

**GIS REGISTRY**  
**Cover Sheet**

May, 2009  
(RR 5367)

**Source Property Information**

CLOSURE DATE: Dec 15, 2009

**BRRTS #:** 02-41-543065  
**ACTIVITY NAME:** Miller Brewing CO Visitor Center  
**PROPERTY ADDRESS:** 4315 W. State St.  
**MUNICIPALITY:** Milwaukee  
**PARCEL ID #:** 386-0211-112-9

**FID #:** 341112310  
**DATCP #:**  
**COMM #:**

**\*WTM COORDINATES:**

**WTM COORDINATES REPRESENT:**

X: 685543 Y: 287487

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

- Approximate Center Of Contaminant Source  
 Approximate Source Parcel Center

**Please check as appropriate: (BRRTS Action Code)**

**Contaminated Media:**

Groundwater Contamination > ES (236)

Soil Contamination > \*RCL or \*\*SRCL (232)

Contamination in ROW

Contamination in ROW

Off-Source Contamination

Off-Source Contamination

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

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

**Land Use Controls:**

N/A (Not Applicable)

Cover or Barrier (222)

Soil: maintain industrial zoning (220)

*(note: maintenance plan for  
groundwater or direct contact)*

*(note: soil contamination concentrations  
between non-industrial and industrial levels)*

Vapor Mitigation (226)

Structural Impediment (224)

Maintain Liability Exemption (230)

Site Specific Condition (228)

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

**Monitoring Wells:**

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

Yes  No  N/A

*\* Residual Contaminant Level*

*\*\*Site Specific Residual Contaminant Level*

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 #: 02-41-543065

PARCEL ID #: 386-0211-112-9

ACTIVITY NAME: MillerCoors Visitor Center

WTM COORDINATES: X: 385543 Y: 287487

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

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

**SOURCE LEGAL DOCUMENTS**

**Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.  
*Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*

**Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).

Figure #: Title:

**Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

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

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

**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 Topographic Map

**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 #: C-1 Title: Thickness of Fill and Extent of Soil RCL Exceedances in Soil & Figure 20 - Site Lay out and sample locations

**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 #: C-1 Title: Thickness of Fill and Extent of Soil RCL Exceedances in Soil

BRRTS #: 02-41-543065

ACTIVITY NAME: MillerCoors Visitor Center

**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 #: E-1 Title: **Groundwater Exceedances August 2006**

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

Figure #: E-5 Title: **Groundwater Elevations August 2006**

Figure #: Title:

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

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

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

Table #: C-1 Title: **Soil Laboratory 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 #: E-1 and E-2 Title: **Groundwater Analytical Results - Select VOCs and Metals (E-1) -PAHs (E-2)**

**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 #: E-4 Title: **Groundwater Measurements and 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 #: 02-41-543065

ACTIVITY NAME: MillerCoors Visitor Center

**NOTIFICATIONS**

**Source Property** N/A

- 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** N/A

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

- Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.  
**Note:** Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.  
**Number of "Off-Source" Letters:**
- Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.
- Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies)**. This does not apply to right-of-ways.  
**Note:** If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).  
**Number of "Governmental Unit/Right-Of-Way Owner" Letters:**



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Matthew J. Frank, Secretary  
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters  
2300 N. Dr. Martin Luther King, Jr. Drive  
Milwaukee, Wisconsin 53212-0436  
Telephone 414-263-8500  
FAX 414-263-8716  
TTY 414-263-8713

December 15, 2009

Ms. Audrey Templeton  
MillerCoors  
3939 W. Highland Blvd.  
Milwaukee, WI 53208

File Ref: BRRTS#02-41-543065  
FID#341112310

**SUBJECT:** Final Case Closure with Continuing Obligations  
Miller Brewing Co Visitor Center (now MillerCoors Visitor Center)  
4315 W. State St., Milwaukee, Wisconsin

Dear Ms. Templeton:

On May 18, 2009, the Wisconsin Department of Natural Resources (DNR) reviewed the above referenced case for closure. The DNR reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On May 18, 2009, the DNR requested additional documentation information from your consultant AECOM via an electronic mail message.

On November 13, 2009, the Department received information or documentation indicating that you have complied with the requirements for final closure. Specifically, revised maps, additional data assessment, a barrier maintenance plan, and monitor well abandonment forms were received.

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

### GIS Registry

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

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- Pavement, an engineered cover or a soil barrier must be maintained over contaminated soil and the state must approve any changes to this barrier

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

## Closure Conditions

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

**Cover or Barrier:** Residual soil contamination remains at **adjacent to and south of the existing Visitor Center building** as indicated **on the attached cap maintenance plan map** and in the information submitted to the Department of Natural Resources. Pursuant to s. 292.12(2)(a), Wis. Stats., the pavement or other impervious cap that currently exists in the location shown on the attached map shall be maintained in compliance with the **attached maintenance plan** in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. If soil in the specific locations described above is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

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

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

## Vapor Migration

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

### Chapter NR 140, Wis. Adm. Code Exemption

Groundwater monitoring data at this site indicates that for lead at MW-1, and benzo(a)pyrene, benzo(b)fluoranthene, and chrysene at MW-3, contaminant levels exceed the NR 140 preventive action limit (PAL) but are below the enforcement standard (ES). The Department may grant an exemption to a PAL for a substance of public health concern, other than nitrate, pursuant to s. NR 140.28(2)(b), Wis. Adm. Code, if all of the following criteria are met:

1. The measured or anticipated increase in the concentration of the substance will be minimized to the extent technically and economically feasible.
2. Compliance with the PAL is either not technically or economically feasible.
3. The enforcement standard for the substance will not be attained or exceeded at the point of standards application. [Note: at this site the point of standards application is all points where groundwater is monitored.]
4. Any existing or projected increase in the concentration of the substance above the background concentration does not present a threat to public health or welfare.

Based on the information you provided, the Department believes that these criteria have been or will be met. Specifically, the levels have been just above the PAL during the sampling history, and the site is covered with pavement or a building, reducing infiltration. Therefore, pursuant to s. NR 140.28, Wis. Adm. Code, an exemption to the PAL is granted for lead at MW-1 and benzo(a)pyrene, benzo(b)fluoranthene and chrysene at MW-3. Please keep this letter, because it serves as your exemption.

### Post-Closure Notification Requirements

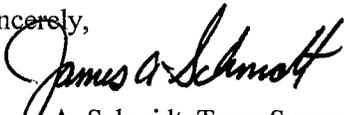
In accordance with ss. 292.12 and 292.13, Wis. Stats., you must notify the Department before making changes that affect or relate to the conditions of closure in this letter. For this case, examples of changed conditions requiring prior notification include, but are not limited to:

- Disturbance, construction on, change or removal in whole or part of pavement, an engineered cover or a soil barrier that must be maintained over contaminated soil

Please send written notifications in accordance with the above requirements to **Department of Natural Resources Remediation & Redevelopment Program, Southeast Region, 2300 N. ML King Jr. Dr., Milwaukee, WI 53212**, to the attention of **Ms. Victoria Stovall, Program Associate**.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact **Pam Mylotta** at **(414) 263-8758**.

Sincerely,

  
James A. Schmidt, Team Supervisor  
Southeast Region Remediation & Redevelopment Program

Attachments: "Cap Maintenance Plan, August 2009"

cc: Bill Phelps – WDNR, DG/5

## **CAP MAINTENANCE PLAN**

August 2009

4315 West State Street  
Milwaukee, Wisconsin

Tax Parcel ID # 386-0211-112-9

WDNR BRRTS # 02-41-543065

### **INTRODUCTION**

This document is the Maintenance Plan for a direct contact and infiltration barrier at the above referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing building, pavement and landscaping covering the historic fill soil present at the property listed above.

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

- The case file in the Wisconsin Department of Natural Resources (WDNR) Southeast Region office;
- BRRTS on the Web (the WDNR internet based data base of contaminated sites): <http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=brrts2>; and
- The WDNR project manager for Milwaukee County.

Historic fill soils containing petroleum-related impact is present at the site from below the existing pavement, building and landscaping to a depth of up to 12 feet. The historic fill soils are composed primarily of foundry sand and cinders from old railroad spur tracks. Detected concentrations of volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs) exceeding residual contaminant levels (RCLs) were encountered in the fill soils. Detected VOCs primarily exceeded only the soil to groundwater pathway RCLs, except for one direct contact RCL exceedance of benzene at boring B-2. Detected concentrations of PAHs generally exceeded the direct contact RCLs. The extent of impacted historic fill soils is shown in Figure G-1, Area of Cap.

### **DESCRIPTION OF THE CAP TO BE MAINTAINED**

The cap over the historic fill soils is composed of all the site development features. These include the Visitor Center building (12%), the concrete and asphalt paved areas (80%) and landscaping (8%). The landscaping includes trees, grass, perennial flowers, shrubs and raised annual flower beds. The subject property layout is depicted on Figure G-1, Area of Cap.

The cap overlying the historic fill soils that have impacts above RCLs serves as a barrier to prevent direct human contact with the residual soil contamination that might otherwise pose a threat to human health. The cap also acts as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR

140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

## **ANNUAL INSPECTION**

The cap overlying the historic fill as shown in Figure G-1 will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause additional infiltration into or direct contact with the underlying historic fill soils. The inspection 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 or where infiltration from the surface will not be effectively minimized will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Table 1, Cap Inspection Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be kept at the address of the property owner and available for submittal or inspection by the WNR representatives at their request.

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the property owner must inform maintenance workers of the direct contact exposure hazard and afford them the opportunity to obtain appropriate personal protection equipment. The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the cap is removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WDNR or its successor.

