

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

March, 2010  
(RR 5367)

**Source Property Information**

CLOSURE DATE: Dec 14, 2010

**BRRTS #:** 03-41-193286  
**ACTIVITY NAME:** Signature Flight Support - Former West Fuel Facility  
**PROPERTY ADDRESS:** 4800 South Howell Avenue, Milwaukee, WI 53207  
**MUNICIPALITY:** Milwaukee  
**PARCEL ID #:** 640-9999-117

**FID #:** 241966890  
**DATCP #:**  
**COMM #:**

**\*WTM COORDINATES:**

X: 690603 Y: 277964

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

**WTM COORDINATES REPRESENT:**

- Approximate Center Of Contaminant Source  
 Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

**Contaminated Media:**

Groundwater Contamination > ES (236)

Contamination in ROW

Off-Source Contamination

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

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

Contamination in ROW

Off-Source Contamination

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

**Land Use Controls:**

N/A (Not Applicable)

Soil: maintain industrial zoning (220)

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

Structural Impediment (224)

Site Specific Condition (228)

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*

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

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

BRRTS #: 03-41-193286 PARCEL ID #: 640-9999-117  
ACTIVITY NAME: SIGNATURE FLIGHT SUPPORT CORP WTM COORDINATES: X: 690603 Y: 277964

**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.)
- Continuing Obligation Cover Letter** (for property owners affected by residual contamination and/or continuing obligations)
- 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 11 x 17 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 Location 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 #: 2**                      **Title: Site Features Map**
- 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: Investigative Soil Sampling Locations**

BRRTS #: 03-41-193286

ACTIVITY NAME: SIGNATURE FLIGHT SUPPORT CORP

**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 #: 6**                      **Title: Groundwater Contaminant Plume Map**

**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 #: 5**                      **Title: Groundwater Gradient Map (3/29/09)**

**Figure #: 2**                      **Title: Groundwater Elevation Map**

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

Tables must be no larger than 11 x 17 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

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

**Table #: 2**                      **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 #: 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 #: 1**                      **Title: Groundwater Elevation Data**

**IMPROPERLY ABANDONED MONITORING WELLS**

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.

**Note:** *If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.*

**Not Applicable**

**Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.

**Note:** *If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.*

**Figure #:**                      **Title:**

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

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

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

BRRTS #: 03-41-193286

ACTIVITY NAME: SIGNATURE FLIGHT SUPPORT CORP

## NOTIFICATIONS

### Source Property

Not Applicable

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

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

### Off-Source Property

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

Not Applicable

**Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.

**Note:** Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.

**Number of "Off-Source" Letters:**

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

**Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies)**. This does not apply to right-of-ways.

**Note:** If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.

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

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



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Matthew J. Frank, Secretary  
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 414-263-8606  
TTY 711

December 14, 2010

Mr. Doug Drescher  
Signature Flight Support  
923 East Layton Avenue  
Milwaukee, WI 53207

Subject: Final Case Closure with Continuing Obligations  
Signature Flight Support/Former West Fuel Facility  
4800 South Howell Avenue, Milwaukee, Wisconsin 53207  
FID #: 241966890; BRRTS #: 03-41-193286  
PECFA Claim #: 53207-5915-00

Dear Mr. Drescher:

On July 8, 2010, the Southeast Region Closure Committee reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On August 10, 2010, you were notified that the Closure Committee had granted conditional closure to this case.

On September 24, 2010, the Department received information or documentation indicating that you have complied with the requirements for final closure. The condition of closure required the responsible party to abandon the monitoring wells used for the cleanup activities at the site.

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

### GIS Registry

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

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- If a structural impediment that obstructed a complete site investigation or cleanup is removed or modified, additional environmental work must be completed
- Pavement, an engineered cover or a soil barrier must be maintained over contaminated soil and the state must approve any changes to this barrier
- Groundwater contamination is present above Chapter NR 140 enforcement standards

Mr. Doug Drescher  
RE: Final Case Closure with Continuing Obligations  
Signature Flight Support/Former West Fuel Facility  
4800 South Howell Avenue, Milwaukee, Wisconsin 53207  
December 14, 2010  
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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 the current property owner and any subsequent property owners must adhere. You must pass on the information about these continuing obligations to the next property owner or owners. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. The Department intends to conduct inspections in the future to ensure that the conditions included in this letter including compliance with referenced maintenance plans are met.

#### **Impervious Barrier Required**

Pursuant to s. 292.12(2)(a), Wis. Stats., the engineered cover (i.e. concrete, asphalt and maintenance building or other impervious cap) that currently exists in the location shown on the attached map (**Figure 1: Engineered Cover/Control System - Former Signature Flight Support; West Fuel Facility, 4800 S. Howell Avenue, Milwaukee, WI 53207**) shall be maintained in compliance with the **attached maintenance plan** in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

Mr. Doug Drescher  
RE: Final Case Closure with Continuing Obligations  
Signature Flight Support/Former West Fuel Facility  
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#### 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 (**Figure 1: Engineered Cover/Control System - Former Signature Flight Support; West Fuel Facility, 4800 S. Howell Avenue, Milwaukee, WI 53207**), unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure.

#### Residual Groundwater Contamination

Groundwater impacted by Benzene, MTBE and Benzo(a)pyrene contamination (Figure 6) greater than enforcement standards set forth in ch. NR140, Wis. Adm. Code, is present on this contaminated property and the source property owner (**Mr. Greg Failey, Milwaukee County - Mitchell Airport, 5300 S. Howell Avenue, Milwaukee, WI 53207**) has been notified of the presence of groundwater contamination. For more detailed information regarding the locations where groundwater samples have been collected (i.e., monitoring well locations) and the associated contaminant concentrations, refer to the Remediation and Redevelopment Program's GIS Registry at the RR Sites Map page at <http://dnr.wi.gov/org/aw/rr/gis/index.htm>.

#### 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.

#### 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:

- Any activity or construction that results in the removal or modification of a structural impediment that obstructed a complete site investigation or cleanup
- 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

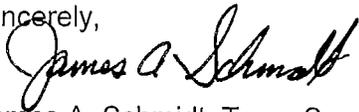
Please send written notifications in accordance with the above requirements to Southeast Region RR Program, 2300 N. Dr. MLK Jr., Drive, Milwaukee, WI 53212, to the attention of Victoria Stovall.

Mr. Doug Drescher  
RE: Final Case Closure with Continuing Obligations  
Signature Flight Support/Former West Fuel Facility  
4800 South Howell Avenue, Milwaukee, Wisconsin 53207  
December 14, 2010  
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State Statute 101.143 requires that PECFA claimants seeking reimbursement of interest costs, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

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 Eric Amadi at (414) 263-8639.

Sincerely,



James A. Schmidt, Team Supervisor  
SER Remediation & Redevelopment Program  
Milwaukee Service Center, Milwaukee, WI 53212

Enclosures: Cap Maintenance Plan

Figure 1 - Engineered Cover/Control System - Former Signature Flight Support;  
West Fuel Facility, 4800 S. Howell Avenue, Milwaukee, WI 53207

Figure 6 - Groundwater Contaminant Plume - Estimated Extent of Groundwater  
Contamination Above NR 140 ES

cc: Ken Potrykus - ERM, Inc., 700 West Virginia Street, Suite 601, Milwaukee, WI 53204  
Linda Michalets - Wisconsin Department of Commerce, 9316 North 107<sup>th</sup> Street,  
Milwaukee, WI 53224-1121  
SER Case File #: 03-41-193286

**Engineered Cover/Control System Maintenance Plan  
Milwaukee County's  
General Mitchell International Airport  
Former Signature Flight Support -West Fuel Facility  
4800 S. Howell Avenue  
Milwaukee, Wisconsin  
BRRTS# 03-41-193286**

Environmental Resources Management (ERM), under the direction of Signature Flight Support Corporation (Signature), has prepared this Engineered Cover/Control System Maintenance Plan (the "Plan") in compliance with the standards set forth in Chapter NR 724.13 of the Wisconsin Administrative Code. This Plan has been prepared for Milwaukee County's General Mitchell International Airport (GMIA) for the Former West Fuel Facility leased and operated by Signature.

An engineered cover, namely concrete, asphalt, and a maintenance building, are currently in-place over existing soil that contains volatile organic compounds (VOCs) at the above referenced facility. Figure 1 provides a delineation of the engineered cover. This cover will be maintained as a soil performance standard to protect (1) the direct contact exposure pathway, and (2) the soil-to-groundwater pathway. Additionally, a portion of the site where the former tank farm was located is covered by gravel. This area was backfilled with clean fill and access will be controlled by fencing in order to control direct contact exposure pathway to the site soils.

The design goal for this performance standard is to prevent these pathways for at least a period of 30 years or as long as the in-place soil contains concentrations exceeding a residual contaminant level (RCL).

### **Site Remediation History**

The facility, whose layout is shown in Figure 1, had historic discharges from a former underground storage tank farm. The tanks were removed in May of 1998. Results of post-tank removal soil boring analytical testing indicated levels of constituents in excess of RCLs.

Free product had been observed in two of the site monitoring wells (MW-1 and MW-4R). However, product recovery efforts were successful and free product has not been observed in the site monitoring wells since November 2003. Additionally, several rounds of groundwater analysis indicated that the groundwater contaminant concentrations are stable or decreasing.

### Decision making criteria

The existing building, concrete, and asphalt pavement covering the in-place soil that exceeds the generic RCLs prevents direct contact exposure, accounting for the current and future expected land uses, access restrictions, institutional controls, and planned maintenance. In addition, the existing cover should provide enough infiltration reduction to act in concert with other mechanisms, that when viewed as a whole remedial concept for the site, provide for natural attenuation of the soil contaminants so the soil and ground water standards will be met in a reasonable period of time. This cover system and associated fine-grained nature of site soils should also minimize vapor migration.

### Design

The existing building slab, concrete, and asphalt are in good condition. The building slab will prevent contaminants exposure to on-site workers thereby providing adequate protection against direct contact exposure. The building slab, concrete, and asphalt also provide sufficient reduction in infiltration to reduce leaching of contaminants to the groundwater from the contaminated soil.

Access restriction to the gravel covered portion of the site is provided by security fencing. The fencing prevents general public from direct exposure to contaminated soils. Furthermore, there is sufficient clean soil under the gravel area, as a result of tank removal cavity backfill, to separate the contamination from the surface.

### Maintenance Plan

This maintenance plan consists of annual inspections of the concrete, asphalt, fencing, and gravel covered area with recommendations for regular maintenance and any necessary repairs. The property owner will continue to maintain the existing building adjacent to the site in good repair. The building is not included in the annual inspections described below.

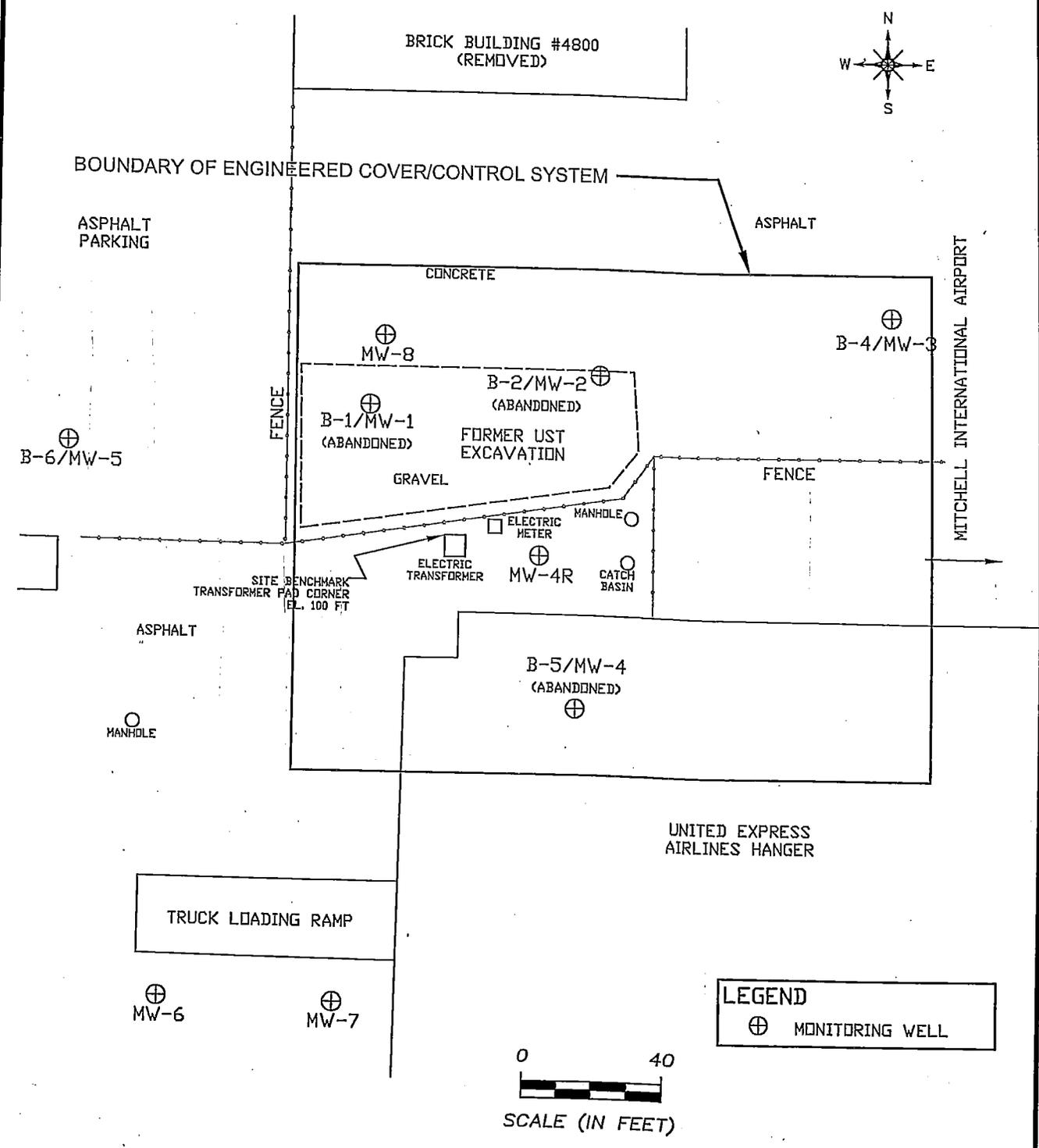
Inspections will focus on observing and documenting the integrity of the concrete, asphalt, and gravel cover area within the area of contaminated soil and note any unplanned cracking, offsets, degradation, etc. Inspections will also document integrity of security fencing. An inspection form is included in Appendix A.

