0.42	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.10	0.32	0.34	<0.10	<0.10	<0.10	0.13	0.57	0.57	0.42	<0.10	<0.10	<0.10	NA	NA
<1.0	<1.0	<1.00	<1.0	<1.0	NA	NA	<1.0	<1.0	<1.00	<1.0	<1.0	<1.0	NA	NA
.25	11.6	<0.20	0.5	1.09	NA	NA	8.97	<0.20	1.53	0.28	0.21	35	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
.25	2.23	1.86	<0.10	<0.10	NA	NA	8.97	9.45	7.78	<0.10	<0.10	<0.10	NA	NA
<0.40	<0.40	<0.40	<0.40	<0.40	NA	NA	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	NA	NA
<0.20	<0.20	<0.20	<0.20	0.41	<0.20	1.94	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<1.0	9.55	<1.00	<1.0	<1.0	NA	NA	<1.0	<1.0	<1.00	<1.0	<1.0	<1.0	NA	NA
.19	2.72	1.76	<0.10	<0.10	NA	NA	19.2	20	16.9	<0.10	<0.10	<0.10	NA	NA
<0.30	<0.30	<0.30	<0.30	<0.30	NA	NA	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	NA	NA
<0.30	<0.30	<0.30	<0.30	<0.30	NA	NA	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	NA	NA
<0.40	0.66	0.66	<0.40	<0.40	<0.40	<0.40	0.98	1.09	1.03	<0.40	<0.40	<0.40	NA	NA
<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.30	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
0.61	12.74	8.07	<0.40	<0.40	<0.40	<0.40	14	11.91	21.59	<0.40	<0.40	<0.40	NA	NA
<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	0.9	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA
1.29	10.65	8.67	<0.60	<0.60	<0.60	<0.60	1.19	1.27	1.72	<0.60	<0.60	<0.60	NA	NA
.182	NA	NA	<0.071	<0.071	NA	NA	<1.26	NA	NA	<0.080	<0.067	<0.067	NA	NA
<0.067	NA	NA	<0.071	<0.071	NA	NA	<1.26	NA	NA	<0.080	<0.067	<0.067	NA	NA
<0.100	NA	NA	<0.106	<0.106	NA	NA	<0.095	NA	NA	<0.120	<1.0	<1.0	NA	NA
<0.111	NA	NA	<0.118	<0.118	NA	NA	<0.105	NA	NA	<0.133	<0.111	<0.111	NA	NA
<0.022	NA	NA	<0.024	<0.024	NA	NA	<0.021	NA	NA	<0.027	<0.022	<0.022	NA	NA
<0.022	NA	NA	<0.024	<0.024	NA	NA	<0.421	NA	NA	<0.027	<0.022	<0.022	NA	NA
<0.067	NA	NA	<0.071	<0.071	NA	NA	<0.063	NA	NA	<0.80	<0.067	<0.067	NA	NA
<0.078	NA	NA	<0.082	<0.082	NA	NA	<0.074	NA	NA	<0.093	<0.078	<0.078	NA	NA
<0.022	NA	NA	<0.024	<0.024	NA	NA	<0.021	NA	NA	<0.027	<0.022	<0.022	NA	NA
<0.122	NA	NA	<0.129	<0.129	NA	NA	<0.116	NA	NA	<0.147	<0.122	<0.122	NA	NA
<0.133	NA	NA	<0.141	<0.141	NA	NA	<0.126	NA	NA	<0.160	<0.133	<0.133	NA	NA
<0.133	NA	NA	<0.141	<0.141	NA	NA	<2.53	NA	NA	<0.160	<0.133	<0.133	NA	NA
<0.133	NA	NA	<0.141	<0.141	NA	NA	<0.126	NA	NA	<0.160	<0.133	<0.133	NA	NA
<0.089	NA	NA	<0.094	<0.094	NA	NA	94.1	NA	NA	<0.107	<0.089	<0.089	NA	NA
<0.122	NA	NA	<0.129	<0.129	NA	NA	<0.116	NA	NA	<0.147	<0.122	<0.122	NA	NA
<0.122	NA	NA	<0.129	<0.129	NA	NA	<0.116	NA	NA	<0.147	<0.122	<0.122	NA	NA
<0.122	NA	NA	<0.129	<0.129	NA	NA	<0.116	NA	NA	<0.147	<0.122	<0.122	NA	NA
<0.111	NA	NA	<0.118	<0.118	NA	NA	<2.11	NA	NA	<0.133	<0.1111	<0.1111	NA	NA