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

## **PROHIBITION OF ACTIVITIES AND NOTIFICATION OF WDNR PRIOR TO ACTIONS AFFECTING THE CAP**

The following activities are prohibited on any portion of the property where pavement, building or landscape is required as shown on the attached map; unless prior written approval has been obtained from the WDNR:

1. removal of the existing barrier;
2. replacement with another barrier;

3. excavating or grading of the land surface;
4. filling on capped or paved areas;
5. plowing for agricultural cultivation; or
6. construction or placement of a building or other structure.

### **AMENDMENT OF WITHDRAWAL OF MAINTENANCE PLAN**

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

#### Contact Information

Questions regarding this maintenance plan or the environmental conditions of the subject site should contact:

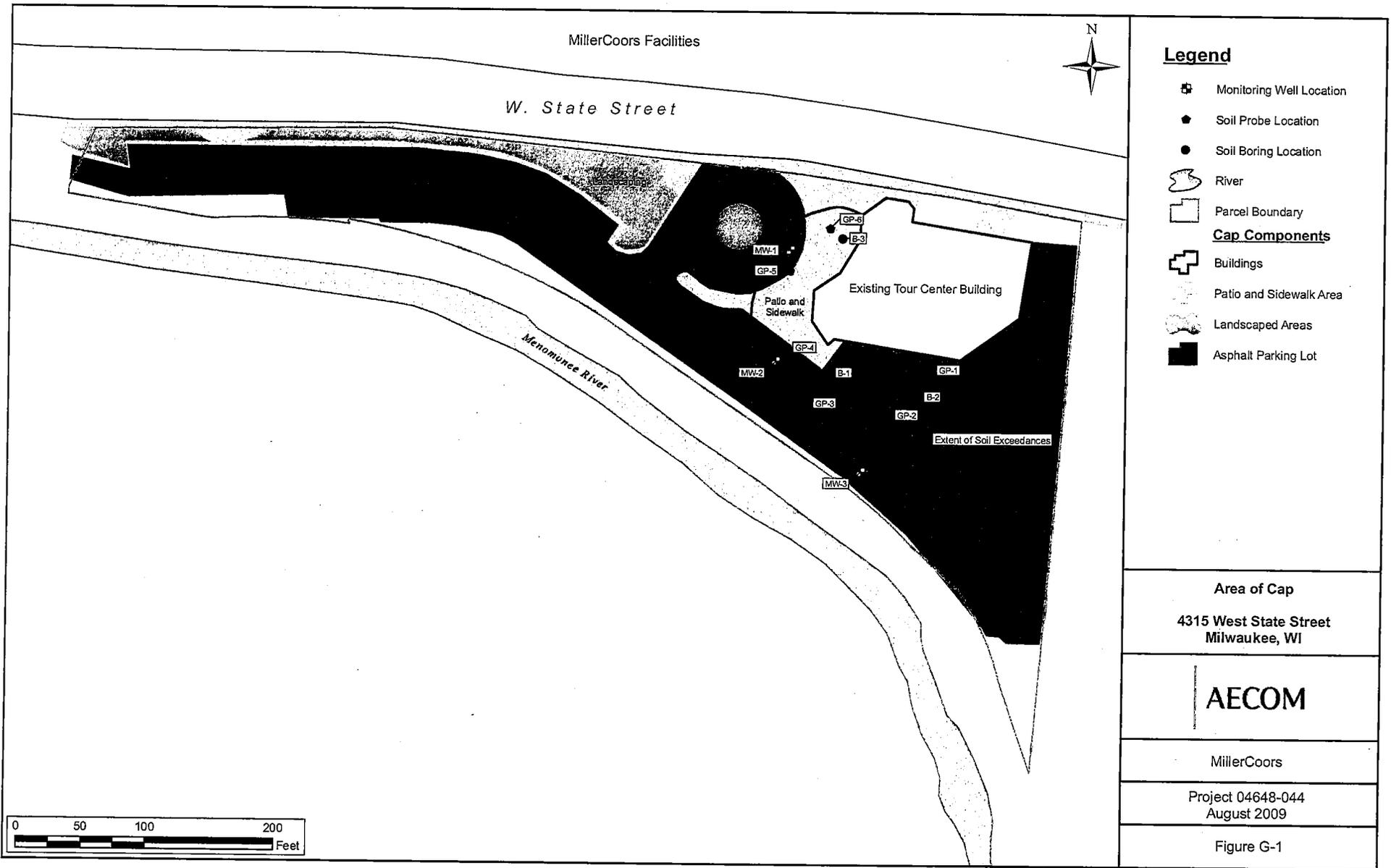
Ms. Audrey Templeton  
MillerCoors  
3939 West Highland Boulevard  
Milwaukee, WI 53201-0482

#### Plan prepared by:

Lanette Altenbach, P.G., C.P.G.  
AECOM  
11425 West Lake Park Drive  
Milwaukee, WI 53224

August 27, 2009

Attachments:           Figure G-1 – Area of Cap  
                              Table 1 – Cap Maintenance Log



MillerCoors Facilities



W. State Street

**Legend**

- Monitoring Well Location
- Soil Probe Location
- Soil Boring Location
- River
- Parcel Boundary
- Cap Components**
- Buildings
- Patio and Sidewalk Area
- Landscaped Areas
- Asphalt Parking Lot

MW-1

GP-5

GP-6

B-3

Existing Tour Center Building

Patio and Sidewalk

MW-2

B-1

GP-1

GP-3

B-2

GP-2

Extent of Soil Exceedances

MW-3

Menomonee River

Area of Cap

4315 West State Street  
Milwaukee, WI

**AECOM**

MillerCoors

Project 04648-044  
August 2009

Figure G-1

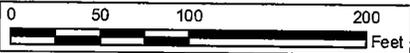






EXHIBIT A

LEGAL DESCRIPTION

PARCEL A:

That part of Lot 2, in Block 1, in Assessor's Plat No. 125, being a part of the Northeast 1/4 of Section 26 and Northwest 1/4 of Section 25, Township 7 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin, bounded and described as follows:

Commencing at a point in the East line of said Northeast 1/4 of Section 26, 472.40 feet South 0° 08' 30" West of the Northeast corner of said 1/4 Section; running thence South 54° 19' 30" West (measured along the Northwesterly line of Lot 1, Block 2 in said Assessor's Plat No. 125) 141.82 feet to the place of beginning of the parcel about to be described, said point also being the Northeast corner of said Lot 2, Block 1, of Assessor's Plat No. 125, continuing thence South 54° 19' 30" West along the Northwest line of said Lot 2, 356.60 feet to a point thence West along the North line of said Lot 2, 78.85 feet to a point; thence South 319.38 feet to a point; thence South 0° 46' 30" West, 150.00 feet to a point in the North line of West State Street, said point being 375.68 feet Easterly of and measured along the North line of West State Street from the East line of North 46th Street as now layed out; thence South 89° 13' 30" East along the North line of West State Street, 56.81 feet to an angle point; thence South 83 ° 40' 50" East, 313.90 feet to the place of intersection of the East line of said Lot 2 and the North line of West State Street; thence North 0 ° 08' 30" East along the East line of said Lot 2, which line is 115.0 feet West of and parallel to the East line of said Northeast 1/4 of Section 26, 712.66 feet to the place of beginning.

Tax Parcel No. 386-0202-200-2

FOR INFORMATIONAL PURPOSES ONLY: 4400 W. State Street

PARCEL B:

Parcel 1:

That part of Lot 3 in Block 1 in Assessor's Plat No. 125, being a part of the Northeast 1/4 of Section 26 and Northwest 1/4 of Section 25, in Township 7 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin.

Parcel 2:

All excepting the North 40 feet of Lots 11, 12 and 13 in Block 6, in Highland Heights, being a Subdivision of a part of Block 5, Angermaier's Subdivision No. 1 and a part of the Northeast 1/4 of Section 26, Township 7 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin.

Parcel 3:

That part of Lot 2 in Block 1 in Assessor's Plat No. 125, being a part of the Northeast 1/4 of Section 26 and the Northwest 1/4 of Section 25, in Township 7 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin, lying Northerly of the Northerly line of West State Street and Westerly of the Westerly line of the following described premises: That part of Lot 2 in Block 1, in Assessor's Plat No. 125, being a part of the Northeast 1/4 of Section 26 and Northwest 1/4 of Section 25, in Township 7 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin, bounded and described as follows: Commencing at a point in the East line of said Northeast 1/4 of Section 26, 472.40 feet South 0 ° 08' 30" West of the Northeast corner of said 1/4 Section; running thence South 54° 19' 30" West (measured along the Northwesterly line of Lot 1, Block 2 in said Assessor's Plat No. 125) 141.82 feet to the place of beginning of the parcel about to be described, said point also being the Northeast corner of

said Lot 2, Block 1, of Assessors Plat No. 125, continuing thence South 54° 19' 30" West along the Northwest line of said Lot 2, 356.60 feet to a point thence West along the North line of said Lot 2, 78.85 feet to a point; thence South 319.38 feet to a point; thence South 0° 46' 30" West, 150.00 feet to a point in the North line of West State Street, said point being 375.68 feet Easterly of and measured along the North line of West State Street from the East line of North 46th Street as now laid out; thence South 89° 13' 30" East along the North line of West State Street, 56.81 feet to an angle point; thence South 83° 40' 50" East, 313.90 feet to the place of intersection of the East line of said Lot 2 and the North line of West State Street; thence North 0° 08' 30" East along the East line of said Lot 2, which line is 115.0 feet West of and parallel to the East line of said Northeast 1/4 of Section 26, 712.66 feet to the place of beginning.