Records of the annual inspections will be kept on file at the Signature facility and will be made available for review by the Wisconsin Department of Natural Resources (WDNR) upon their request.

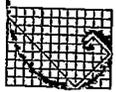
### **Plan Revisions**

When warranted by changes in the design or maintenance of this remedial measure, or when requested by the WDNR, General Mitchell International Airport will revise this maintenance plan. Plan revisions will be submitted to the WDNR and will include a revision date, and document any changes in the design or maintenance of this remedial action.

# ENGINEERED COVER/CONTROL SYSTEM



04/13/09



ERM

## FORMER SIGNATURE-WEST FUEL FACILITY

4800 S. HOWELL AVE.  
MILWAUKEE, WI

Environmental Resources Management

CADD Review  
CMH

CHK'D

0091715

FIGURE 1

Former Signature Flight - West Fuel Facility  
Engineered Cover/Control System Inspection Form  
Milwaukee County's General Mitchell International Airport

Date of Inspection: \_\_\_\_\_

Inspector's Name: \_\_\_\_\_

1. Surface Mapping (Note surface conditions such as flaking, spalling, etc.):

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2. Condition of Joints (note locations where joints have separated or offset. Review previous year's inspection record for comparison.):

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3. Condition of Cracks (Indicate whether cracks are separated, offset, or lengthened. Review previous year's inspection records for comparison):

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4. Condition of Security Fence:

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5. Other Observations:

Signature of Inspector: \_\_\_\_\_



## 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 414-263-8606  
TTY 711

August 10, 2010

Mr. Doug Drescher  
Signature Flight Support  
923 East Layton Avenue  
Milwaukee, WI 53207

Subject: Conditional Case Closure With Requirements to Achieve Final Closure  
Signature Flight Support/Former West Fuel Facility  
4800 South Howell Avenue, Milwaukee, Wisconsin 53207  
FID #: 241966890; BRRTS #: 03-41-193286; PECFA Claim #: 53207-5915-00

Dear Mr. Drescher:

The Department of Natural Resources (Department) has completed the review of the request for closure of the case described above. The Department reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. Information submitted to the Department for the closure request include: a) soil and groundwater documents for GIS registry; b) notification to the current source property owner (Mr. Greg Failey, Milwaukee County - Mitchell Airport) regarding residual petroleum contamination at the Signature' former West Fuel Facility located at 4800 South Howell Avenue, Milwaukee, Wisconsin; c) area of cap maintenance (**Figure 1: Engineered Cover/Control System - Former Signature; West Fuel Facility**); and d) cap maintenance plan regarding residual petroleum impacted soils and groundwater that remain on the property.

Based on the information provided, the Department has determined that the petroleum release discovered on the site appear to have been investigated and remediated to the extent practicable under site conditions. Your case will be closed under s. NR 726.05, Wis. Adm. Code, if the following condition is satisfied:

### **MONITOR WELL ABANDONMENT/"LOST" OR UNABANDONED MONITOR WELL(S)**

The monitoring wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to the Department on Form 3300-5B found at [www.dnr.state.wi.us/org/water/dgw/gw/](http://www.dnr.state.wi.us/org/water/dgw/gw/) or provided by the Department. If you have a "lost" or unabandoned monitoring well, please include a copy of site location map with the surveyed well location (from construction) identified, and a copy of the well construction report for that well. These items will be added to the GIS packet. When the indicated condition has been satisfied, please submit a letter to let me know that the applicable condition has been met, and your case will be closed.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites when closure letter is issued. 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 <http://dnr.wi.gov/org/aw/rr/gis/index.htm>. If your 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), Wisconsin Administrative Code.

Mr. Doug Drescher

RE: Conditional Case Closure With Requirements to Achieve Final Closure

Signature Flight Support/Former West Fuel Facility

4800 South Howell Avenue, Milwaukee, Wisconsin 53207

FID #: 241966890; BRRTS #: 03-41-193286; PECFA Claim #: 53207-5915-00

August 10, 2010

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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://www.dnr.state.wi.us/org/water/dwg/3300254.pdf> or at the web address listed above for the GIS Registry.

State Statute 101.143 requires that PECFA claimants seeking reimbursement of interest costs, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

We appreciate the actions you are taking to restore the environment at this site. If you have any questions regarding this letter, please contact me at (414) 263-8639.

Sincerely,



Eric Amadi - Hydrogeologist  
Remediation & Redevelopment Program  
SER Milwaukee Service Center

Attachment: Figure 1: Engineered Cover/Control System - Former Signature; West Fuel Facility

cc: Ken Potrykus - ERM, Inc., 700 West Virginia Street, Suite 601, Milwaukee, WI 53204  
Linda Michalets - WI Dept. of Commerce, 9316 N. 107<sup>th</sup> St., Milwaukee, WI 53224  
SER Case File #: 03-41-193286

DEED 1724 REC 349

This indenture, Made this 24 day of April, A. D., 1941,  
between Veronica M. Watry, of the Town of Lake, Milwaukee County, Wisconsin,

party of the first part, and  
Milwaukee County, a municipal body corporate,  
~~corporation~~ duly organized and existing under and by virtue of the laws of the State of Wisconsin, located  
at Milwaukee County, Wisconsin, party of the second part.

Witnesseth, That the said party of the first part, for and in consideration of the sum of  
One Dollar (\$1.00) and other good and valuable considerations,

to her in hand paid by the said party of the second part, the receipt whereof is hereby confessed and  
acknowledged, ha~~s~~<sup>e</sup> given, granted, bargained, sold, remise, released, aliened conveyed and confirmed, and  
by these presents do~~es~~<sup>e</sup> give, grant, bargain, sell, remise, release, alien, convey and confirm unto the said party  
of the second part, its successors and assigns forever, the following described real estate, situated in the County  
of Milwaukee and State of Wisconsin, to-wit:

Parcel A. The north seventeen and ninety-six hundredths (17.96) acres  
of the south forty-one and thirty-six hundredths (41.36) acres of the  
west one-half (1/2) of the northwest one-quarter of section twenty-eight,  
township six north, range twenty-two east (N.W. 1/4, Sec. 28, town 6  
north, range 22 east) excepting therefrom the south three (3) acres  
and the north four (4) acres of said north 17.96 acres, containing ten  
and ninety-six hundredths (10.96) acres of land.

Parcel B. The south four and eighty-six hundredths (4.86) acres of  
the south forty-one and thirty-six hundredths (41.36) acres of the west  
one-half (1/2) of the northwest one-quarter of section twenty-eight,  
town six north, range twenty-two east (N.W. 1/4, Sec. 28, Town 6 North,  
range 22 East).

Parcel C. The north twenty-two and eighty-two one hundredths (22.82)  
acres of the southwest 1/4 of section 28, town 6 north, range 22 east,  
more particularly described as follows: Commencing at the northwest  
corner of said 1/4 section running thence east on and along the north  
line of said 1/4 section twenty-six hundred seventy-two and nineteen  
hundredths (2872.19) feet to the northeast corner of said 1/4 section  
thence south along the east line of said 1/4 section three hundred  
seventy-five and ninety-four hundredths (375.94) feet to a point,  
thence west twenty-six hundred seventy-one and sixty-six hundredths  
(2671.66) feet to a point in the west line of said 1/4 section, thence  
north on and along the west line of said 1/4 section three hundred  
seventy-eight and forty-two hundredths (378.42) feet to the point of  
beginning, containing twenty-two and eighty-two hundredths (22.82)  
acres of land.

This deed is given in fulfillment of a land contract between Milwaukee  
County and Theodore Watry and Veronica M. Watry, dated November 16, 1937.

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

To have and to hold the said premises as above described with the hereditaments and appurtenances, unto  
the said party of the second part, and to its successors and assigns FOREVER.

And the said Veronica M. Watry

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

and that the above bargained premises in the quiet and peaceable possession of the said party of the second

part, its successors and assigns, against all and every person or persons lawfully claiming the whole or any part thereof, she will forever WARRANT and DEFEND.

In Witness Whereof, the said part y of the first part ha. g hereunto set her hand... and seal this 2d day of April, A. D., 1941.

SIGNED AND SEALED IN PRESENCE OF

James N. Horan  
Cora N. Smith

Veronica M. Watry (SBAL)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (SBAL)

State of Wisconsin, }  
Milwaukee County, } ss.

Personally came before me, this 2d day of April, A. D., 1941, the above named Veronica M. Watry

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

James N. Horan  
Notary Public, Milwaukee County, Wis.  
My commission expires October 26, A. D., 1941.



No. 2313393

Veronica M. Watry

TO

Milwaukee County

**Warranty Deed**

REGISTER'S OFFICE,  
State of Wisconsin,  
MILWAUKEE County.

Received for Record this 9 day of MAY 1941

A. D., 19

at 1146 Verona St., M., and recorded in

Vol. 1724 of Deeds on page 349

Charles J. W. ...  
Registrar of Deeds

Deputy

Approved as to form and  
Substantive April 7, 1941.  
C. J. ...  
Deputy Council

NW & SW 27-6-22 - A.P. 629 & 638

640-673-684-675

640-01

SEC. 28-6-22 - ATLAS P. 627-628-639 & 640

SCALE 1/200" = 1"