TABLE 4
STATIC GROUNDWATER ELEVATIONS
MERCURY MARINE
PLANT 64 WEST
Project Reference #8494

Monitoring Well Identification	Date	Ground Surface Elevation (feet MSL)	Top of Casing Elevation (feet MSL)	Well Screen Interval (feet MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet MSL)
MW-1	06/25/2004	750.27	749.82	3-13	3.31	746.51
	08/26/2004				4.29	745.53
	11/15/2004				4.69	745.13
	05/09/2005				4.77	745.05
	09/20/2005				4.65	745.17
	11/30/2005				4.58	745.24
	03/24/2006				4.90	744.92
MW-2	06/25/2004	750.07	749.65	3-13	3.00	746.65
	08/26/2004				4.05	745.60
	11/15/2004				4.29	745.36
	05/09/2005				4.28	745.37
	09/20/2005				4.36	745.29
	11/30/2005				4.07	745.58
	03/24/2006				4.25	745.40
MW-3	06/25/2004	749.5	749.14	3-13	2.74	746.40
	08/26/2004				3.85	745.29
	11/15/2004				NA	NA
	05/09/2005				4.29	744.85
	09/20/2005				4.22	744.92
	11/30/2005				4.13	745.01
	03/24/2006				4.35	744.79
MW-4	06/25/2004	748.77	748.46	2.5-12.5	1.74	746.72
	08/26/2004				2.71	745.75
	11/15/2004				2.88	745.58
	05/09/2005				3.00	745.46
	09/20/2005				3.07	745.39
	11/30/2005				3.08	745.38
	03/24/2006				3.22	745.24
64W97-9	08/26/2004	NA	748.53	3.5-13.5	2.71	745.82
	11/15/2004				2.98	745.55
	05/09/2005				2.86	745.67
	09/20/2005				2.72	745.81
	11/30/2005				2.53	746.00
	03/24/2006				2.61	745.92
River	06/25/2004		749.39		2.71	746.68
	08/26/2004				3.65	745.74
	11/15/2004				NA	NA
	05/09/2005				4.08	745.31
	09/20/2005				3.97	745.42
	11/30/2005				4.02	745.37
	03/24/2006				4.53	744.86

Notes:

feet MSL = feet above Mean Sea Level
feet from TOC = feet below top of casing
feet bgs = feet below ground surface
NA = Not Analyzed

STS CONSULTANTS

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RIGHT-OF-WAY

January 16, 2007

Mr. David L. Patek
City of Oshkosh Director of Public Works
Room 204, City Hall,
215 Church Avenue
Oshkosh, Wisconsin 54901

Re: Right-of-Way Notification of Soil Contamination, Marion Road Right-of-Way, 400 Marion Road, Oshkosh, Wisconsin -- WDNR BRRTS No. 02-71-516785 – Commerce No. 54901-4720-00 – STS Project No. 426678XA

Dear Mr. Patek:

STS Consultants has prepared this notification of contamination letter on behalf of the City of Oshkosh (current site owner) as requested by the Wisconsin Department of Natural Resources (WDNR) under section NR 726.05(2)(a)4 of the Wisconsin Administrative Code. This notification of contamination letter is required by the WDNR as a condition for case closure.

Petroleum hydrocarbon contamination was identified along the Marion Road right-of-way on the northwest side of the Mercury Marine Plant 64 property during utility construction in April 2003. STS Consultants (STS) collected samples of the impacted material on behalf of the City of Oshkosh and submitted them for laboratory analysis of diesel range organics (DRO), gasoline range organics (GRO), and petroleum volatile organic compounds (PVOCs). DRO and GRO concentrations were reported above the WDNR NR 720 residual contaminant levels (RCLs). Subsequent soil investigation and groundwater monitoring have taken place on the site since April 2003 by Mercury Marine which also confirms the presence of residual PAH and lead soil contamination within the Marion Road right-of-way.

We have attached copies of Figure 3 and Figure 5 from our closure request, which depict recent groundwater and soil quality data.

Please contact Ms. Suzanne M. Murawski at (920) 236-6715 with any questions or comments regarding this request.

Sincerely,

STS CONSULTANTS, LTD.

Suzanne M Murawski, P.E.
Associate Project Engineer

Enclosure:
Figures 3 – Soil Results Diagram
Figures 5 – Groundwater Quality Map