Tax Parcel No. 386-0203-100-1

FOR INFORMATIONAL PURPOSES ONLY: 4430 W. State Street

PARCEL C:

Parcel 1:

That part of Lot 8, Block 2, Assessor's Plat No. 125 lying within the Northeast 1/4 of Section 26 and the Northwest 1/4 of Section 25; Town 7 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin, bounded and described as follows, to-wit:

Commencing at the point of intersection of the South line of West State Street with the East line of said Northeast 1/4 of Section 26, said point being 1357.00 feet South 0° 08' 30" West of the Northeast corner of said 1/4 section; running thence South 78° 53' 50" East on and along said South line of West State Street 97.48 feet to a point; thence South 6° 43' 00" West along the West right-of-way of the Chicago, Milwaukee, St. Paul and Pacific Railroad, said line also being the Easterly line of said Lot 8, Block 2, of Assessor's Plat No. 125, 455.70 feet to a point on the left bank of the Menomonee River; thence Northwesterly along a meander line (all of the points describing said meander line lying 1.5 feet North of the South edge of a stone wall along the left bank of the Menomonee River) North 17° 51' 00" West 93.00 feet to a point; thence North 23° 18' 30" West 50.00 feet to a point; thence North 32° 25' 00" West 35.00 feet to a point; thence North 39° 45' 30" West 35.00 feet to a point; thence North 47° 36' 30" West 35.00 feet to a point; thence North 51° 39' 00" West, 200.00 feet to a point; thence North 56° 27' 00" West 70.00 feet to a point; thence North 34° 26' 30" East, 99.29 feet to a point; thence Northwesterly along a curved line parallel to and 12.00 feet Southwesterly of the centerline of said railroad spur track (said curved line having its center to the Northeast and a chord 78.49 feet in length which bears North 46° 15' 10" West) to a point in the South line of West State Street; thence South 83° 40' 50" East along said South line of West State Street 171.38 feet to an angle point; continuing thence South 78° 53' 50" east along said South line 120.58 feet to the point of commencement, EXCEPTING therefrom the following described parcel:

Commencing at the point of intersection of the South line of West State Street with the west line of said Northwest 1/4 of Section 25, said point being 1357.00 feet South 0° 08' 30" West of the Northwest corner of said 1/4 Section; running thence South 78° 53' 50" East on and along said South line of West State Street 97.48 feet to a point; thence South 6° 43' 00" West along the West right-of-way line of the Chicago, Milwaukee, St. Paul and Pacific Railroad, said line also being the Easterly line of said Lot 8, Block 2, of Assessor's Plat No. 125, 150 feet to a point; thence North 78° 53' 50" West to a point on the West line of said Northwest 1/4 of Section 25; thence North on and along said West line of said Northwest 1/4 of Section 25 to the point of commencement.

Parcel 2:

Part of Lot 8, in Block 2 in Assessor's Plat No. 125, being a part of the Northeast 1/4 of Section 26 and Northwest 1/4 of Section 25, in Town 7 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin, being a parcel of land in the Northeast 1/4 of Section 26, Town 7 North, Range 21

East, bounded and described as follows: Commencing at the Northeast corner of the said 1/4 Section; running thence South along the East line of said 1/4 Section, 1360 feet to the point of intersection of the center line of West State Street; thence North 79° 15' West, along the center line of said Street, 117.05 feet to an angle point; thence North 84° 04' 15" West, along the center line of the said street, 315.70 feet to an angle point; and thence South 3° 11' 15" West, 33.15 feet to an angle point in the Southerly line of said Street, being the point of beginning of the land to be described; running thence South 84° 04' 15" East, along the Southerly line of West State Street 145.89 feet to a point, said point being in the Westerly line of property described in Warranty Deed Document No. 3886829; thence Southeasterly along said Westerly line and along the arc of a curve which is 12.00 feet Southwesterly of and parallel to the center line of a railroad spur track, the center of the arc being Easterly and the chord bearing South 47° 25' 20" East, 78.49 feet to a point; thence South 33° 59' 45" West along said Westerly line 99.29 feet to a point on wall along the Menomonee River; thence Northwesterly along a wall along the Northeasterly side of the said River, being approximately along a line bearing North 67° 56' 42" West, 189.32 feet to a point; thence North 7° 23' 15" West, along the East line of a building, 81.00 feet to a point in the Southerly line of West State Street; and thence South 89° 53' 15" East, along the Southerly line of said Street, 42.26 feet to the place of beginning.

Parcel 3:

That part of Lot 9, Block 2, in Assessors Plat No. 125, all in the Northeast 1/4 of Section 26, Town 7 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin, which is bounded and described as follows: Commencing at a point in the center line of the Watertown Road (now known as West State Street), said point being North 83° 21' 00" West 490.60 feet from the intersection of the center line of said road with the East line of said Northeast 1/4 of Section 26; thence North 87° 37' 00" West along the center line of said Road 188.88 feet to a point; thence South 11° 31' 00" West along the Easterly line of a public road, 160.80 feet to a point in the Northerly line of a public road; thence South 81° 25' 00" East along the Northerly line of said road, 133.82 feet to a point; thence South 89° 42' 00" East along the Northerly line of said road 88.95 feet to a point; thence South 81° 08' 00" East along the Northerly line of said Road, 21.65 feet to a point; thence North 07° 07' 00" West on a line 175.42 feet to a point of beginning. EXCEPTING therefrom the Northerly 33.00 feet which is reserved for public highway purposes. FURTHER EXCEPTING that part described in Quit Claim Deed recorded on February 26, 1992 in Reel 2723, Image 16, as Document No. 6575182.

Parcel 4:

That part of Lot 8, Block 2, Assessor's Plat No. 125 lying within the Northwest 1/4 of Section 25, Town 7 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin, bounded and described as follows:

to-wit

Commencing at the point of intersection on the South line of West State Street with the West line of said Northwest 1/4 of Section 25, said point being 1357.00 feet South 0° 08' 30" West of the Northwest corner of said 1/4 Section; running thence South 78° 53' 50" East on and along said South line of West State Street 97.48 feet to a point; thence South 6° 43' 00" West along the West right-of-way line of the Chicago, Milwaukee, St. Paul and Pacific Railroad, said line also being the Easterly line of said Lot 8, Block 2, of Assessor's Plat No. 125, 150 feet to a point; thence North 78° 53' 50" West to a point on the West line of said Northwest 1/4 of Section 25; thence North on and along said West line of said Northwest 1/4 of Section 25 to the point of commencement.

Tax Parcel No. 386-0211-112-9

FOR INFORMATIONAL PURPOSES ONLY: 4315-4429 W. State Street

Miller Brewing Company  
STS Project No. 200804453  
BRRTS #02-41-543065

Date: 3/19/2009

Site Name: MillerCoors Visitor Center

Site Address: 4315 W. State Street

Milwaukee, WI 53208

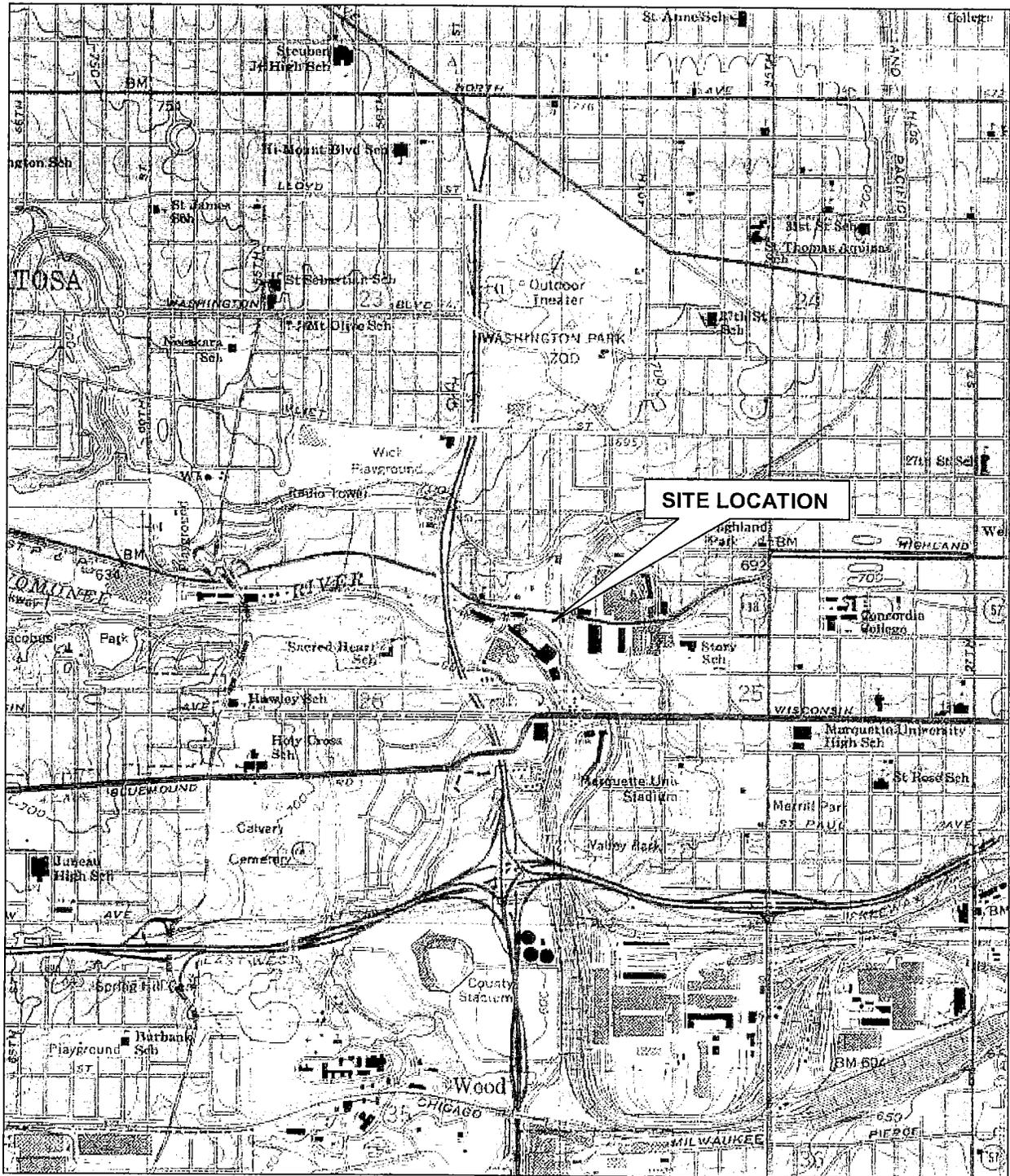
Responsible Party: MillerCoors

Address: 3939 W. Highland Blvd.