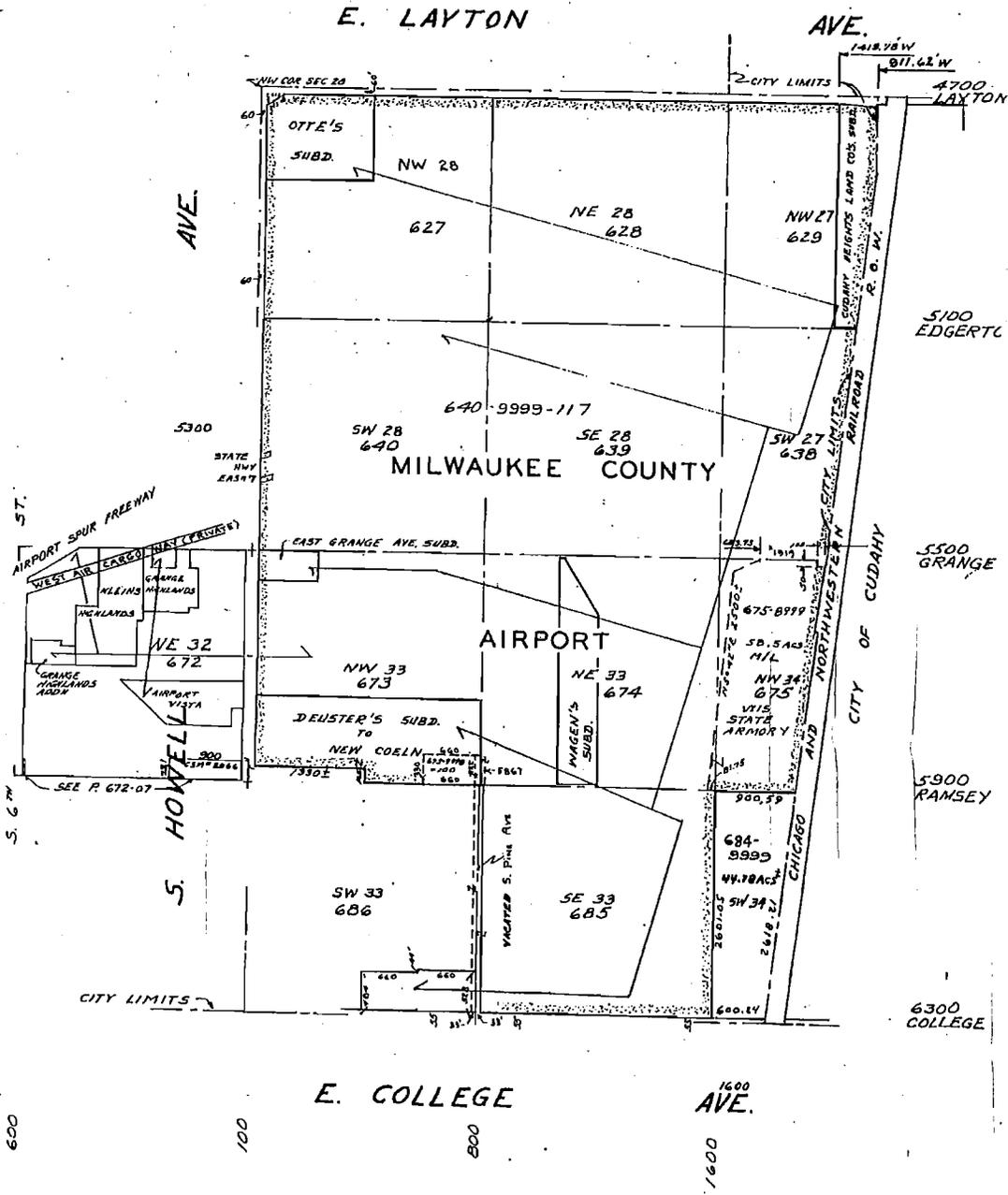
SEC. 33-6-22 - ATLAS P. 674-673-685-686

LANDS

FEB - 2 1998

NW & SW 34-6-22 - ATLAS P. 675 & 684

NE 32-6-22 ATLAS P. 672

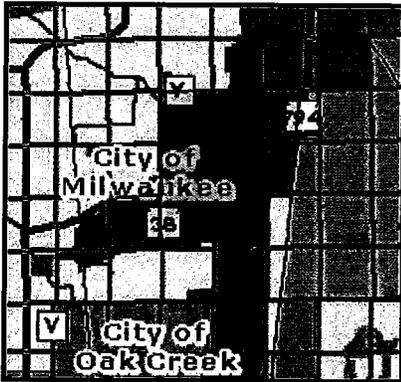


MICROFILMED 600

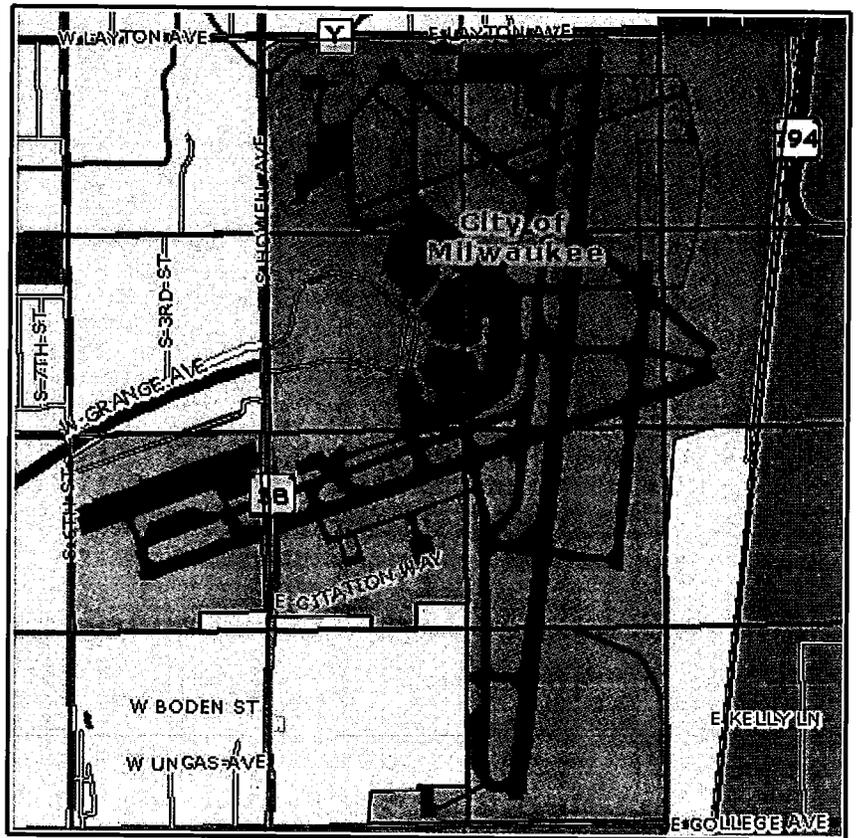
# Milwaukee County Land Information Parcel Report

TAXKEY: 6409999117

Report generated 2/26/2010 11:26:17 AM



Parcel location within Milwaukee County



Parcel highlighted in blue

## Parcel Information

TAXKEY: 6409999117

Record Date: 03/30/1992

Owner(s): MILWAUKEE COUNTY  
REGISTER OF DEEDS  
AIRPORT DIVISION

Address: 5300 S HOWELL AVE

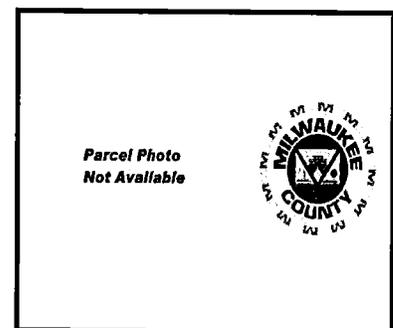
Municipality: Milwaukee

Acres: 1,517.61

Assessed Value: \$88,000,000

Parcel Description: COUNTY

**Legal Description:** LANDS IN 1/4 SECS (NW & SW 27 & SE-SW-NE-NW 28 & NE 32 & NW 34 & SE-SW-NE-NW 33)-6-22 LANDS & SUBDS BETW (E LAYTON AV-CITY LIMITS LI-58.50 ACS M/L WIS STATE ARMORY BOARD LANDS IN NE 1/4 SEC 33 & NW 1/4 SEC 3 4-6-22-N & W LI SW 1/4 SEC 34-6-22-E COLLEGE AV-(S 528' OF E 660' & S 484' OF W 600' OF E 1320') SW 1/4 33-6-22 EXC ST-W LI SE 1/4 SEC 33-6-22-NW 1/4 SEC 33-6-22 EXC (S 330' OF E 660' & S 165' M/L OF W 1330' M/L & ST)-NE 1/4 SEC 32-6-22 EX C (S231' OF E 900' & E 23.50' M/L ON S LI OF W



Parcel photo

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

# Milwaukee County Land Information Parcel Report

**TAXKEY: 6409999117**

---

56.50' OF S 231' & AIRPORT SPUR FREEWAY & STS) & E LI OF S HOWELL AV IN  
SW & NW 1/4 SECS 28-6-22 BID 40

---

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

**PROPERTY ASSESSMENT RESULTS**  
**TAX ACCOUNT BALANCE**

**GENERAL INFORMATION**

<b>ADDRESS</b>	5300 THRU 5300 S HOWELL AV
<b>TAXKEY</b>	640-9999-117-6
<b>OWNER</b>	MILWAUKEE COUNTY REGISTER OF DEEDS AIRPORT DIVISION
<b>OWNER ADDRESS</b>	5300 S HOWELL AV MILWAUKEE, WI 532070000

**ASSESSMENT**

	2010	2009
<b>LAND</b>	N/A	\$0
<b>IMPROVEMENTS</b>	N/A	\$0
<b>TOTAL</b>	N/A	\$0
<b>CURRENT CLASS</b>	EXEMPT	

Assessments reflect the estimated value on January 1st .of the indicated year.  
 The Current Assessment will be available after April 26.

**OTHER PROPERTY INFORMATION**

- LAST CONVEYANCE:
  - DATE: 00/00
  - TRANSFER FEE: \$0.00 (CLICK HERE FOR FEE EXPLANATION)
- STORIES: 0.0
- RESIDENTIAL BUILDING STYLE:
- EXTERIOR WALL TYPE:
- YEAR BUILT: 0000
- DWELLING UNITS: 0 (CLICK HERE FOR DWELLING UNITS EXPLANATION)
- TOTAL SQUARE FEET FLOOR AREA: 0
  - FIRST FLOOR AREA:
  - SECOND FLOOR AREA:
  - THIRD FLOOR AREA:
  - FINISHED ATTIC AREA:
  - FINISHED HALF STORY AREA:
  - BASEMENT LIVING AREA:
- ROOM-COUNTS
  - TOTAL ROOMS: 0
  - BEDROOMS: 0
  - BATHS: 0
  - HALF BATHS: 0
- CENTRAL AIR CONDITIONING: NO
- BASEMENT: NONE
- FIRE PLACE:
- GARAGE TYPE: NONE
- LOT SIZE: 66107296
- PLAT PAGE: 64001
- ZONING: IL1 (CLICK HERE FOR ZONING EXPLANATION)

(For zoning information contact Milwaukee Development Center at 286-8211.)

- ASSESSMENT NEIGHBORHOOD 6420
- ALDERMANIC DISTRICT: 13
- CENSUS TRACT: 217
- LEGAL DESCRIPTION:  
LEGALS LANDS IN 1/4 SECS (NW & SW 27 & SE-SW-NE-NW 28 & NE 32 & NW  
DESCRIPTION 34 & SE-SW-NE-NW 33)-6-22  
LANDS & SUBDS BETW (E LAYTON AV-CITY LIMITS LI-58.50 ACS M/L  
WIS STATE ARMORY BOARD LANDS IN NE 1/4 SEC 33 & NW 1/4 SEC 3  
4-6-22-N & W LI SW 1/4 SEC 34-6-22-E COLLEGE AV-(S 528' OF E  
660' & S 484' OF W 600' OF E 1320') SW 1/4 33-6-22 EXC ST-W  
LI SE 1/4 SEC 33-6-22-NW 1/4 SEC 33-6-22 EXC (S 330' OF E  
660' & S 165' M/L OF W 1330' M/L & ST)-NE 1/4 SEC 32-6-22 EX  
C (S231' OF E 900' & E 23.50' M/L ON S LI OF W 56.50' OF S  
231' & AIRPORT SPUR FREEWAY & STS) & E LI OF S HOWELL AV IN  
SW & NW 1/4 SECS 28-6-22  
COMMENT BID 40

*For more information contact the Assessor's office at 414-286-3651*

**STATEMENT OF RESPONSIBLE PARTY for  
the  
Signature Flight Support/Former West Fuel Facility Property,  
4800 South Howell Avenue  
General Mitchell International Airport  
WDNR BRRTS Case # 03-41-193286**

The legal description provided with this Case Summary and Close Out Request Form associated with the Required GIS Registry Information, to the best of my knowledge, is accurate and correct.

Name (printed) Douglas A. Drescher

Signature

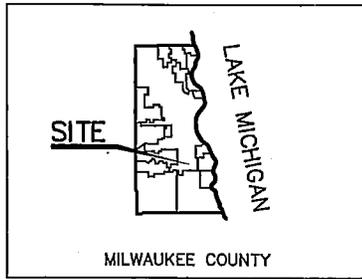


Date 08 April, 2010

Title General Manager



WISCONSIN

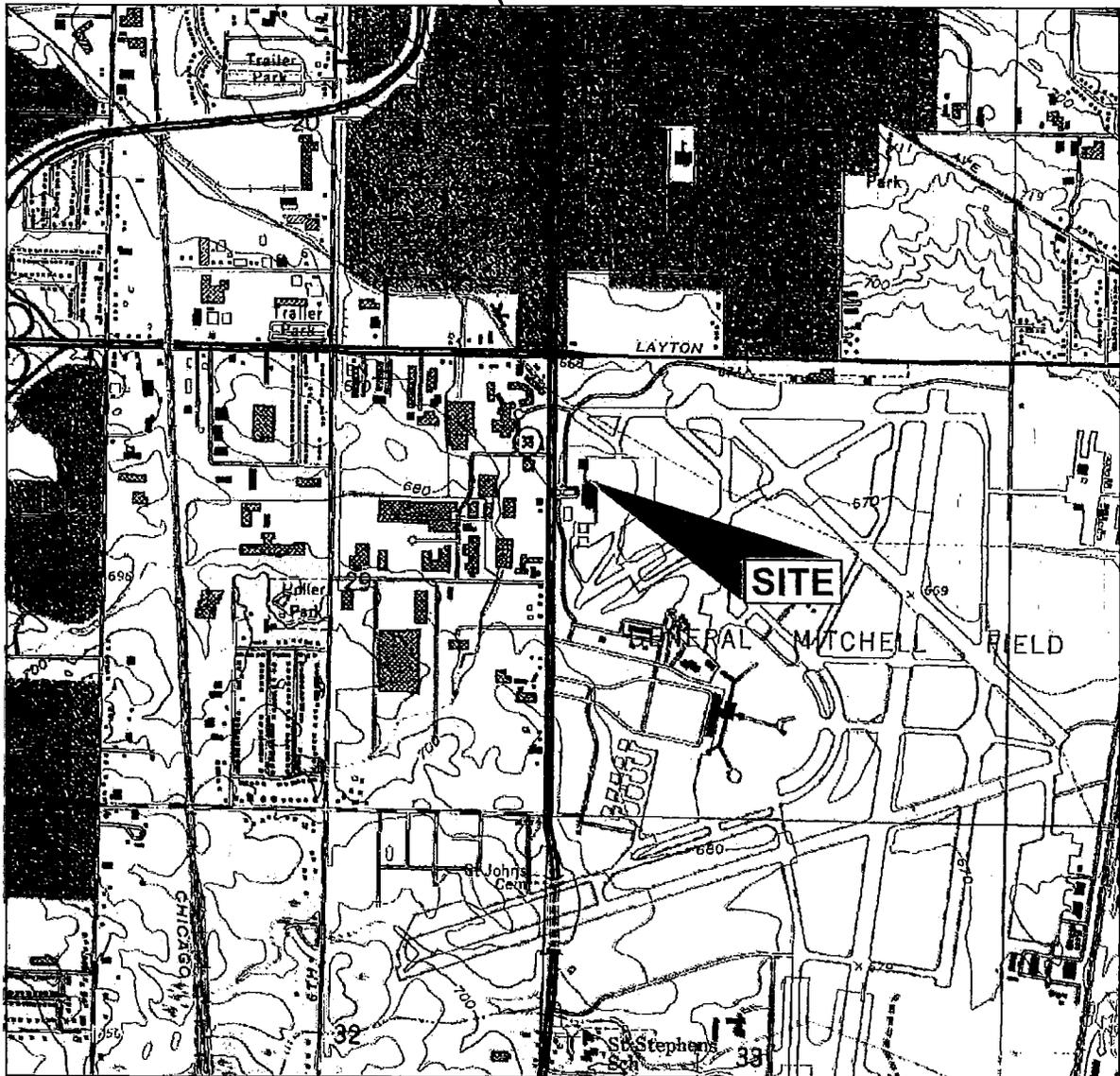


MILWAUKEE COUNTY

SECTION 28  
T.6N. - R.22E  
CITY OF MILWAUKEE  
MILWAUKEE COUNTY  
WISCONSIN



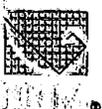
0 2000  
SCALE (IN FEET)