Milwaukee, WI 53201

I, the above named responsible party, certify that the attached legal description is complete and accurate for all of the property within or partially within the contaminated site's boundaries that have soil contamination that exceeds generic residual contaminant levels, as determined under ss. NR 720.09, 720.11 and 720.19 at the time of this case closure request.

Audrey Temple  
Signature



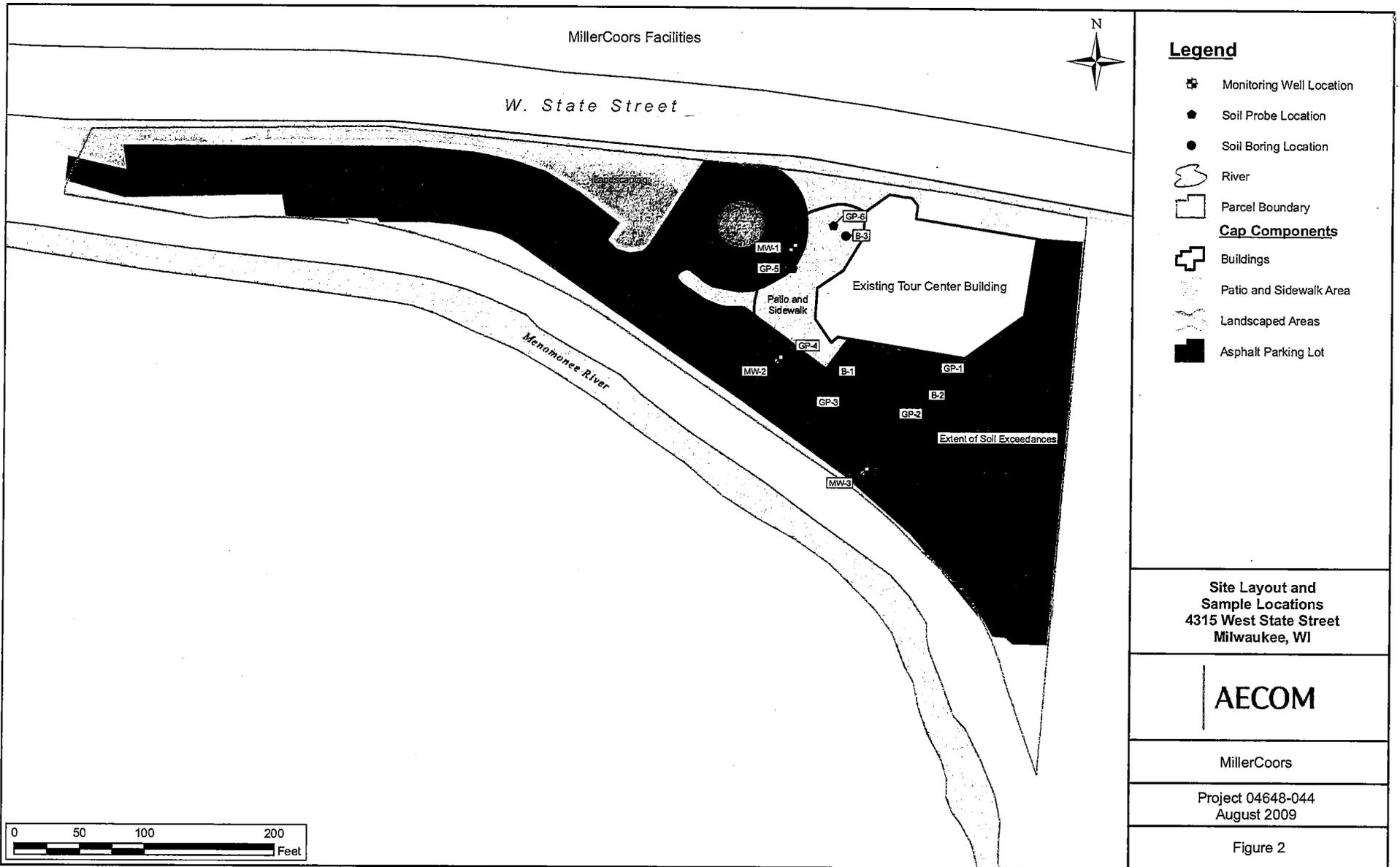
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STS Consultants  
 11425 W. Lake Park Dr.  
 Milwaukee, WI 53224  
 414-359-3030  
[www.stsconsultants.com](http://www.stsconsultants.com)  
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SITE TOPOGRAPHIC MAP  
 MILLERCOORS VISITOR CENTER  
 WEST STATE STREET  
 MILWAUKEE, WISCONSIN 53208

Drawn:	TPW 3/16/2005
Checked:	LLA 3/15/2005
Approved:	JMT 3/15/2005
PROJECT NUMBER	200804453
FIGURE NUMBER	1



MillerCoors Facilities



W. State Street

**Legend**

- Monitoring Well Location
- Soil Probe Location
- Soil Boring Location
- River
- Parcel Boundary
- Cap Components**
- Buildings
- Patio and Sidewalk Area
- Landscaped Areas
- Asphalt Parking Lot

**Cap Components**

- Buildings
- Patio and Sidewalk Area
- Landscaped Areas
- Asphalt Parking Lot

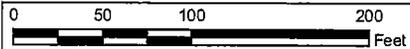
Site Layout and  
Sample Locations  
4315 West State Street  
Milwaukee, WI

**AECOM**

MillerCoors

Project 04648-044  
August 2009

Figure 2



# WEST STATE STREET

SIDEWALK



PATIO

GP-6  
(8')  
1-2' AND  
8-10' bgs  
PAHs

B-3  
(11')  
3.5-5' bgs  
DRO

MW-1  
(6')  
14-16' bgs  
DRO  
GRO

CONCRETE  
PAVEMENT

EXISTING TOUR  
CENTER BUILDING

GP-5  
(5.5')  
NO EXCEEDANCES

EXTENT OF SOIL  
EXCEEDANCES

NO EXCEEDANCES

MW-2  
(12')  
1-2' bgs  
DRO  
GRO  
VOCs  
PAH

GP-4  
(8')  
2-3' AND  
6-7' bgs  
DRO  
GRO  
VOCs  
PAH

B-1  
(10.5')  
1-2' bgs  
DRO  
VOCs  
PAH

GP-1  
(6.5')

B-2  
(12')  
1-3.5' bgs  
BENZENE  
PAHs

ASPHALT  
PARKING

GP-3  
(8')  
2-3' bgs  
BENZENE  
PAH

GP-2  
(10.75')  
1-2' bgs  
PAH  
DRO

MW-3  
(12')  
1-2' bgs  
DRO  
PAH

GUARD RAIL/  
EDGE OF PAVEMENT



**LEGEND**

- GP SOIL PROBE LOCATION
- MW MONITORING WELL LOCATION
- B SOIL BORING LOCATION
- (6') THICKNESS OF FILL IN FEET

ANALYTE OR GROUP OF ANALYTES EXCEEDING RESIDUAL CONTAINMENT LEVELS(RCL) AND DEPTH OF SAMPLE. SEE TABLE 2

bgs = BELOW GROUND SURFACE  
 DRO = DIESEL RANGE ORGANIC  
 GRO = GASOLINE RANGE ORGANIC  
 VOCs = VOLATILE ORGANIC COMPOUNDS  
 PAHs = POLYCYCLIC AROMATIC HYDROCARBONS

**STS | AECOM**

THICKNESS OF FILL AND EXTENT  
OF RCL EXCEEDANCES IN SOIL  
MILLER VISITOR CENTER  
4315 WEST STATE STREET  
MILWAUKEE, WISCONSIN

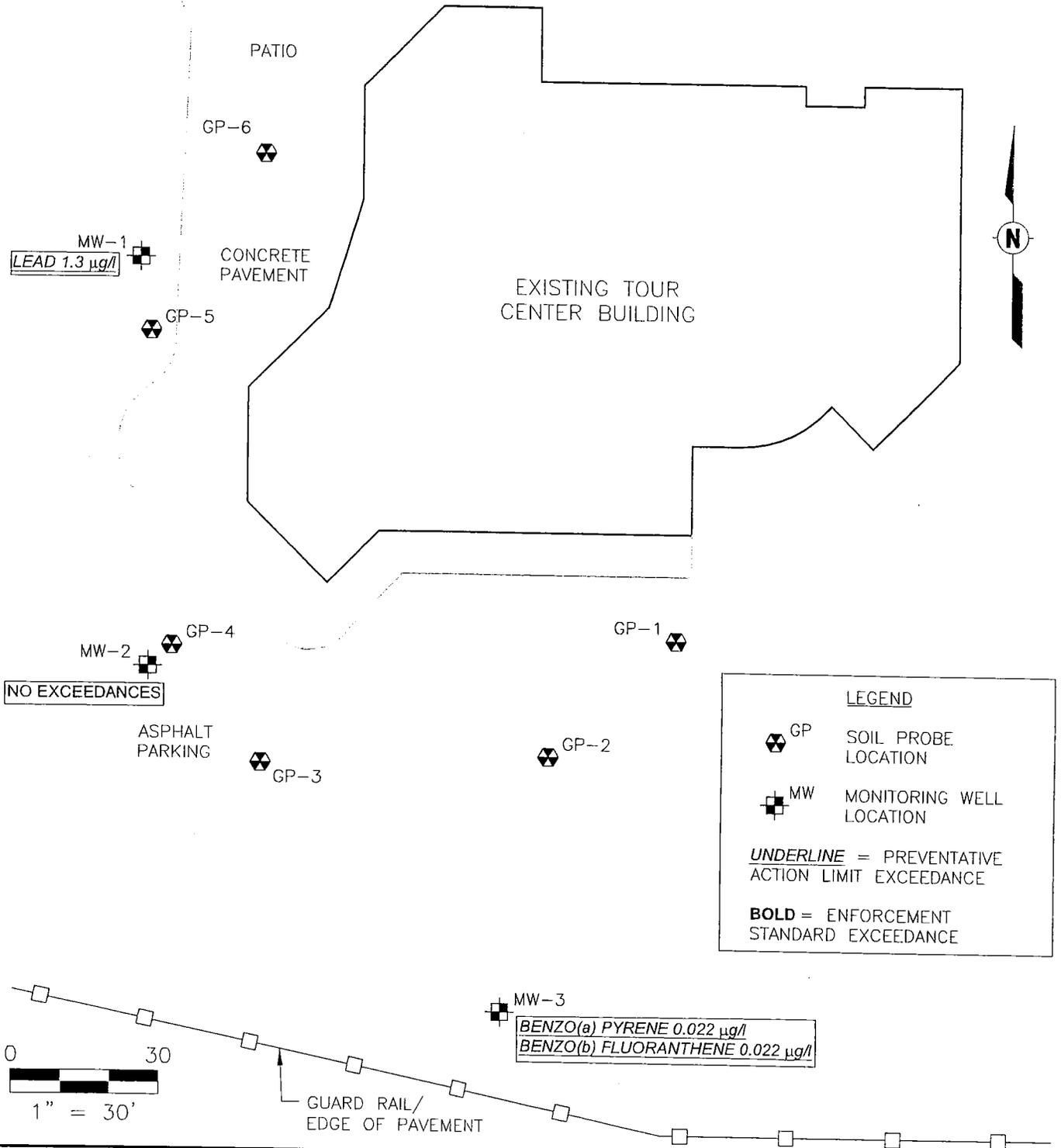
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Drawn:	PDD	12/15/2006
Checked:	LLA	12/15/2006
Approved:	LLA	12/18/2006
PROJECT NUMBER	200804453	
FIGURE NUMBER	C-1	

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# WEST STATE STREET

SIDEWALK



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**STS | AECOM**

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## GROUNDWATER EXCEEDANCES AUGUST 2006 MILLER VISITOR CENTER 4315 WEST STATE STREET MILWAUKEE, WISCONSIN

Drawn :	PDD 12/15/2006
Checked:	LLA 12/15/2006
Approved:	LLA 12/18/2006
PROJECT NUMBER	200804453
FIGURE NUMBER	E-1

# WEST STATE STREET

SIDEWALK

PATIO

GP-6

B-3

MW-1  
(596.62)

CONCRETE  
PAVEMENT

GP-5

EXISTING TOUR  
CENTER BUILDING



MW-2  
(596.59)

GP-4

B-1

GP-1  
B-2

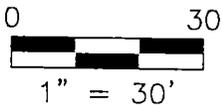
ASPHALT  
PARKING

GP-3

595

GP-2

594



GUARD RAIL/  
EDGE OF PAVEMENT

MW-3  
(593.13)

593

LEGEND	
	GP SOIL PROBE LOCATION
	MW MONITORING WELL LOCATION
(1928)	ELEVATION IN FEET MEAN SEA LEVEL NGRP (1928)
- 594 -	GROUNDWATER CONTOUR INTERVAL= 1 FOOT
	INFERRED FLOW DIRECTION

**STS**

11425 W. Lake Park Drive  
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GROUNDWATER ELEVATIONS  
AUGUST 2006  
MILLER VISITOR CENTER  
4315 WEST STATE STREET  
MILWAUKEE, WISCONSIN

Drawn:	PDD 12/15/2006
Checked:	LLA 12/15/2006
Approved:	LLA 12/15/2006
PROJECT NUMBER	200804453
FIGURE NUMBER	E-5

X:\Projects\200804453\dwg\G200804453-E-5.dwg: 12/3/2008 2:12:23 PM; HEINTZ, CHARLES; STS\_BLACK\_0410102\_HALF.ctb

TABLE C-1  
 SOIL LABORATORY ANALYTICAL RESULTS  
 MILLER VISITOR CENTER, 4315 WEST STATE STREET, MILWAUKEE, WI  
 STS PROJECT NO. 5-87857XB

Parameters	Generic RCLs			B-1	B-1	B-2	B-2	B-3	B-3	GP-1	GP-1	GP-2	GP-2	GP-3	GP-3	GP-4	GP-4
	Non-Industrial	Industrial	Groundwater Pathway	1-2.5 bgs 3/3/2005	16-17.5 bgs 3/3/2005	1-3.5 bgs 3/3/2005	16-17.5 bgs 3/3/2005	3.5-5 bgs 3/3/2005	13.5-15 bgs 3/3/2005	1-2 Feet 6/14/2005	15-16 Feet 6/14/2005	1-2 Feet 6/14/2005	15-16 Feet 6/14/2005	2-3 Feet 6/21/2005	13-14 Feet 6/21/2005	2-3 Feet 6/21/2005	6-7 Feet 6/21/2005
PID/FID	-	-	-	824	10.6	0.3	4.4	0.7	1.3	0	0	0	0	0.5	0.2	1999	87
Metals (mg/kg)																	
Cadmium	8	510	-	NP	NP	NP	NP	NP	NP	0.21 <sup>o</sup>	0.17 <sup>o</sup>	0.31	0.078 <sup>d</sup>	0.14 <sup>o</sup>	<0.077	0.29	1.2
Chromium	16,000	-	-	NP	NP	NP	NP	NP	NP	19	5.2	9.3	4.9	9.7	3.6	9.1	8.2
Lead	50	500	-	NP	NP	NP	NP	NP	NP	6.9	6.7	23	3.7	6.2	3.1	59 <sup>A</sup>	520 <sup>AB</sup>
DRO (mg/kg)	-	-	100/250 <sup>d</sup>	1,890 <sup>c</sup>	61.6	16.5	58.6	5370 <sup>c</sup>	156 <sup>c</sup>	<3.5	5.0	240 <sup>c</sup>	<3.9	14	<4.1	9,000 <sup>c</sup>	2,600 <sup>c</sup>
GRO (mg/kg)	-	-	100/250 <sup>d</sup>	NP	NP	NP	NP	NP	NP	3.1	<2.6	<2.9	<2.6	<3.0	<2.6	4,500 <sup>c</sup>	500 <sup>c</sup>
VOCs (µg/kg)																	
Benzene	1,100 <sup>d</sup>	52,000	5.5 <sup>d</sup>	1,800 <sup>AC</sup>	<25	88.4 <sup>c</sup>	<25	<25	<25	<25	<25	<25	<25	120 <sup>c</sup>	<25	<1000	240 <sup>CO</sup>
n-Butylbenzene	-	-	-	5,420	711	<25	<25	<25	<25	NP	NP	NP	NP	NP	NP	NP	NP
tert-Butylbenzene	-	-	-	2,040	<25	<25	<25	<25	<25	NP	NP	NP	NP	NP	NP	NP	NP
Ethylbenzene	1,560,000	102,000,000	2900 <sup>d</sup>	14,300 <sup>c</sup>	127	27.9	<25	<25	<25	<25	<25	<25	<25	<25	<25	32,000 <sup>e</sup>	1300
Isopropylbenzene	-	-	-	3,890	893	<25	<25	<25	<25	NP	NP	NP	NP	NP	NP	NP	NP
p-Isopropyltoluene	-	-	-	7,620	141	<25	<25	<25	<25	NP	NP	NP	NP	NP	NP	NP	NP
Methyl-tert-butyl-ether	-	-	-	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<1000	<50
Naphthalene	313,000	20,400,000	400	12,800 <sup>c</sup>	<25	216	<25	202	<25	NP	NP	NP	NP	NP	NP	NP	NP
n-Propylbenzene	-	-	-	6,270	1380	59.4	<25	57.5	<25	NP	NP	NP	NP	NP	NP	NP	NP
Toluene	3,130,000	204,000,000	1500 <sup>d</sup>	2,820 <sup>c</sup>	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<1000	<50
1,2,4-Trimethylbenzene <sup>1</sup>	782,000	51,100,000	7573	58,300	61.8	72.7	<25	60.9	<25	<25	<25	<25	<25	<25	<25	130,000 <sup>e</sup>	3600
1,3,5-Trimethylbenzene <sup>1</sup>	782,000	51,100,000	3520	3,800	<25	26.0	<25	<25	<25	<25	<25	<25	<25	<25	<25	68,000 <sup>c</sup>	5800 <sup>c</sup>
Xylenes, -o	3,130,000	2,040,000,000	4100 <sup>d</sup>	NP	NP	NP	NP	NP	NP	<25	<25	<25	<25	<25	<25	15,000 <sup>e</sup>	<50
Xylenes, -m,p	313,000	204,000,000	4100 <sup>d</sup>	NP	NP	NP	NP	NP	NP	<50	<50	<50	<50	<50	<50	80,000 <sup>e</sup>	3300
Xylenes, total	313,000	204,000,000	4100 <sup>d</sup>	27,100	322	248	<25	117	<25	NA	NA	NA	NA	NA	NA	NA	NA
PAHs (µg/L)																	
Acenaphthene	900,000	60,000,000	38,000	250	<97.6	<121	<107	<141	<109	<4.0	<3.9	<26	<3.8	19	<1.7	9,200	9,400
Acenaphthylene	18,000	380,000	700	359	<195	<242	<214	<283	<217	<3.2	<3.1	<21	<2.8	<6.7	<5.8	1,100 <sup>CO</sup>	1,500 <sup>c</sup>
Anthracene	5,000,000	300,000,000	3,000,000	187	<97.6	<121	<107	<141	<109	<3.0	<2.9	210	<2.8	120	4.6 <sup>d</sup>	36,000	20,000
Benzo(a)anthracene	88	3,900	17,000	405 <sup>A</sup>	<48.8	65	<53.5	<70.7	<54.3	<3.6	<3.6	1,100 <sup>A</sup>	3.6 <sup>d</sup>	330 <sup>A</sup>	<13	57,000 <sup>ABC</sup>	33,000 <sup>ABC</sup>
Benzo(a)pyrene	8.8	390	48,000	599 <sup>AB</sup>	<48.8	93 <sup>A</sup>	<53.5	10 <sup>A</sup>	<5.43	<3.8	<3.7	1,400 <sup>AB</sup>	<3.6	400 <sup>AB</sup>	<11	69,000 <sup>ABC</sup>	39,000 <sup>AB</sup>
Benzo(b)fluoranthene	88	3,900	360,000	456 <sup>A</sup>	<48.8	<69.6	<53.5	<70.7	<54.3	<2.4	<2.3	1,400 <sup>A</sup>	<2.3	310 <sup>A</sup>	<8.6	54,000 <sup>ABC</sup>	34,000 <sup>AB</sup>
Benzo(g)h)perylene	1,800	39,000	6,800,000	135	<97.6	<121	<107	<141	<109	<5.0	<4.8	470	<4.7	140	6.9 <sup>d</sup>	29,000 <sup>ABC</sup>	19,000 <sup>A</sup>
Benzo(k)fluoranthene	880	39,000	870,000	290	<97.6	<121	<107	<141	<109	<4.4	<4.3	1,400 <sup>A</sup>	<4.1	310	<11	56,000 <sup>AB</sup>	33,000 <sup>A</sup>
Chrysene	8,800	390,000	37,000	538	<97.6	<121	<107	<141	<109	<3.2	<3.1	1,100	6.1 <sup>d</sup>	320	<12	60,000 <sup>AC</sup>	33,000 <sup>A</sup>
Dibenzo(a,h)anthracene	8.8	390	38,000	46 <sup>A</sup>	<4.88	6	<5.35	<7.07	<5.43	<5.3	<5.1	87 <sup>A</sup>	<5.0	34 <sup>A</sup>	<3.5	8,000 <sup>AB</sup>	5,000 <sup>AB</sup>
Fluoranthene	600,000	40,000,000	600,000	994	<97.6	125	<107	<141	<109	<3.7	<3.6	1,700	9.8 <sup>d</sup>	610	16	120,000	68,000
Fluorene	600,000	40,000,000	100,000	196	<97.6	<121	<107	<141	<109	<3.2	<3.1	<21	<3.0	14	1.4	12,000	10,000
Indeno(1,2,3-cd)pyrene	88	3,900	680,000	822 <sup>A</sup>	<48.8	135 <sup>A</sup>	<53.5	<70.7	<54.3	<6.3	<6.1	230 <sup>A</sup>	<6.0	160 <sup>A</sup>	5.9	31,000 <sup>AB</sup>	19,000 <sup>AB</sup>
1-Methylnaphthalene	1,100,000	70,000,000	23,000	2,540	<97.6	<121	<107	<141	<109	<4.0	<3.8	<25	<3.7	5.6	<2.4	22,000	30,000 <sup>c</sup>
2-Methylnaphthalene	600,000	40,000,000	20,000	464	<97.6	<121	<107	<141	<109	<4.5	<4.0	28	<3.9	7.1	<2.4	33,000 <sup>c</sup>	37,000 <sup>c</sup>
Naphthalene	20,000	110,000	400	2130	<97.6	<121	<107	<141	<109	<4.3	<4.2	54	<4.1	15	<2.6	29,000 <sup>AC</sup>	33,000 <sup>AC</sup>
Phenanthrene	18,000	390,000	1,800	560	<97.6	<121	<107	<141	<109	<3.2	<3.1	420	9.0 <sup>d</sup>	260	13	76,000 <sup>AC</sup>	48,000 <sup>AC</sup>
Pyrene	500,000	30,000,000	8,700,000	619	<97.6	<121	<107	<141	<109	<3.0	<2.8	2,800	8.4 <sup>d</sup>	660	16	97,000	63,000