### SITE LOCATION MAP

ADAPTED FROM USGS  
GREENDALE QUADRANGLE, 1976

REVISIONS ARE TO BE MADE ON THE CADD FILE ONLY



## SIGNATURE FLIGHT SUPPORT

4800 S. HOWELL AVE.  
MILWAUKEE, WI

CADD Review

CHK'D

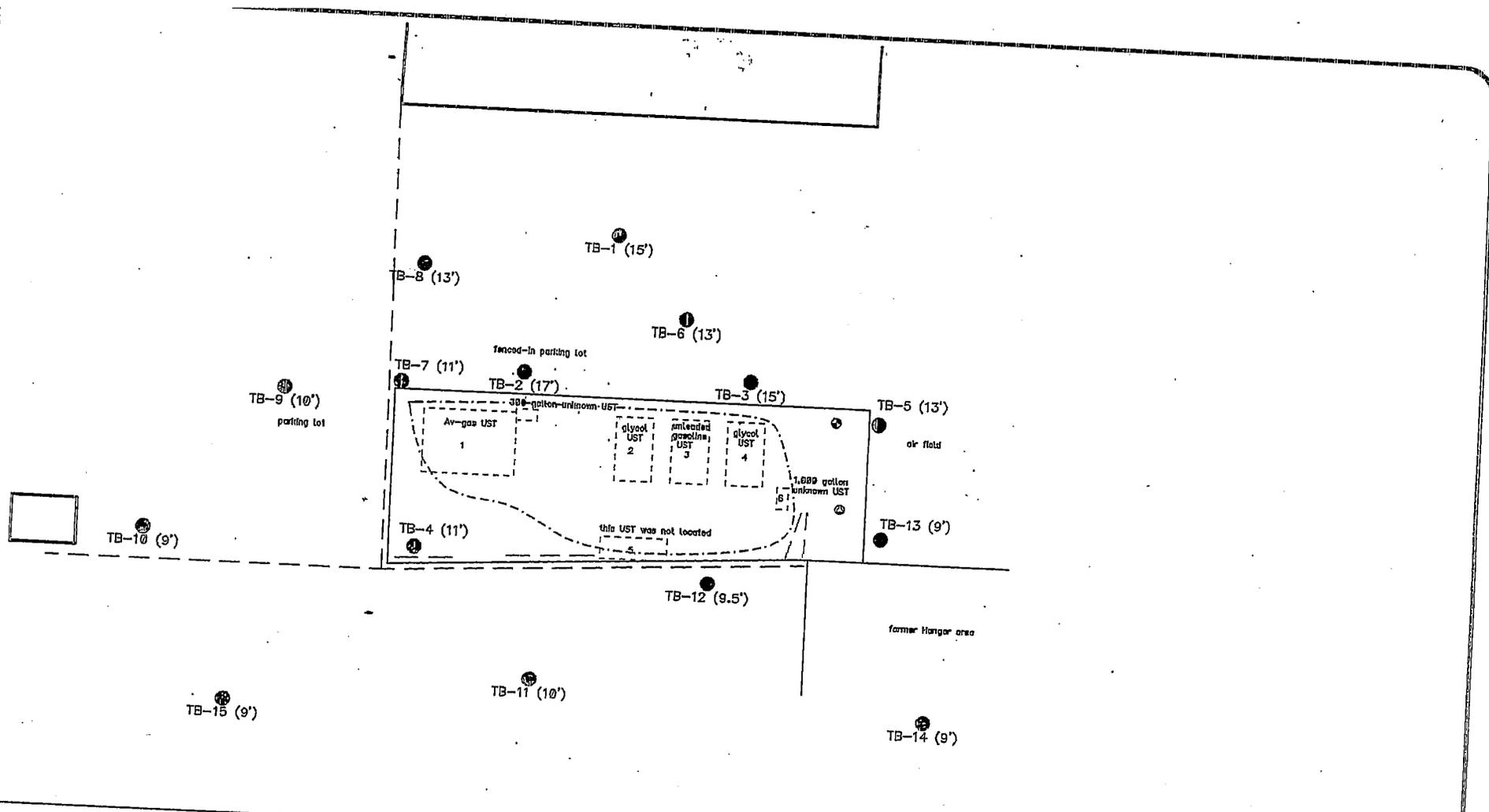
0091715

Drawn By  
CMH

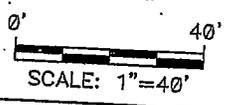
## Environmental Resources Management

FIGURE 1





- END
- Geoprobe boring
  - building
  - underground fuel tank
  - excavation
  - curb
  - fence
  - fuel line



GEOPROBE TEST BORING LOCATION MAP  
 SIGNATURE FLIGHT SUPPORT  
 4800 S. HOWELL AVE.  
 MILWAUKEE, WISCONSIN

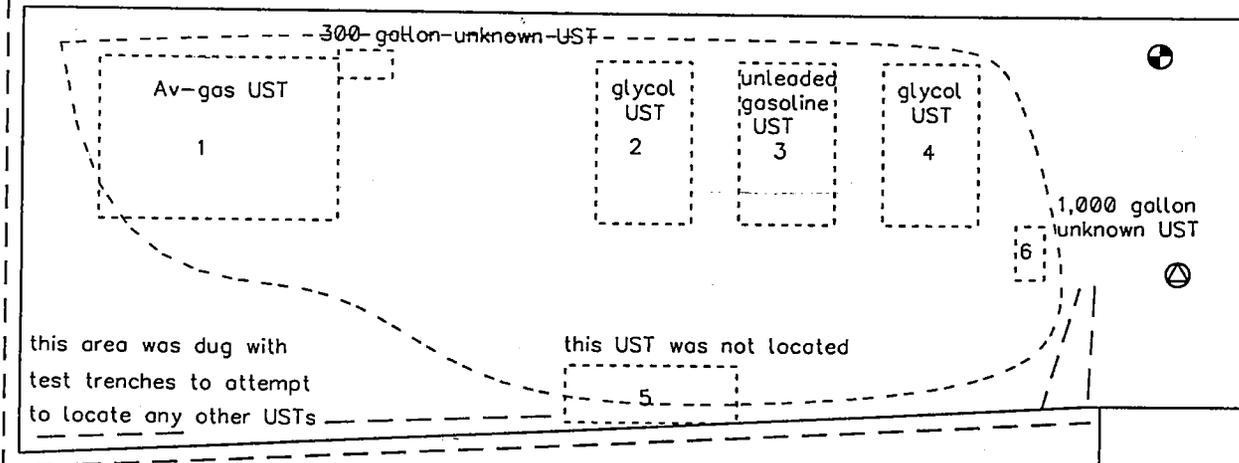


FIGURE 2

AutoCAD File: Fig2.dwg  
 Summit Proj. No: 0343-031  
 Plot Date: 05-22-2002  
 CAD Operator: AN/CAS  
 Reviewed by: DKlinger

fenced-in parking lot

parking lot

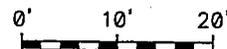


air field

former Hangar area

LEGEND

- manhole
- monitoring well
- building
- underground storage tank (UST)
- approximate boundary of excavation
- curb
- fence
- approximate location of electrical and gas underground utilities



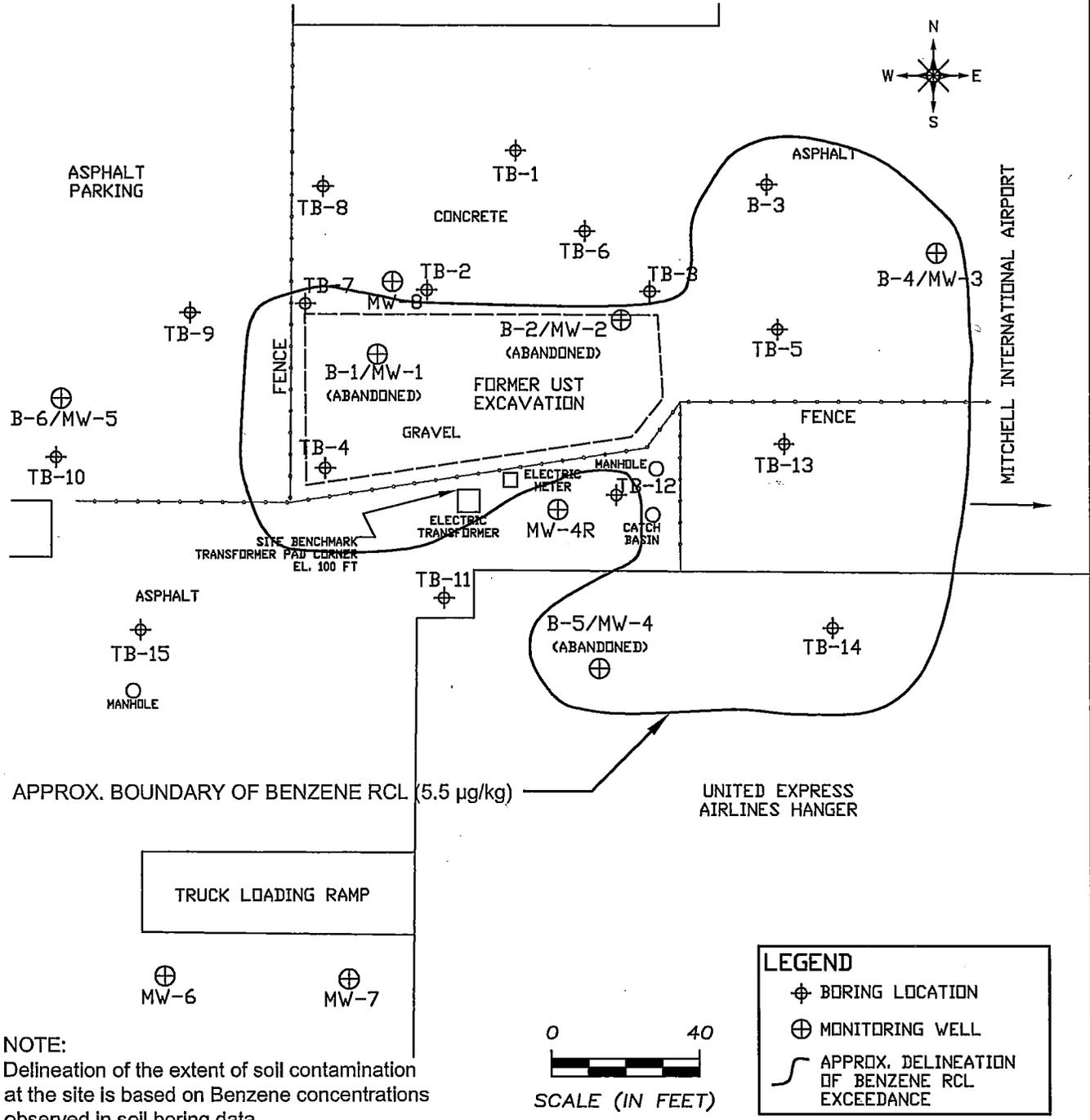
SITE EXCAVATION MAP  
 SIGNATURE FLIGHT SUPPORT  
 4800 SOUTH HOWELL AVENUE  
 MILWAUKEE, WISCONSIN



FIGURE 2

AutoCAD File: FIG2  
 Summit Proj. No: 0343-031  
 Plot Date: 08-12-1998

# INVESTIGATIVE SOIL SAMPLING LOCATIONS AND BENZENE EXTENT IN EXCESS OF REMEDIAL DEFAULT CRITERIA



**NOTE:**  
Delineation of the extent of soil contamination at the site is based on Benzene concentrations observed in soil boring data.

07/01/09



**ERM.**

## SIGNATURE FLIGHT SUPPORT

4800 S. HOWELL AVE.  
MILWAUKEE, WI

Environmental Resources Management

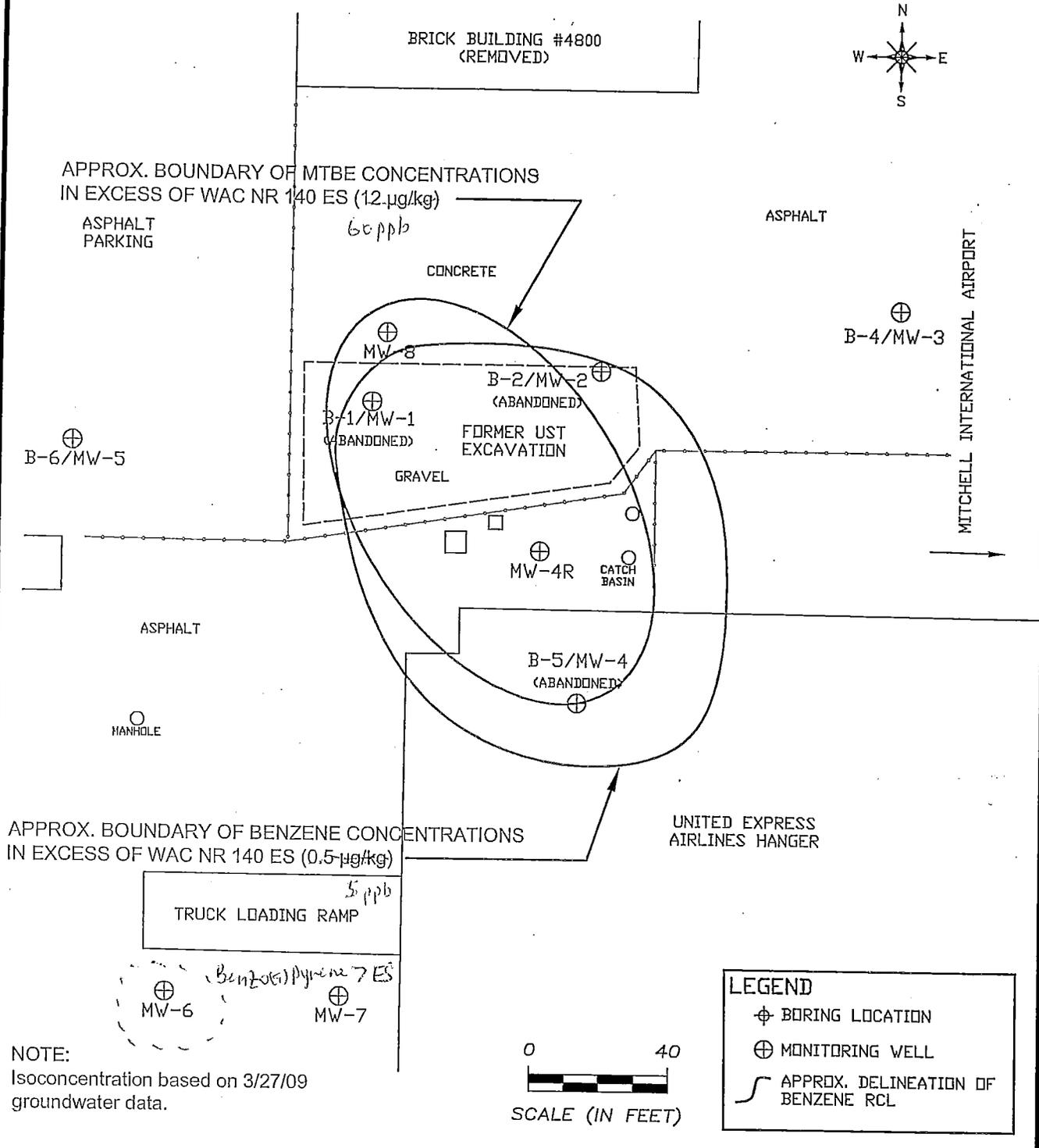
CADD Review  
CMH

CHK'D

0091715

FIGURE 3

# GROUNDWATER CONTAMINANT PLUME MAP



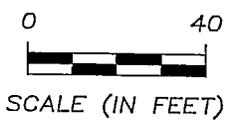
APPROX. BOUNDARY OF BENZENE CONCENTRATIONS  
IN EXCESS OF WAC NR 140 ES (0.5 µg/kg)

APPROX. BOUNDARY OF MTBE CONCENTRATIONS  
IN EXCESS OF WAC NR 140 ES (12 µg/kg)

**LEGEND**

- ⊕ BORING LOCATION
- ⊕ MONITORING WELL
- APPROX. DELINEATION OF BENZENE RCL

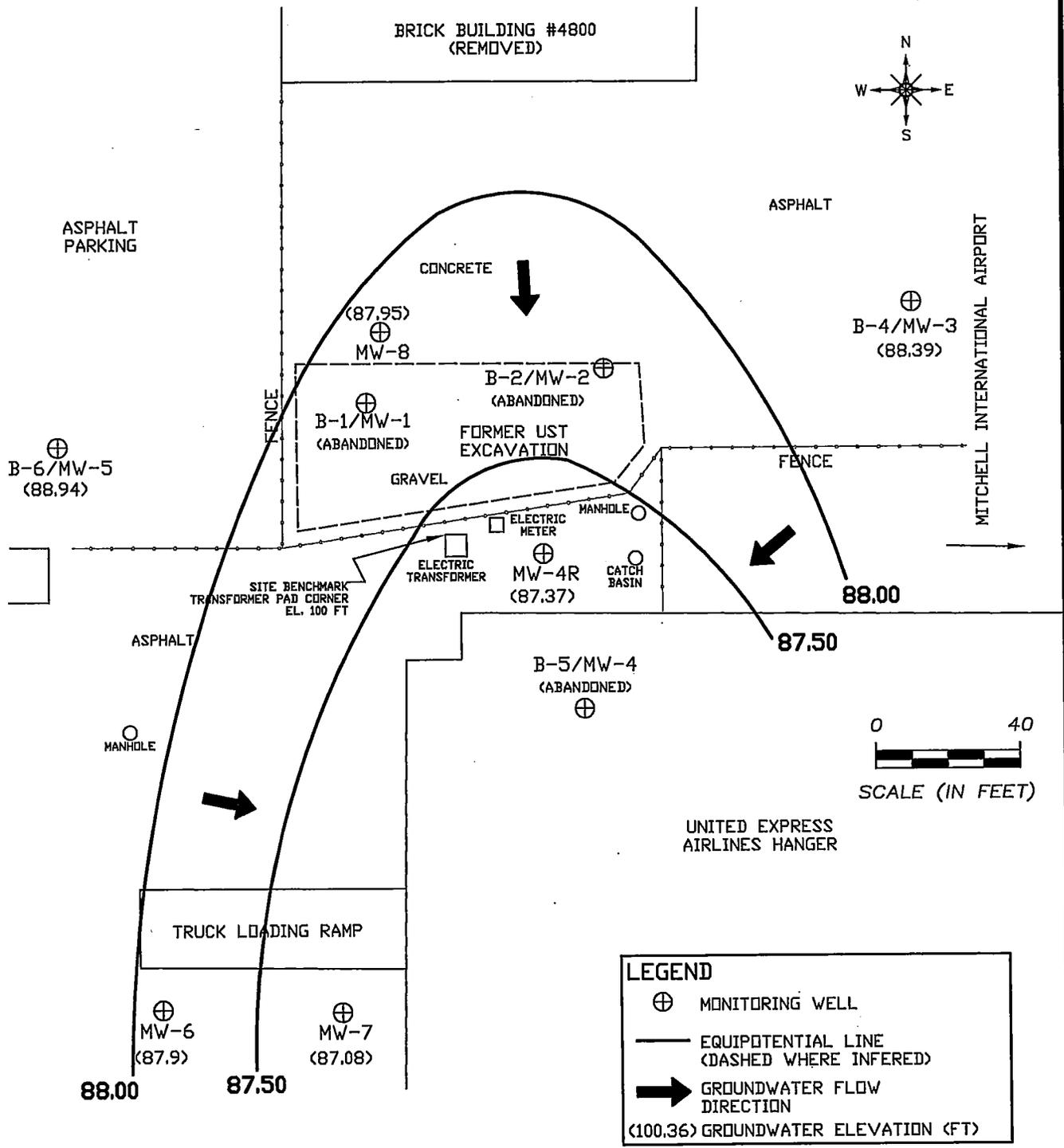
**NOTE:**  
Isoconcentration based on 3/27/09  
groundwater data.



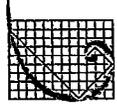
H:\CAD Projects\Signatures\CLOSURE PLAN FIGURES.dwg 7/1/2009 9:55:56 AM FreePDF.XP

07/01/09	<b>SIGNATURE FLIGHT SUPPORT</b>	CADD Review CMH
4800 S. HOWELL AVE. MILWAUKEE, WI	<b>Environmental Resources Management</b>	CHK'D
		0091715
		FIGURE 6

# GROUNDWATER GRADIENT MAP (3/27/09)



07/01/09



**ERM**

## SIGNATURE FLIGHT SUPPORT

4800 S. HOWELL AVE.  
MILWAUKEE, WI

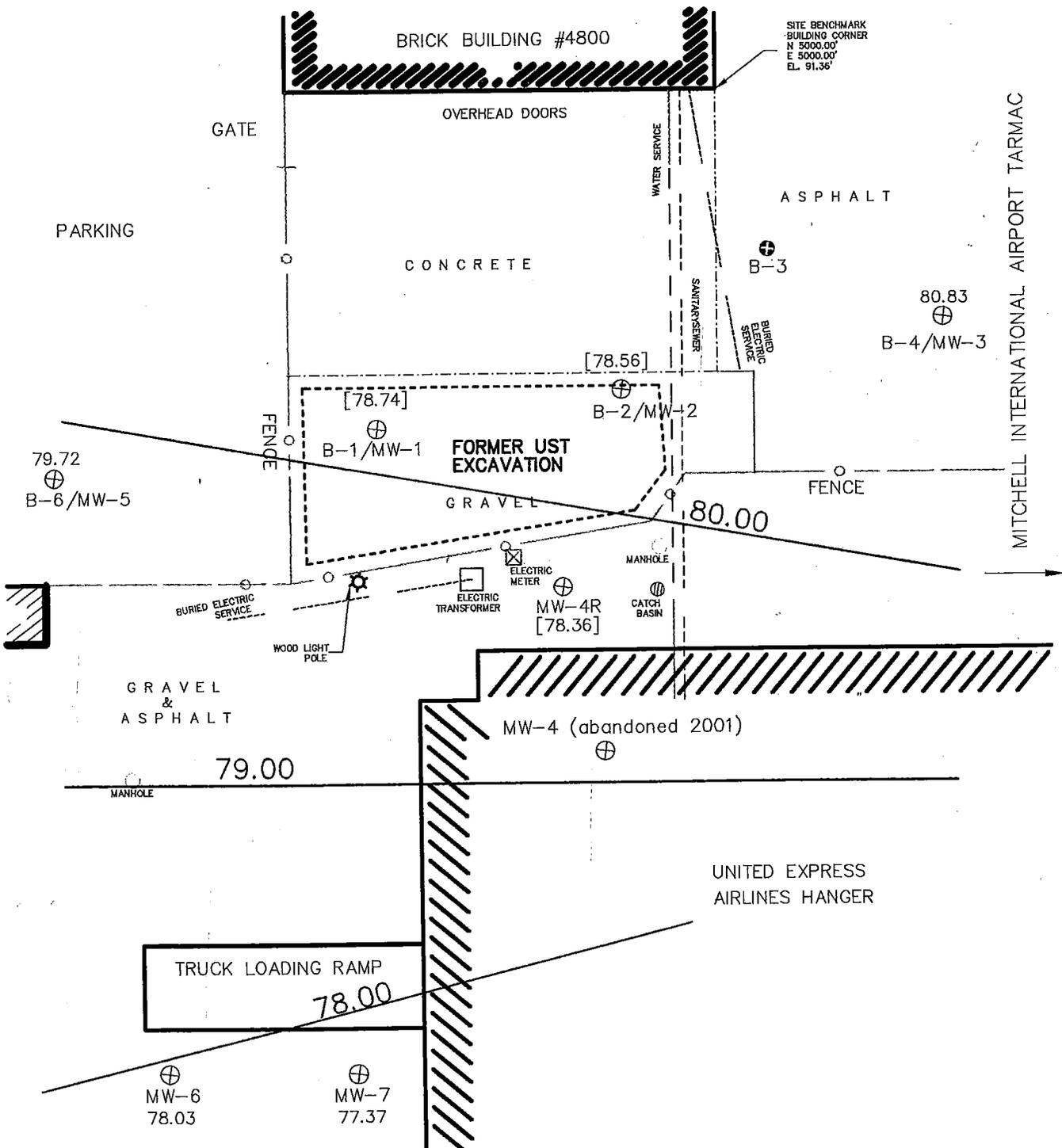
Environmental Resources Management

CADD Review  
CMH

CHK'D

0091715

FIGURE 5



SITE BENCHMARK  
BUILDING CORNER  
N 5000.00'  
E 5000.00'  
EL. 91.36'

MITCHELL INTERNATIONAL AIRPORT TARMAC

FORMER UST  
EXCAVATION

MW-4 (abandoned 2001)

UNITED EXPRESS  
AIRLINES HANGER

TRUCK LOADING RAMP  
78.00

- LEGEND**
- ⊕ test boring
  - ⊕ monitoring well
  - ▭ building
  - approximate groundwater elevation contour



0' 40'  
SCALE: 1"=40'

**GROUNDWATER ELEVATION MAP**  
**SIGNATURE FLIGHT SUPPORT**  
**4800 S. HOWELL AVE.**  
**MILWAUKEE, WISCONSIN**



**FIGURE 2**

AutoCAD File: Fig2\_DR.dwg  
Summit Proj No: 0343-031  
Plot Date: 11-05-2002  
CAD Operator: NWE  
Reviewed by: DNR

TABLE 2  
SOIL LABORATORY ANALYTICAL RESULTS - PVOC and METALS

GEOPROBE INVESTIGATION

Signature Flight Support, Inc.  
4800 South Howell Avenue  
Milwaukee, Wisconsin  
Summit Project No. 0343-031

Sample ID	Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	1,2,4 TMB	1,3,5 TMB	GRO	DRO	Lead	Cadmium
TB-1	15	<30	<30	<30	<89	<30	<30	<30	<5.9	<5.9	12	2.7
TB-2	17	<30	<30	<30	<91	<30	<30	<30	<6.1	NA	13	3.2
TB-3	15	<31	<30	<30	<43	<30	<30	<30	<6.1	NA	12	3.7
TB-4	7	<162	<162	<162	552	<162	5,790	1,480	175	NA	23	1.6
TB-5	13	<b>51</b>	33	<31	<43	<31	<31	<31	<6.2	32	14	2.7
TB-6	13	<30	<30	<30	<90	<30	<30	<30	<6	NA	29	2.2
TB-7	9	<398	<b>18,600</b>	1,370	<b>9,810</b>	<149	1,370	435	224	NA	14	2.6
TB-8	11	<30	<30	<30	<89	<30	51	<30	35	8.9	11	2.7
TB-9	10	<31	<31	<31	45	<31	61	<31	<6.3	14	13	1.6
TB-10	15	<34	<34	<34	<147	<34	393	47	18	NA	12	2.9
TB-11	10	<30	<30	<30	<91	<30	<30	<30	13	NA	11	2.1
TB-12	9.5	<32	<32	<32	<45	<32	<32	<32	<6.4	9.7	12	1.8
TB-13	9	<b>282</b>	502	343	2,080	<31	245	84	34	NA	NA	NA
TB-14	9	<b>177</b>	<30	248	1,180	<30	402	118	45	<5.9	10	2.5
TB-15	9	<31	<31	<31	<43	<31	<31	<31	<6.1	<6.1	11	3.2
TB-16	13	<30	<30	<30	<42	<30	<30	<30	<6.0	7.1	12	3.4
RCL		5.5	1,500	2,900	4,100	NE	NE	NE	250	250	500	510