Notes:  
 DRO = Diesel Range Organics  
 GRO = Gasoline Range Organics  
 PVOCs = Petroleum Volatile Organic Compounds  
 PAHs = Polynuclear Aromatic Hydrocarbons  
 - No Generic RCL established.  
<sup>1</sup> Standards are for 1,2,4- and 1,3,5-Trimethylbenzene combined.  
 NA - Not Applicable-Individual xylene isomers reported  
<sup>o</sup> Detected concentration between the method detection limit and the practical quantitation limit and is therefore, estimated.

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-882  
<sup>A</sup> Parameter exceeds NR 720 Generic RCL for Non-Industrial Direct Contact.  
<sup>B</sup> Parameter exceeds NR 720 Generic RCL for Industrial Direct Contact.  
<sup>C</sup> Parameter exceeds NR 720 Generic RCL for Groundwater Pathway.  
<sup>D</sup> Generic RCL is established under NR 720 or NR 746, dual standard for GRO & DRO is based on soil type and distance between contaminated soil and groundwater. 100 is for more permeable soils and shallow groundwater; 250 is for low permeability soil with at least 9 feet of separation to groundwater.  
<sup>E</sup> Generic RCLs provided in Soil Cleanup Levels for PAHs Interim Guidance, WDNR RR-5 1997

TABLE C-1  
SOIL LABORATORY ANALYTICAL RESULTS  
MILLER VISITOR CENTER, 4315 WEST STATE STREET, MILWAUKEE, WI  
STS PROJECT NO. 5-87857XB