Units    feet    ug/kg    ug/kg    ug/kg    ug/kg    ug/kg    ug/kg    ug/kg    mg/kg    mg/kg    mg/kg    mg/kg  
Notes:

ug/kg: micrograms per kilogram

mg/kg: milligrams per kilogram

Results in bold indicate values above NR 720 Residual Contaminant Levels (RCL)

NA: not analyzed

NE: none established

MTBE: Methyl-tert-butyl-ether

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

TMB: Trimethylbenzene

TABLE 2 (continued)  
SOIL LABORATORY ANALYTICAL RESULTS - PAH's

GEOPROBE INVESTIGATION

Signature Flight Support, Inc.  
4800 South Howell Avenue  
Milwaukee, Wisconsin  
Summit Project No. 0343-031

Parameter	TB-1	TB-2	TB-3	TB-5	TB-6	TB-8	TB-9	TB-10	TB-11	TB-12	TB-14	TB-15	TB-16	RCL	
depth (feet)	15	17	15	13	13	11	10	9	10	9.5	~9	9	13	GW Pathway	Direct Cont (Ind.)
<b>PAHs (ug/kg)</b>															
Acenaphthene	<59	<61	<61	<62	NA	<60	<63	<61	<61	<64	<59	<61	<60	38,000	60,000,000
Acenaphthalene	<100	<100	<100	<110	NA	<100	<110	<100	<100	<110	<100	<100	<100	700	360,000
Anthracene	<5.9	<6.1	<6.1	<6.2	NA	<6.0	<6.3	<6.1	15	53	<5.9	<6.1	<6.0	3,000,000	300,000,000
Benzo (a) anthracene	<5.9	<6.1	<6.1	<6.2	NA	<6.0	<6.3	<6.1	18	90	<5.9	<6.1	<6.0	17,000	3,900
Benzo (b) fluoranthene	<5.9	<6.1	<6.1	<6.2	NA	<6.0	<6.3	<6.1	9.3	47	<5.9	<6.1	<6.0	48,000	390
Benzo (k) fluoranthene	<5.9	<6.1	<6.1	<6.2	NA	<6.0	<6.3	<6.1	<6.3	46	<5.9	<6.1	<6.0	870,000	39,000
Benzo (a) pyrene	<5.9	<6.1	<6.1	<6.2	NA	<6.0	<6.3	6.6	13	78	<5.9	<6.1	<6.0	48,000	390
Benzo (ghi) perylene	<5.9	<6.1	<6.1	<6.2	NA	<6.0	<6.3	8.8	16	94	<5.9	<6.1	<6.0	6,800,000	39,000
Chrysene	<5.9	<6.1	7.7	<6.2	NA	<6.0	<6.3	<6.1	15	67	<5.9	<6.1	<6.0	37,000	390,000
Dibenzo (a,h) anthracene	<12	<12	<12	<12	NA	<12	<13	<12	<12	<13	<12	<12	<12	38,000	390
Fluoranthene	<12	<12	<12	<12	NA	<12	<13	<12	56	244	<12	<12	<12	500,000	40,000,000
Fluorene	<12	<12	<12	<12	NA	<12	<13	<12	<12	<13	<12	<12	<12	100,000	40,000,000
Indeno (1,2,3-cd) pyrene	<5.9	<6.1	<6.1	<6.2	NA	<6.0	<6.3	<6.1	9.4	54	<5.9	<6.1	<6.0	680,000	3,900
1-Methylnaphthalene	<35	<37	<37	<37	NA	<36	<38	<37	<37	<38	<35	<37	<36	23,000	70,000,000
2-Methylnaphthalene	<30	<30	<31	<31	NA	<30	<31	<31	<30	<32	<30	<31	<30	20,000	40,000,000
Naphthalene	<35	<37	<37	<37	NA	<36	<38	<37	<37	<38	<35	<37	<36	400	110,000
Phenanthrene	<5.9	<6.1	<6.1	<6.2	NA	<6.0	<6.3	<6.1	35	154	<5.9	<6.1	<6.0	1,800	390,000
Pyrene	<5.9	<6.1	<6.1	<6.2	NA	<6.0	<6.3	11	34	192	<5.9	<6.1	<6.0	8,700,000	30,000,000
<b>GLYCOLS (mg/kg)</b>															
Ethylene Glycol	NA	NA	<12	<12	<12	NA	<13	NA	NA	<13	<12	NA	NA		
Propylene Glycol	NA	NA	<12	<12	<12	NA	<13	NA	NA	<13	<12	NA	NA		

ug/kg: micrograms per kilogram  
mg/kg: milligrams per kilogram  
NA: not analyzed

**TABLE 3**  
**SOIL ANALYTICAL RESULTS - PVOC and Metals**

**SOIL BORINGS**

Signature Flight Support, Inc.  
4800 South Howell Avenue  
Milwaukee, Wisconsin  
Summit Project No. 0343-031

Sample ID	Depth	Benzene	Toluene	Ethyl-benzene	m&p Xylenes	MTBE	1,2,4 TMB	1,3,5 TMB	GRO	DRO	Lead	Cadmium
B-1/MW-1	8 to 10	2,462	181,527	3,897	28,584	<1270	4,317	<1270	778	172	7	<0.12
B-1/MW-1	23 to 25	65	441	56	424	<29	113	57	29.7	27.8	3.78	0.20
B-2/MW-2	8 to 10	447	1,146	556	2,846	<37	1,516	430	71	22	6.72	<0.15
B-2/MW-2	14 to 16	<30	<30	<30	<30	148	<30	<30	<6.1	11.7	4.67	<0.12
B-3	8 to 10	73	<31	<31	<31	201	<31	<31	10.0	<6.3	5.46	<0.13
B-4/MW-3	8 to 10	47	<29	<29	<29	212	<29	<29	6.5	<5.8	3.99	<0.12
B-5/MW-4	11 to 13	<1,237	<1,237	5,006	1,901	<1,237	22,985	1,406	1,070	1,030	8.43	<0.11
B-5/MW-4	14 to 16	<34	<34	<34	<34	154	<34	<34	<6.8	7.9	5.75	<0.14
B-6/MW-5	8 to 10	<30	31	<30	<30	<30	31	32	8.4	10.8	3.82	<0.12
MW-6	9 to 11	<25	<25	<25	<25	<25	<25	<25	<6.18	<6.18	8.58	<0.618
MW-7	9 to 11	<25	<25	<25	<25	<25	<25	<25	<5.76	<5.76	8.65	<0.576
RCL		5.5	1,500	2,900	4,100	NE	NE	NE	250	250	500	510
Units	Feet	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg

NOTES:

NA: not analyzed

NE: none established

MTBE: Methyl-tert-butyl-ether

TMB: Trimethylbenzene

ug/kg: micrograms per kilogram

mg/kg: milligrams per kilogram

Results in bold indicate values above NR 720 Residual Contaminant Levels (RCL)

B-6 samples were collected on May 4, 1999

TABLE 3 (continued)  
SOIL BORING ANALYTICAL RESULTS - PAH'S

SOIL BORINGS

Signature Flight Support, Inc.  
4800 South Howell Avenue  
Milwaukee, Wisconsin  
Summit Project No. 0343-031

Sample depth (feet):	B-1/MW-1	B-1/MW-1	B-2/MW-2	B-2/MW-2	B-3	B-4/MW-3	B-5/MW-4	B-5/MW-4	B-6/MW-5	MW-6	MW-7	RCL	
	8 to 10	23 to 25	8 to 10	14 to 16	8 to 10	8 to 10	11 to 13	14 to 16	8 to 10	9 to 11	9 to 11	GW Pathway	Direct Cont (Ind.)
PAH													
Acenaphthene	<3.5	<3.3	<4.3	<3.5	<3.6	<3.3	<3.3	<3.9	9.4	<124	<115	38,000	60,000,000
Acenaphthylene	<1.2	<1.1	<1.5	<1.2	<1.3	<1.2	<1.1	<1.4	<1.2	<247	<230	700	360,000
Anthracene	<3.9	<3.7	170	<3.9	<4	<3.7	<3.6	<4.3	64.8	<124	<115	3,000,000	300,000,000
Benzo (a) anthracene	14.8	<1.6	283	<1.7	<1.8	<1.6	9.4	<1.9	140	<61.8	<57.6	17,000	3,900
Benzo (b) fluoranthene	16.5	4.94	334	7.01	<3	<2.8	8.98	9.2	165	<61.8	<57.6	48,000	390
Benzo (k) fluoranthene	5.25	<2.8	132	<2.9	<3	<2.8	<2.7	<3.3	60.6	<124	<115	870,000	39,000
Benzo (a) pyrene	21.2	<4.7	283	<5	<5.1	<4.7	10.6	<5.6	146	<6.18	<5.76	48,000	390
Benzo (ghi) perylene	<3.9	<3.7	253	<3.9	<4	<3.7	<3.6	<4.3	114	<124	<115	6,800,000	39,000
Benzofluorene	7.37	3.43	333	4.36	<2	<1.8	7.76	5.51	195	<124	<115	37,000	390,000
Dibenzo (a,h) anthracene	<4.2	<3.9	8.22	<4.1	<4.3	<3.9	<3.9	<4.6	18.4	<6.18	<5.76	38,000	390
Fluoranthene	<3.2	<3	655	<3.2	<3.3	<3	<3	<3.5	351	<124	<115	500,000	40,000,000
Fluorene	123	<3.1	76.2	<3.3	<3.4	<3.1	157	<3.7	13.8	<124	<115	100,000	40,000,000
Indeno (1,2,3-cd) pyrene	<3.4	<3.2	294	<3.4	<3.5	<3.2	3.98	<3.8	105	<61.8	<57.6	680,000	3,900
1-Methylnaphthalene	1,250	6.87	232	<4.5	<4.6	<4.3	2,260	<5	10.5	<124	<115	23,000	70,000,000
2-Methylnaphthalene	2,200	13.3	393	<5.2	<5.4	<5	1,380	7.36	11.3	<124	<116	20,000	40,000,000
Naphthalene	767	<1.4	141	<1.5	<1.5	<1.4	14.8	<1.6	6.47	<124	<117	400	110,000
Phenanthrene	<2.7	10	473	<2.7	<2.8	<2.5	<2.5	<3	126	<124	<118	1,800	390,000
Pyrene	<4.5	<4.2	265	<4.5	<4.6	<4.3	<4.2	<5	266	<124	<119	8,700,000	30,000,000

NOTES:  
 µg/kg: micrograms per kilogram  
 Results in bold indicate value above generic RCL (groundwater pathway)  
 RCL: residual contaminant level

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - PVOC, DRO, GRO, AND METALS**  
**Signature Flight Support, Inc.**  
**4800 South Howell Avenue**  
**Milwaukee, Wisconsin**  
**Summit Project No. 0343-031**

Well ID	Date	Benzene	n-Butyl-benzene	n-Propyl-benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TMB 1,2,4	TMB 1,3,5	GRO	DRO	Lead	Cadmium
MW-1	2/24/1999	340	<100	<100	34,900	558	5,280	<100	379	105	NA	14,700	13	<0.26
	9/14/2000	52	NA	NA	13,500	317	6,780	<20	731	331	77,100	53,600	517	NA
	4/25/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/26/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/1/2003	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/14/2003	<30	NS	NS	<22	<30	520	<30	83	<36	NA	NA	NA	NA
	5/26/2004	<23	NA	NA	230	42	910	<22	75	<23	NA	NA	NA	NA
MW-2	2/24/1999	147	<20	<20	133	124	518	27	64.20	<20	NA	1,200	10.8	<0.26
	9/14/2000	5.55	NA	NA	2.48	3.93	5.00	<0.20	1.36	6.49	1,940	5,220	5.6	NA
	4/25/2002	2.20	NA	NA	1.48	0.81	3.16	5	<1	2.70	1,810	4,040	<5	<0.5
	11/26/2002	10	NA	NA	<6.4	<6.3	<15	<6.2	<6.5	<6.6	NA	NA	NA	NA
	8/1/2003	3.70	NA	NA	1.20	0.77	4.30	11.00	0.89	<0.6	NA	NA	NA	NA
	11/14/2003	2.60	NA	NA	<1.2	<0.94	1.90	6	<1.0	<1.4	NA	NA	NA	NA
	5/26/2004	69	NA	NA	150.00	<2.1	10.00	160	<2.7	<2.3	NA	NA	NA	NA
MW-3	2/24/1999	3.06	<1	<1	1.56	<1	<1	<1	<1	<1	NA	187.0	<1	<0.26
	9/14/2000	<0.50	NA	NA	<0.50	<0.50	<0.50	<0.20	<1.00	<1.00	<50	<100	5.08	NA
	4/25/2002	<0.5	NA	NA	<0.5	<0.5	<0.5	1	<1	<1	<50	149.0	<5	<0.5
	11/26/2002	<0.61	NA	NA	<0.64	<0.63	<1.5	2.20	<0.65	<0.66	NA	NA	NA	NA
	8/1/2003	<0.45	NA	NA	<0.61	<0.47	<1.59	2.00	<0.51	<0.72	NA	NA	NA	NA
	11/14/2003	<0.45	NA	NA	<0.61	<0.47	<1.59	ND	<0.51	<0.72	NA	NA	NA	NA
	5/26/2004	<0.45	NA	NA	<0.50	<0.42	<1.36	<0.45	5.10	<0.46	NA	NA	NA	NA
MW-4	2/24/1999	1,090	84.9	151	<50	314	219	1,560	420	53.2	NA	19,800	5.02	0.33
	9/14/2000 *	1,530	NA	NA	28.6	492	88.3	255	NA	179.8	6,410	2,130	NA	NA
ES		5.0	NE	NE	1,000	700	10,000	60	480	480	NE	NE	15	5
PAL		0.5	NE	NE	200	140	1,000	12	96	96	NE	NE	1.5	0.5

Results expressed in micrograms per liter (ug/L)

NA: not analyzed

NE: none established

MTBE: Methyl-tert-butyl-ether

NS: not sampled for the parameter

TMB: Trimethylbenzenes

\* Sample collected by Kapur & Associates prior to abandoning well.

ES: NR 140 Enforcement Standards

PAL: NR 140 Preventive Action Limit

Results in bold indicate value exceeds the ES

*Italicized* results indicate value exceeds the PAL

**TABLE 2 (Continued)**  
**GROUNDWATER ANALYTICAL RESULTS**  
**Signature Flight Support, Inc.**  
**4800 South Howell Avenue**  
**Milwaukee, Wisconsin**  
**Summit Project No. 0343-031**

Well ID	Date	Benzene	n-Butyl-benzene	n-Propyl-benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TMB 1,2,4	TMB 1,3,5	GRO	DRO	Lead	Cadmium
MW-4R	4/25/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/26/2002	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/1/2003	350	NA	NA	<30	<i>340</i>	470.0	11	280	<36	NA	NA	NA	NA
	11/13/2003	530	NA	NA	<30	<i>440</i>	660.0	210	600	110	NA	NA	NA	NA
	5/25/2004	490	NA	NA	120.0	260	370.0	<8.9	230	16	NA	NA	NA	NA
MW-5	5/7/1999	0.354	<0.5	<0.5	<0.5	<0.5	0.998	<0.3	0.62	<0.5	<50	2,460	<1	<0.26
	9/14/2000	<5.00	NA	NA	<5.00	<5.00	<5.00	<2.00	<10.0	<10.0	<500	959	10.4	NA
	4/25/2002	<0.5	NA	NA	<0.5	<0.5	<0.5	0.469	<1	<1	<50	1,750	5.2	<0.5
	11/26/2002	<0.61	NA	NA	<0.64	<0.63	<1.5	<0.62	<0.65	<0.66	NA	NA	NA	NA
	8/1/2003	<0.45	NA	NA	<0.61	<0.47	<1.59	<0.6	<0.51	<0.72	NA	NA	NA	NA
	11/13/2003	<0.45	NA	NA	<0.61	<0.47	<1.59	<0.6	<0.51	<0.72	NA	NA	NA	NA
	5/25/2004	<0.45	NA	NA	<0.50	<0.42	<1.36	<0.45	<0.53	<0.46	NA	NA	NA	NA
MW-6	4/25/2002	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.2	<1	<1	<50	211	<5	<0.5
	11/26/2002	<0.61	NA	NA	<0.64	<0.63	<1.5	<0.62	<0.65	<0.66	NA	NA	NA	NA
	8/1/2003	<0.45	NA	NA	<0.61	<0.47	<1.59	<0.6	<0.51	<0.72	NA	NA	NA	NA
	11/13/2003	<0.45	NA	NA	<0.61	<0.47	<1.59	<0.6	<0.51	<0.72	NA	NA	NA	NA
	5/25/2004	<0.45	NA	NA	<0.50	<0.42	<1.36	<0.45	<0.53	<0.46	NA	NA	NA	NA
MW-7	4/25/2002	<0.5	NA	NA	<0.5	<0.5	<0.5	<0.2	<1	<1	<50	326	<5	<0.5
	11/26/2002	<0.61	NA	NA	<0.64	<0.63	<1.5	<0.62	<0.65	<0.66	NA	NA	NA	NA
	8/1/2003	<0.45	NA	NA	<0.61	<0.47	<1.59	<0.6	<0.51	<0.72	NA	NA	NA	NA
	11/13/2003	<0.45	NA	NA	<0.61	<0.47	<1.59	<0.6	<0.51	<0.72	NA	NA	NA	NA
	5/25/2004	<0.45	NA	NA	<0.50	<0.42	<1.36	<0.45	<0.53	<0.46	NA	NA	NA	NA
ES		5.0	NE	NE	1,000	700	10,000	60	480	480	NE	NE	15	5
PAL		0.5	NE	NE	200	140	1,000	12	96	96	NE	NE	1.5	0.5

Results expressed in micrograms per liter (ug/L)

NA: not analyzed

NE: none established

MTBE: Methyl-tert-butyl-ether

NS: not sampled for the parameter

TMB: Trimethylbenzenes

\* Sample collected by Kapur & Associates prior to abandoning well.

ES: NR 140 Enforcement Standards

PAL: NR 140 Preventive Action Limit

Results in bold indicate value exceeds the ES

*Italicized* results indicate value exceeds the PAL

**TABLE 3  
GROUNDWATER ANALYTICAL RESULTS - PAH**

Signature Flight Support, Inc.  
4800 Howell Avenue  
Milwaukee, Wisconsin  
Summit Project No. 0343-031

PAH	MW-1						MW-2						ES	PAL
	2/24/1999	9/14/2000	4/25/2002	8/1/2003	11/13/2003	5/25/2004	2/24/1999	9/14/2000	4/25/2002	8/1/2003	11/13/2003	5/25/2004		
Acenaphthene	<0.1	<25	NS	NS	<0.022	0.66	<0.1	<5.00	5	0.45	<0.022	0.02	NE	NE
Acenaphthylene	<0.1	<20	NS	NS	<0.082	0.10	<0.1	<4.00	5	<0.082	<0.082	<0.050	NE	NE
Anthracene	<0.09	1.43	NS	NS	1.8	<0.024	<0.09	<0.20	5	<0.026	<0.026	<0.012	3000	600
Benzo (a) anthracene	0.208	0.105	NS	NS	<0.019	<0.032	<0.05	<0.010	<0.1	<0.019	<0.019	<0.016	NE	NE
Benzo (a) pyrene	<i>0.04</i>	<i>0.149</i>	NS	NS	<0.018	<0.021	<i>0.055</i>	<0.020	5	<0.018	<0.018	<0.011	0.2	0.02
Benzo (b) fluoranthene	0.253	0.106	NS	NS	<0.020	<0.036	<0.04	<0.020	<0.02	<0.020	<0.020	<0.018	NE	NE
Benzo (ghi) perylene	0.084	<0.30	NS	NS	<0.021	<0.023	<0.06	<0.060	<0.1	<0.021	<0.021	<0.011	NE	NE
Benzo (k) fluoranthene	0.174	0.0692	NS	NS	<0.018	<0.025	<0.06	<0.010	<0.02	<0.018	<0.018	<0.012	NE	NE
Chrysene	0.175	<0.250	NS	NS	<0.018	<0.042	<0.05	<0.050	<0.02	<0.018	<0.018	<0.021	NE	NE
Dibenzo (a,h) anthracene	<0.1	<0.100	NS	NS	<0.051	<0.032	<0.1	<0.020	<0.1	<0.051	<0.051	<0.016	NE	NE
Fluoranthene	<0.06	5.01	NS	NS	0.063	0.67	<0.06	<1.00	5	<0.012	0.063	<0.010	NE	NE
Fluorene	5.84	5.10	NS	NS	1.4	0.56	<0.07	<1.00	5	0.032	<0.022	0.022	400	80
Indeno (1,2,3-cd) pyrene	0.095	<2.00	NS	NS	<0.022	<0.074	<0.07	<0.400	<0.02	<0.022	<0.022	<0.037	NE	NE
1-Methylnaphthalene	78	100	NS	NS	28	32	1.2	<3.00	5	0.57	0.079	0.11	NE	NE
2-Methylnaphthalene	175	132	NS	NS	17	30	2.53	<3.00	5	0.31	<0.037	0.14	NE	NE
Naphthalene	<b>69.4</b>	<b>90.2</b>	NS	NS	5.7	24	0.6	<3.00	5	0.7	<0.013	0.2	40	8
Phenanthrene	<0.08	12.4	NS	NS	2.3	1.1	<0.08	<0.300	5	<0.03	<0.03	0.035	NE	NE
Pyrene	<0.11	<5.00	NS	NS	<0.013	0.55	<0.11	<1.00	5	<0.013	<0.013	<0.011	250	50

Results are expressed in micrograms per liter (ug/L)

Results in bold indicate values above NR 140 Enforcement Standards (ES)

*Italicized* results indicate value exceeds the NR 140 Preventive Action Limit (PAL)

NE = Not Established

NS = Not Sampled

TABLE 3 (Continued)  
GROUNDWATER ANALYTICAL RESULTS - PAH

Signature Flight Support, Inc.  
4800 Howell Avenue  
Milwaukee, Wisconsin  
Summit Project No. 0343-031

PAH	MW-3						MW-4/MW-4R						ES	PAL
	2/24/1999	9/14/2000	4/25/2002	8/1/2003	11/13/2003	5/25/2004	2/24/1999	9/14/2000	4/25/2002	8/1/2003	11/13/2003	5/25/2004		
Acenaphthene	<0.1	<5.00	5	<0.022	<0.022	<0.016	<0.1	5	NS	<2.2	2.2	1.4	NE	NE
Acenaphthylene	<0.1	<4.00	5	<0.082	<0.082	<0.050	<0.1	<4	NS	<8.2	<2.0	<0.50	NE	NE
Anthracene	<0.09	<0.20	5	<0.026	<0.026	<0.012	<0.09	<0.2	NS	<2.6	<0.65	0.81	3000	600
Benzo (a) anthracene	<0.05	<0.010	<0.1	<0.019	<0.019	<0.016	0.169	<0.01	NS	<1.9	<0.47	0.48	NE	NE
Benzo (a) pyrene	<0.04	<0.020	<0.02	<0.018	<0.018	<0.011	0.22	<0.02	NS	<1.8	<0.44	<0.11	0.2	0.02
Benzo (b) fluoranthene	<0.04	<0.020	<0.02	<0.020	<0.020	<0.018	0.134	<0.02	NS	<2.0	<0.50	<0.18	NE	NE
Benzo (ghi) perylene	<0.06	<0.060	5	<0.021	<0.021	<0.011	<0.06	<0.06	NS	<2.1	<0.54	<0.11	NE	NE
Benzo (k) fluoranthene	<0.06	<0.010	<0.1	<0.018	<0.018	<0.012	<0.06	<0.01	NS	<1.8	<0.45	0.48	NE	NE
Chrysene	<0.05	<0.050	<0.02	<0.018	<0.018	<0.021	0.142	<0.05	NS	<1.8	<0.44	<0.21	NE	NE
Dibenzo (a,h) anthracene	<0.1	<0.020	<0.1	<0.051	<0.051	<0.016	<0.1	<0.02	NS	<5.1	<1.3	<0.16	NE	NE
Fluoranthene	<0.06	<1.00	5	<0.012	<0.012	<0.010	<0.06	<1	NS	17	<0.30	1.4	NE	NE
Fluorene	<0.07	<1.00	5	<0.022	<0.022	<0.015	3.51	<1	NS	9.3	2.9	1.9	400	80
Indeno (1,2,3-cd) pyrene	<0.07	<0.400	<0.02	<0.022	<0.022	<0.037	<0.07	<0.4	NS	<2.2	<0.54	<0.37	NE	NE
1-Methylnaphthalene	<0.09	<3.00	5	<0.02	<0.02	<0.012	53.2	40.8	NS	250	75	54	NE	NE
2-Methylnaphthalene	<0.08	<3.00	5	<0.037	<0.037	<0.018	69.3	49.9	NS	360	87	65	NE	NE
Naphthalene	<0.08	<3.00	5	<0.013	<0.013	<0.014	14.3	30.9	NS	180	51	24	40	8
Phenanthrene	<0.08	<0.300	5	<0.03	<0.03	<0.017	1.89	0.416	NS	21	2.4	2.1	NE	NE
Pyrene	<0.11	<1.00	5	<0.013	<0.013	<0.011	<0.11	<1	NS	<1.3	<0.75	0.93	250	50

Results are expressed in micrograms per liter (ug/L)

Results in bold indicate values above NR 140 Enforcement Standards (ES)

*Italicized* results indicate value exceeds the NR 140 Preventive Action Limit (PAL)

NE = Not Established

NS = Not Sampled

TABLE 3 (Continued)  
GROUNDWATER ANALYTICAL RESULTS - PAH

Signature Flight Support, Inc.  
4800 Howell Avenue  
Milwaukee, Wisconsin  
Summit Project No. 0343-031