Parameters	Generic RCLs			GP-5 1-2 Feet 6/14/2005	GP-5 14-15 Feet 6/14/2005	GP-6 1-2 Feet 6/14/2005	GP-6 8-10 Feet 6/14/2005	MW-1, 1-2' 1-2 ft bgs 9/8/2005	MW-1, 14-18' 14-16 ft bgs 9/8/2005	MW-2, 1-2' 1-2 ft bgs 9/9/2005	MW-2, 16-18' 16-18 ft bgs 9/9/2005	MW-3, 1-2' 1-2 ft bgs 9/8/2005	MW-3, 20-21' 20-21 ft bgs 9/8/2005
	Direct Contact Pathway		Groundwater Pathway										
	Non-Industrial	Industrial											
PID/FID	—	—	—	0	166	2.5	3.7	0	301	1063	27.9	0	0
Metals (mg/kg)													
Cadmium	8	510	—	0.15	0.10 <sup>o</sup>	0.46	0.22	0.2	0.088	0.38	0.16	0.21	0.19
Chromium	16,000	—	—	12	5.7	9.9	5.4	12	5.9	21	3.9	11	11
Lead	50	500	—	8.1	12	77 <sup>A</sup>	31	23	8.4	63 <sup>A</sup>	7.7	21	6.1
DRO (mg/kg)	—	—	100/250 <sup>b</sup>	<4.7	13	37	15	5.4	1600 <sup>c</sup>	2400 <sup>c</sup>	21	380 <sup>c</sup>	3.7
GRO (mg/kg)	—	—	100/250 <sup>d</sup>	<2.8	8.2	<2.9	8.4	<2.9	210 <sup>c</sup>	990 <sup>c</sup>	3.3	<2.8	<2.7
VOCs (µg/kg)													
Benzene	1,100 <sup>d</sup>	52,000	5.5 <sup>d</sup>	<25	<25	<25	<25	<25	<100	1000 <sup>c</sup>	<25	<25	<25
n-Butylbenzene	—	—	—	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
tert-Butylbenzene	—	—	—	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Ethylbenzene	1,560,000	102,000,000	2900 <sup>d</sup>	<25	<25	<25	<25	<25	820	5400	<25	<25	<25
Isopropylbenzene	—	—	—	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
p-Isopropyltoluene	—	—	—	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Methyl-tert-butyl-ether	—	—	—	<25	<25	<25	<25	<25	<100	<250	<25	<25	<25
Naphthalene	313,000	20,400,000	400	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
n-Propylbenzene	—	—	—	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Toluene	3,130,000	204,000,000	1500 <sup>d</sup>	<25	<25	<25	<25	<25	<100	820	<25	<25	<25
1,2,4-Trimethylbenzene <sup>1</sup>	782,000	51,100,000	7573	<25	<25	<25	77	<25	2200	25000 <sup>c</sup>	<25	30 <sup>o</sup>	<25
1,3,5-Trimethylbenzene <sup>1</sup>	782,000	51,100,000	3520	<25	27 <sup>o</sup>	<25	<25	<25	1700	8300 <sup>c</sup>	<25	<25	<25
Xylenes, -o	3,130,000	2,040,000,000	4100 <sup>d</sup>	<25	<25	<25	110	<25	770	4200 <sup>c</sup>	<25	<25	<25
Xylenes, -m,p	313,000	204,000,000	4100 <sup>d</sup>	<50	<50	<50	71 <sup>o</sup>	<50	400 <sup>o</sup>	7700 <sup>c</sup>	<50	<50	<50
Xylenes, total	313,000	204,000,000	4100 <sup>d</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAHs (µg/L)													
Acenaphthene	900,000	60,000,000	38,000	<4.1	4.8 <sup>o</sup>	<4.2	<4.3	<4.2	110	350	<3.9	160	<4.1
Acenaphthylene	18,000	350,000	700	<3.2	<3.1	7.7 <sup>o</sup>	10 <sup>o</sup>	<3.4	64	68 <sup>o</sup>	<3.2	<13	<3.2
Anthracene	5,000,000	300,000,000	3,000,000	3.4 <sup>o</sup>	<2.9	18	21	<3.1	31	380	<2.9	350	3.9 <sup>o</sup>
Benzo(a)anthracene	88	3,900	17,000	4.5 <sup>o</sup>	<3.7	99 <sup>A</sup>	92 <sup>A</sup>	<4.0	8.7 <sup>o</sup>	650 <sup>A</sup>	<3.7	870 <sup>A</sup>	4.8 <sup>o</sup>
Benzo(a)pyrene	8.8	390	48,000	<3.9	<3.7	120 <sup>A</sup>	110 <sup>A</sup>	<4.1	4.4 <sup>o</sup>	690 <sup>AB</sup>	<3.7	1200 <sup>AB</sup>	<3.7
Benzo(b)fluoranthene	88	3,900	360,000	<2.4	<2.3	110 <sup>A</sup>	110 <sup>A</sup>	<2.5	6.1 <sup>o</sup>	700 <sup>A</sup>	<2.3	1500	<2.4
Benzo(ghi)perylene	1,800	39,000	6,800,000	<5.1	<4.9	77	78	<5.3	<4.9	200	<4.9	460	<5.1
Benzo(k)fluoranthene	880	39,000	870,000	<4.4	<4.2	130	110	<4.5	<4.2	680	<4.3	1400 <sup>A</sup>	<4.3
Chrysene	8,800	390,000	37,000	7.9 <sup>o</sup>	<3.1	120	110	6.5 <sup>o</sup>	15	690	5.4 <sup>o</sup>	1200	10 <sup>o</sup>
Dibenzo(a,h)anthracene	8.8	390	38,000	<5.4	<5.1	18 <sup>A</sup>	15 <sup>A</sup>	<5.6	<5.2	<45	<5.2	120 <sup>A</sup>	<5.2
Fluoranthene	600,000	40,000,000	500,000	7.3 <sup>o</sup>	<3.6	150	160	<3.9	13	1800	11 <sup>o</sup>	2700	12 <sup>o</sup>
Fluorene	600,000	40,000,000	100,000	<3.3	4.6 <sup>o</sup>	4.2 <sup>o</sup>	6.2 <sup>o</sup>	<3.4	88	420	<3.2	160	<3.2
Indeno(1,2,3-cd)pyrene	88	3,900	680,000	<6.4	<6.1	71	73	<6.7	<6.2	<54	<6.2	300 <sup>A</sup>	<6.3
1-Methylnaphthalene	1,100,000	70,000,000	23,000	<4.0	18	17	9.9 <sup>o</sup>	<4.2	140	5100	<3.9	21 <sup>o</sup>	<3.9
2-Methylnaphthalene	600,000	40,000,000	20,000	<4.2	18	24	14 <sup>o</sup>	<4.4	7.6 <sup>o</sup>	610	<4.1	29 <sup>o</sup>	<4.1
Naphthalene	20,000	110,000	400	<4.4	4.8 <sup>o</sup>	14	13 <sup>o</sup>	<4.6	150	3400 <sup>c</sup>	<4.2	47 <sup>o</sup>	<4.2
Phenanthrene	18,000	390,000	1,600	6.8 <sup>o</sup>	6.4 <sup>o</sup>	56	61	5.2 <sup>o</sup>	28	1400	<3.0	2400 <sup>c</sup>	19
Pyrene	600,000	30,000,000	6,700,000	8.4 <sup>o</sup>	13	150	150	3.2 <sup>o</sup>	32	2100	11	2400	14

Notes:

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PVOCs = Petroleum Volatile Organic Compounds

PAHs = Polynuclear Aromatic Hydrocarbons

— No Generic RCL established.

<sup>1</sup> Standards are for 1,2,4- and 1,3,5-Trimethylbenzene combined.

NA = Not Applicable-individual xylene isomers reported

<sup>o</sup> Detected concentration between the method detection limit and the practical quantitation limit and is therefore, estimated.

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

<sup>A</sup> Parameter exceeds NR 720 Generic RCL for Non-Industrial Direct Contact.

<sup>B</sup> Parameter exceeds NR 720 Generic RCL for Industrial Direct Contact.

<sup>C</sup> Parameter exceeds NR 720 Generic RCL for Groundwater Pathway.

<sup>D</sup> Generic RCL is established under NR 720 or NR 746, dual standard for GRO & DRO is based on soil type and distance between contaminated soil and groundwater. 100 lbs for more permeable soils and shallow groundwater; 250 lbs for low permeability soil with at least 9 feet of separation to groundwater.

<sup>E</sup> Generic RCLs provided in Soil Cleanup Levels for PAHs Interim Guidance, WDNR RR-5 1997

**Table E-1**  
**Groundwater Laboratory Results - Select VOCs and Metals**  
**Miller Visitor Center, Milwaukee, WI**  
**STS Project 5-87857XB**

Well Location	Sample Date	Detected Volatile Organic Compounds (VOCs)														Groundwater Elevation (MSL)	Metals		
		Benzene (ug/L)	Chloro-benzene (ug/L)	Chloro-methane (ug/L)	1,2-Dichloro-benzene (ug/L)	cis-1,2-Dichloro-ethene (ug/L)	Ethyl-benzene (ug/L)	Isopropyl-benzene (ug/L)	n-Butyl-benzene (ug/L)	n-Propyl-benzene (ug/L)	sec-Butyl-benzene (ug/L)	tert-Butyl-benzene (ug/L)	Toluene (ug/L)	Vinyl chloride (ug/L)	Xylene Totals (ug/L)		Cadmium (ug/L)	Chromium (ug/L)	Lead (ug/L)
GP-5 (Temporary Well)	6-14-05	<0.41	<b>0.53</b> <sup>Q</sup>	<0.24	<0.83	<0.83	<0.54	<0.59	<0.93	<0.81	<0.89	<0.97	<0.67	<0.18	<2.63	NM	NT	NT	NT
MW-1		Top of Well Screen in Feet MSL: 599.21																	
	10/1/05	<0.41	1.7	<0.24	1.4 <sup>Q</sup>	<0.83	<0.54	6.7	3.4	16	6.9	<0.97	<0.67	<0.18	<2.63	596.57	<0.4	1.4	5
	2/21/06	<0.41	1.6	0.29	1.3	<0.83	<0.54	4.2	1.9	8.4	3.7	<0.97	<0.67	<0.18	<2.63	597.10	<0.40	0.48	3.6
	5/15/06	<0.41	<0.11	<0.24	<0.83	<0.83	<0.54	<0.59	<0.93	<0.81	<0.89	<0.97	<0.67	<0.18	<2.63	598.36	<0.40	1.6 <sup>A</sup>	<0.40
	8/16/06	<0.41	1.9	<0.24	1.7 <sup>Q</sup>	<0.83	<0.54	5.1	2.1 <sup>Q</sup>	9.8	4.6	<0.97	<0.67	<0.18	<2.63	596.62	<0.40 <sup>A</sup>	1.3 <sup>Q</sup>	1.6 <sup>A</sup>
MW-1 D Duplicate		Top of Well Screen in Feet MSL: 599.21																	
	10/1/05	<0.41	1.7	<0.24	1.6 <sup>Q</sup>	<0.83	<0.54	6.8	3.9	17	7.1	<0.97	<0.67	<0.18	<2.63	596.57	<0.4	1.0 <sup>Q</sup>	4.6
	2/21/06	<0.41	1.7	0.39 <sup>Q</sup>	1.3 <sup>Q</sup>	<0.83	<0.54	4.5	2.0 <sup>Q</sup>	8.8	3.9	<0.97	<0.67	<0.18	<2.63	597.1	NT	NT	NT
	5/15/06	<0.41	<0.41	<0.24	<0.83	<0.83	<0.54	<0.59	<0.93	<0.81	<0.89	<0.97	<0.67	<0.18	<2.63	598.36	NT	NT	NT
	8/16/06	<0.41	1.7	<0.24	1.5 <sup>Q</sup>	1.1 <sup>Q</sup>	<0.54	4.4	1.7 <sup>Q</sup>	8.0	3.7	<0.97	1.1 <sup>Q</sup>	<0.18	<2.63	596.62	NT	NT	NT
MW-2		Top of Well Screen in Feet MSL: 598.88																	
	10/1/05	<0.41	<0.41	<0.24	<0.83	<0.83	<0.54	<0.59	<0.93	<0.81	<0.89	<0.97	<0.67	<0.18	<2.63	596.46	1.4	0.93 <sup>Q</sup>	1.3
	2/21/06	<0.41	<0.41	<0.24	<0.83	<0.83	<0.54	<0.59	<0.93	<0.81	<0.89	<0.97	<0.67	<0.18	<2.63	597.08	<0.40	0.65	<0.40
	5/15/06	<0.41	<0.41	<0.24	<0.83	<0.83	<0.54	<0.59	<0.93	<0.81	<0.89	<0.97	<0.67	<0.18	<2.63	598.87	<0.40	1.2 <sup>QA</sup>	<0.40
	8/16/06	<0.41	<0.41	<0.24	<0.83	<0.83	<0.54	<0.59	<0.93	<0.81	<0.89	<0.97	<0.67	<0.18	<2.63	596.59	<0.40 <sup>A</sup>	0.53 <sup>Q</sup>	<0.40 <sup>A</sup>
MW-3		Top of Well Screen in Feet MSL: 597.70																	
	10/1/05	<0.41	<0.41	<0.24	<0.83	<0.83	<0.54	<0.59	<0.93	<0.81	<0.89	<0.97	<0.67	<0.18	<2.63	593.39	<0.40	1.2 <sup>Q</sup>	<0.40
	2/21/06	<0.41	<0.41	<0.24	<0.83	<0.83	<0.54	<0.59	<0.93	<0.81	<0.89	<0.97	<0.67	<0.18	<2.63	593.80	<0.40	0.75 <sup>Q</sup>	<0.40
	5/15/06	<0.41	<0.41	<0.24	<0.83	<0.83	<0.54	<0.59	<0.93	<0.81	<0.89	<0.97	<0.67	<0.18	<2.63	594.00	<0.40	1.7 <sup>A</sup>	<0.40
	8/16/06	<0.41	<0.41	<0.24	<0.83	<0.83	<0.54	<0.59	<0.93	<0.81	<0.89	<0.97	<0.67	0.40 <sup>Q</sup>	<2.63	613.13	<0.40 <sup>A</sup>	0.48 <sup>Q</sup>	<0.40 <sup>A</sup>
11/15/06	<0.41	<0.41	<0.24	<0.83	<0.83	<0.54	<0.59	<0.93	<0.81	<0.89	<0.97	<0.67	<0.18	<2.63	599.13	NT	NT	NT	
PAL		0.5	20	0.3	60	7	140	NE	NE	NE	NE	NE	200	0.02	1000		0.5	10	1.5
ES		5	100	3	600	70	700	NE	NE	NE	NE	NE	1000	0.2	10,000		5	100	15

Notes:

ug/L = micrograms per liter      NM = Not measured      NE = Not Established      NT = Not Tested      MSL - Mean Sea Level Natural Geodetic Vertical Datum 1929.  
 PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, November 2006 exceedances are underlined italics.  
 ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, November 2006, exceedances are bold.  
<sup>Q</sup> = Concentration detected between the limit of quantitation (LOQ) and the limit of detection (LOD). The numeric value is estimated.  
<sup>A</sup> Detected in method blank, numeric value is estimated.

**Table E-2  
Groundwater Laboratory Results - Polycyclic Aromatic Hydrocarbons  
Miller Visitor Center, Milwaukee, WI  
STS Project 5-875857XB**

Well Location	Sample Date	Acenaphthene (ug/L)	Acenaphthylene (ug/L)	Anthracene (ug/L)	Benzo(a) anthracene (ug/L)	Benzo(a) pyrene (ug/L)	Benzo(b) fluoranthene (ug/L)	Benzo(ghi) perylene (ug/L)	Benzo(k) fluoranthene (ug/L)	Chrysene (ug/L)	Dibenzo (a,h.) anthracene (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Indeno (1,2,3-cd) pyrene (ug/L)	1-Methyl naphthalene (ug/L)	2-Methyl naphthalene (ug/L)	Naphthalene (ug/L)	Phenanthrene (ug/L)	Pyrene (ug/L)	Groundwater Elevation (MSL)
MW-1		Top of Well Screen in Feet MSL: 599.21																		
	10-1-05	0.43	0.12	<0.023	<0.031	0.037	<0.031	<0.039	<0.039	<0.038	<0.038	<0.031	0.37	<0.038	0.19	0.036 <sup>Q</sup>	0.098 <sup>Q</sup>	<0.023	<0.028	596.57
	2-21-06	0.23	0.059	0.018	0.03	0.036	0.036	0.031	0.027	0.038	<0.020	0.095	0.13	0.027	0.11	0.028	0.22	0.075	0.075	597.10
	5-15-06	0.028	<0.0094	<0.012	<0.018	<0.019	<0.016	<0.020	<0.020	<0.020	<0.020	0.016 <sup>Q</sup>	<0.0094	<0.020	0.018	<0.012	<0.013	<0.012	<0.015	598.36
	8/16/06	0.17	0.049	0.019 <sup>Q</sup>	<0.017	<0.020	<0.017 <sup>Z</sup>	<0.022	<0.022 <sup>Z</sup>	<0.021	<0.021	<0.017	0.088	<0.021	0.018 <sup>Q</sup>	0.020 <sup>Q</sup>	0.11 <sup>B</sup>	<0.013	<0.018	596.62
MW-1 D Duplicate	10-1-05	0.46	0.13	<0.023	<0.031	<0.037	<0.031	<0.039	<0.039	<0.038	<0.038	<0.031	0.40	<0.038	0.19	0.031 <sup>Q</sup>	0.11 <sup>Q</sup>	<0.023	<0.029	596.57
MW-2		Top of Well Screen in Feet MSL: 598.88																		
	10-1-05	0.047	0.012 <sup>Q</sup>	0.017 <sup>Q</sup>	<0.016	<0.018	<0.016	<0.019	<0.019	<0.019	<0.019	<0.015	<0.0091	<0.019	0.045	0.023 <sup>Q</sup>	<0.017	<0.011	<0.015	596.46
	2-21-06	0.0094	<0.0094	0.02	0.016	0.019	0.02	<0.019	<0.019	0.021	<0.019	0.059	<0.0094	<0.019	0.016	0.013	0.024	0.047	0.046	597.08
	5-15-06	<0.0066	<0.0066	0.014 <sup>Q</sup>	<0.017	<0.019	<0.017 <sup>Z</sup>	<0.020	<0.020 <sup>Z</sup>	<0.020	<0.020	<0.016	<0.0096	<0.020	<0.011	<0.012	<0.013	<0.012	<0.015	598.87
	8/16/06	0.01 <sup>Q</sup>	<0.0090	<0.013	<0.017	<0.020	<0.017 <sup>Z</sup>	<0.022	<0.022 <sup>Z</sup>	<0.021	<0.021	<0.017	<0.010	<0.021	0.013 <sup>Q</sup>	0.020 <sup>Q</sup>	0.025 <sup>QB</sup>	<0.013	<0.018	596.59
MW-3		Top of Well Screen in Feet MSL: 597.70																		
	10-1-05	0.078 <sup>Q</sup>	<0.065	0.29 <sup>Q</sup>	0.74	0.7	0.48 <sup>Z</sup>	0.47 <sup>Q</sup>	0.51 <sup>OZ</sup>	0.66	<0.15	1.7	<0.072	0.36 <sup>Q</sup>	<0.031	<0.040	<0.039	1.1	1.7	593.39
	2-21-06	0.0095	<0.0094	0.037	0.1	0.11	0.095	0.094	0.089	0.11	0.028	0.27	0.014	0.081	<0.019	<0.012	0.014	0.18	0.26	593.80
	5-15-06	<0.0065	<0.0064	<0.012	0.021 <sup>Q</sup>	0.024 <sup>Q</sup>	0.025 <sup>Q</sup>	<0.020	<0.020	0.025 <sup>Q</sup>	<0.020	0.063	<0.0094	<0.020	<0.011	<0.012	0.014 <sup>Q</sup>	0.038 <sup>Q</sup>	0.053	594.00
	8/16/06	<0.0095	<0.0089	<0.013	0.021 <sup>Q</sup>	0.022 <sup>Q</sup>	0.022 <sup>OZ</sup>	<0.021	<0.021 <sup>Z</sup>	<0.021	<0.021	0.033 <sup>Q</sup>	<0.0094	<0.021	<0.011	<0.021	0.020 <sup>QB</sup>	0.020 <sup>Q</sup>	0.029 <sup>Q</sup>	613.13
PAL		NE	NE	600	NE	0.02	0.02	NE	NE	0.02	NE	80	80	NE	NE	NE	10	NE	50	
ES		NE	NE	3000	NE	0.2	0.2	NE	NE	0.2	NE	400	400	NE	NE	NE	100	NE	250	

Notes:

ug/L = micrograms per liter

NE= Not Established

PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, November 2006 exceedances are underlined italics.

ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, November 2006, exceedances are bold.

<sup>Q</sup> = Concentration detected between the limit of quantitation (LOQ) and the limit of detection (LOD). The numeric value is estimated.

<sup>Z</sup> = Benzo(b)fluoranthene and Benzo(k)fluoranthene co-elute. A separate peak was present in the chromatogram, but the separation criteria set forth under SW846 was not met. Thus, the concentrations are estimated.

<sup>B</sup> = Analyte present in the method blank.

**Table E-4**  
**Groundwater Measurements and Elevations**  
**Miller Visitor Center, Milwaukee, WI**  
**STS Project No.5-87857XB**

Well Number	MW-1		MW-2		MW-3	
Ground Elevation (ft MSL)	613.26		614.74		616.20	
Top of PVC Casing (TOC) Elevation (ft)	612.95		614.16		615.85	
Screen Length (ft)	10		10		10	
TOC to Bottom of Well (ft MSL) <sup>A</sup>	23.74		25.28		28.15	
Elevation top of Screen (ft MSL)	599.21		598.88		597.70	
	Depth to		Depth to		Depth to	
	GW from	Groundwater	GW from	Groundwater	GW from	Groundwater
Date	TOC (ft)	Elevation (ft)	TOC (ft)	Elevation (ft)	TOC (ft)	Elevation (ft)
10/26/2005	16.38	596.57	17.70	596.46	22.46	593.39
2/14/2006	15.85	597.10	17.08	597.08	22.05	593.80
5/15/2006	14.59	598.36	15.29	598.87	21.85	594.00
8/16/2006	16.33	596.62	17.57	596.59	22.72	593.13
11/15/2006	15.74	597.21	16.91	597.25	22.72	593.13

Elevation based on City of Milwaukee Datum (+580.603 used to convert to NGVD 1929)

Elevations referenced to rim elevation of manhole (46.9 ft) on W. State Street.

ft MSL = feet Mean Sea Level National Geodetic Vertical Datum 1929

<sup>A</sup> = as measured inside well

NI = Not Installed

-- no elevation