PAH	MW-5						MW-6				ES	PAL
	2/24/1999	9/14/2000	4/25/2002	8/1/2003	11/13/2003	5/25/2004	4/25/2002	8/1/2003	11/13/2003	5/25/2004		
Acenaphthene	<0.1	<5.00	<5.81	<0.022	<0.022	0.017	♁	<0.022	<0.022	<0.016	NE	NE
Acenaphthylene	<0.1	<4.00	<5.81	<0.082	<0.082	<0.050	♁	<0.082	<0.082	<0.050	NE	NE
Anthracene	<0.09	<0.20	<5.81	<0.026	<0.026	0.074	♁	<0.026	<0.026	<0.012	3000	600
Benzo (a) anthracene	<0.05	<0.010	<0.116	<0.019	<0.019	0.088	<0.1	<0.019	<0.019	<0.016	NE	NE
Benzo (a) pyrene	0.07	<0.020	<0.0233	<0.018	<0.018	0.17	<0.02	<0.018	<0.018	<0.011	0.2	0.02
Benzo (b) fluoranthene	0.072	<0.020	<0.0233	<0.020	<0.020	0.35	<0.02	<0.020	<0.020	<0.018	NE	NE
Benzo (ghi) perylene	<0.06	<0.060	<5.81	<0.021	<0.021	0.27	♁	<0.021	<0.021	<0.011	NE	NE
Benzo (k) fluoranthene	<0.06	<0.010	<0.116	<0.018	<0.018	0.12	<0.1	<0.018	<0.018	<0.012	NE	NE
Chrysene	<0.05	<0.050	<0.0233	<0.018	<0.018	0.21	<0.02	<0.018	<0.018	<0.021	NE	NE
Dibenzo (a,h) anthracene	<0.1	<0.020	<0.116	<0.051	<0.051	0.2	<0.1	<0.051	<0.051	<0.016	NE	NE
Fluoranthene	0.25	<1.00	<5.81	0.076	<0.012	0.54	♁	<0.012	<0.012	<0.010	NE	NE
Fluorene	<0.07	<1.00	<5.81	<0.022	<0.022	0.025	♁	<0.022	<0.022	<0.015	400	80
Indeno (1,2,3-cd) pyrene	<0.07	<0.400	<0.0233	<0.022	<0.022	0.47	<0.02	<0.022	<0.022	<0.037	NE	NE
1-Methylnaphthalene	0.142	<3.00	<5.81	<0.02	<0.02	<0.012	♁	<0.02	<0.02	<0.012	NE	NE
2-Methylnaphthalene	0.119	<3.00	<5.81	<0.037	<0.037	0.14	♁	<0.037	<0.037	<0.018	NE	NE
Naphthalene	0.1	<3.00	<5.81	<0.013	<0.013	0.14	♁	<0.013	<0.013	<0.014	40	8
Phenanthrene	0.117	<0.300	<5.81	0.054	<0.03	0.29	♁	<0.03	<0.03	<0.017	NE	NE
Pyrene	0.224	<1.00	<5.81	0.079	<0.013	0.4	♁	<0.013	<0.013	<0.011	250	50

Results are expressed in micrograms per liter (ng/L)

Results in **bold** indicate values above NR 140 Enforcement Standards (ES)

*Italicized* results indicate value exceeds the NR 140 Preventive Action Limit (PAL)

NE = Not Established

**TABLE 3 (Continued)**  
**GROUNDWATER ANALYTICAL RESULTS - PAH**  
 Signature Flight Support, Inc.  
 4800 Howell Avenue  
 Milwaukee, Wisconsin  
 Summit Project No. 0343-031

MW-7

PAH	4/25/2002	8/1/2003	11/13/2003	5/25/2004	ES	PAL
Acenaphthene	NS	<0.022	<0.022	<0.016	NE	NE
Acenaphthylene	NS	<0.082	<0.082	<0.050	NE	NE
Anthracene	NS	<0.026	<0.026	<0.012	3000	600
Benzo (a) anthracene	<0.1	<0.019	<0.019	<0.016	NE	NE
Benzo (a) pyrene	<0.02	<0.018	<0.018	<0.011	0.2	0.02
Benzo (b) fluoranthene	<0.02	<0.020	<0.020	<0.018	NE	NE
Benzo (ghi) perylene	NS	<0.021	<0.021	<0.011	NE	NE
Benzo (k) fluoranthene	<0.1	<0.018	<0.018	<0.012	NE	NE
Chrysene	<0.02	<0.018	<0.018	<0.021	NE	NE
Dibenzo (a,h) anthracene	<0.1	<0.051	<0.051	<0.016	NE	NE
Fluoranthene	NS	<0.012	<0.012	<0.010	NE	NE
Fluorene	NS	<0.022	<0.022	<0.015	400	80
Indeno (1,2,3-cd) pyrene	<0.02	<0.022	<0.022	<0.037	NE	NE
1-Methylnaphthalene	NS	<0.02	<0.02	<0.012	NE	NE
2-Methylnaphthalene	NS	<0.037	<0.037	<0.018	NE	NE
Naphthalene	NS	<0.013	<0.013	<0.014	40	8
Phenanthrene	NS	<0.03	<0.03	<0.017	NE	NE
Pyrene	NS	<0.013	<0.013	<0.011	250	50

Results are expressed in micrograms per liter (ug/L)

Results in **bold** indicate values above NR 140 Enforcement Standards (ES)

*Italicized* results indicate value exceeds the NR 140 Preventive Action Limit (PAL)

NE = Not Established

NS = Not Sampled (monitoring well not installed)

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS  
SIGNATURE FLIGHT SUPPORT - MITCHELL INTERNATIONAL AIRPORT  
MILWAUKEE, WISCONSIN

Constituent	Chapter NR 140 Groundwater Standards		MW-3 3/27/2009	MW-4R 3/27/2009	DUP-1 (MW-4R) 3/27/2009	MW-5 3/27/2009	MW-6 3/27/2009	MW-7 3/27/2009	MW-8 3/27/2009
	ES <sup>1</sup>	PAL <sup>2</sup>							
	ES	PAL							
<b>Volatile Organic Compounds</b>									
Benzene	5	0.5	<0.23	57.2	58.7	<0.23	<0.23	<0.23	<0.23
Ethylbenzene	700	140	<0.40	7.9	8.6	<0.40	<0.40	<0.40	10.7
Methyl-tert-butyl ether	60	12	<0.36	15.1	15.7	0.18	<0.36	<0.36	46.5
Toluene	1000	200	0.45	1.1	1.1	<0.36	<0.36	<0.36	<0.36
m&p Xylene	NE	NE	<0.74	1.2	1.4	<0.74	<0.74	<0.74	1.6
o-Xylene	NE	NE	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Total Xylenes	10,000	1,000	-	1.2	1.4	-	-	-	1.6
1,2,4-Trimethylbenzene	NE	NE	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	0.53
1,3,5-Trimethylbenzene	NE	NE	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Trimethylbenzenes (combined)	480	96							0.53
<b>Polycyclic Aromatic Hydrocarbons</b>									
Acenaphthene	NE	NE	0.017	0.086	NA	<0.0079	<0.0079	<0.0080	0.011
Acenaphthylene	NE	NE	<0.0050	0.10	NA	0.016	0.049	<0.0051	0.02
Anthracene	3,000	600	0.0082	0.099	NA	0.076	0.045	<0.0066	0.018
Benzo(a)anthracene	NE	NE	0.025	0.16	NA	0.036	0.093	<0.0035	<0.0035
Benzo(a)pyrene	0.2	0.02	0.031	0.13	NA	0.058	0.21	<0.0055	<0.0055
Benzo(a)fluoranthene	0.2	0.02	0.036	0.12	NA	0.10	0.20	<0.0052	<0.0052
Benzo(g,h,i)perylene	NE	NE	0.025	0.072	NA	0.078	0.20	<0.0064	<0.0063
Benzo(k)fluoranthene	NE	NE	0.034	0.13	NA	0.083	0.18	<0.0079	<0.0078
Chrysene	0.2	0.02	0.038	0.15	NA	0.086	0.12	<0.0071	<0.0071
Dibenz(a,h)anthracene	NE	NE	0.0059	0.023	NA	0.017	0.05	<0.0044	<0.0043
Fluoranthene	400	80	0.078	0.33	NA	0.13	0.16	<0.0054	<0.0054
Fluorene	400	80	<0.0063	0.24	NA	<0.0063	<0.0063	<0.0064	0.099
Indeno(1,2,3-cd)pyrene	NE	NE	0.019	0.065	NA	0.063	0.16	<0.0037	<0.0036
1-Methylnaphthalene	NE	NE	0.042	8.5	NA	<0.0096	<0.0096	<0.0097	0.87
2-Methylnaphthalene	NE	NE	<0.011	10.9	NA	<0.011	<0.011	<0.011	1.1
Naphthalene	100	10	0.2	1.4	NA	<0.017	0.031	<0.017	1.1
Phenanthrene	NE	NE	0.034	0.25	NA	0.052	0.016	<0.0076	0.032
Pyrene	250	50	0.057	0.30	NA	0.1	0.18	<0.0069	<0.0068

## NOTES:

- 2<sup>(1)</sup> Groundwater Preventive Action Limits (PAL) set forth in Wisconsin Administrative code ch NR140.10, Table 1  
1<sup>(2)</sup> Groundwater Enforcement Standards (ES) set forth in Wisconsin Administrative code ch NR140.10, Table 1

## KEY:

All units are micrograms per liter (ug/L) unless otherwise indicated.

Boxed values exceed the Enforcement Standard (ES) and bold values exceed the Preventive Action Limit (PAL).

NA denotes sample not analyzed for listed constituent.

NE denotes that a groundwater Enforcement Standard or Prevention Action Limit has not been established.

J: Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
**Signature Flight Support, Inc.**  
**4800 South Howell Avenue**  
**Milwaukee, Wisconsin**  
**Summit Project No. 0343-031**

Monitoring Well	Date Measured	Top of Casing Elevation	Depth to Product	Depth to Water	Product Thickness	Groundwater Elevation
MW-1	5/14/1999	93.32	14.18	15.28	1.10	78.81
	8/26/1999		15.33	19.82	4.49	76.64
	9/9/1999		16.23	17.61	1.38	76.68
	9/14/2000		14.08	14.57	0.49	79.09
	4/25/2002		14.51	14.74	0.23	78.74
	8/1/2003		18.37	18.38	0.01	74.95
	11/13/2003			18.60		74.72
	*5/26/2004			13.43		79.89
MW-2	5/14/1999	94.77		15.95		78.82
	8/18/1999			16.70		78.07
	9/14/2000			16.26		78.51
	4/25/2002			16.21		78.56
	8/1/2003			16.56		78.21
	11/13/2003			16.57		78.20
	5/26/2004			15.23		79.54
MW-3	5/14/1999	90.89		9.85		81.04
	8/18/1999			10.01		80.88
	9/14/2000			10.00		80.89
	4/25/2002			10.06		80.83
	8/1/2003			10.20		80.69
	11/13/2003			10.23		80.66
	5/26/2004			10.07		80.82
MW-4	5/14/1999	90.28		11.73		78.55
	8/18/1999			12.71		77.57
	8/29/2000			12.10		78.18
<b>ABANDONED</b>						
MW-4R	4/25/2002	91.07		12.71	SHEEN	78.36
	8/1/2003			14.50		76.57
	11/13/2003			14.58		76.49
	5/26/2004			11.65		79.42

**TABLE 1 (Continued)**  
**GROUNDWATER ELEVATION DATA**  
**Signature Flight Support, Inc.**  
**4800 South Howell Avenue**  
**Milwaukee, Wisconsin**  
**Summit Project No. 0343-031**

Monitoring Well	Date Measured	Top of Casing Elevation	Depth to Product	Depth to Water	Product Thickness	Groundwater Elevation
MW-5	5/14/1999	89.87		9.94		79.93
	8/18/1999			11.14		78.73
	9/14/2000			9.10		80.77
	4/25/2002			10.15		79.72
	8/1/2003			11.77		78.10
	11/13/2003			11.57		78.30
	**5/26/2004			8.42		81.45
MW-6	4/25/2002	90.03		12.00		78.03
	8/1/2003			13.11		76.92
	11/13/2003			12.91		77.12
	5/26/2004			10.23		79.80
MW-7	4/25/2002	90.67		13.30		77.37
	8/1/2003			14.45		76.22
	11/13/2003			14.53		76.14
	5/26/2004			11.76		78.91

Notes:

\* = Protop and casing were bent, need to resurvey casing for accurate elevation measurements.

\*\* = Had to cut casing down due to frost heave, need to resurvey for accurate elevation measurements.

**TABLE 1**

**GROUNDWATER ELEVATIONS  
SIGNATURE FLIGHT SUPPORT - MITCHELL INTERNATIONAL AIRPORT  
MILWAUKEE, WISCONSIN**

MONITORING WELL IDENTIFICATION		MW-3	MW-4R	MW-5	MW-6	MW-7	MW-8
DATE INSTALLED		Feb-99	Sep-00	May-99	Sep-00	Sep-00	Mar-09
TOP OF CASING ELEVATION	(FT)	98.80	100.03	98.89	99.64	100.13	99.73
GROUNDWATER ELEVATIONS (measured 3/27/09)							
DEPTH TO WATER	(FT)	10.41	12.66	9.95	11.74	13.05	11.78
RELATIVE ELEVATION	(FT)	88.39	87.37	88.94	87.9	87.08	87.95

NOTES: Elevations are relative to benchmark set at 100 feet.  
Benchmark is NW corner of site transformer (shown on Figure 2)

SOURCE  
PROPERTY

Environmental  
Resources  
Management

700 W. Virginia St.  
Suite 601  
Milwaukee, WI 53204  
414-289-9505  
414-289-9552 (fax)

31 March 2010

Mr. Greg Failey  
Environmental Manager  
Milwaukee County - Mitchell Airport  
5300 South Howell Ave  
Milwaukee, WI 53207

RE: Notification to Current Source Property Owner  
Signature Flight Support - West Fuel Facility  
WDNR FID#241966890, BRRTS #03-41-193286  
ERM Project No. 0091715



Dear Mr. Failey

On behalf of Signature Flight Support Corporation (Signature), Environmental Resources Management (ERM) has prepared this Notification Letter to inform the current owner, Milwaukee County - Mitchell International Airport, of residual petroleum contamination at Signature's former West Fuel Facility located at 4800 South Howell Avenue, Milwaukee, Wisconsin.

In summary, analytical data have indicated residual soil and groundwater petroleum contaminants in excess of regulatory default values. However, risk to the environment or human health will be controlled with the use of engineering and deed restriction controls. A concrete apron associated with future use of the area will restrict direct contact with affected soil. Risk associated with the residual groundwater contamination will be reduced through the use of a groundwater use restriction. This was documented in the August 2009 Case Closure Request Report submitted to WDNR, and a copy of this report was provided to you. If you need another copy of the report, ERM can provide this to you upon request.

If you have any questions, please feel free to call me at (414) 977-4713.

Sincerely,

A handwritten signature in black ink, appearing to read "Ken Potrykus".

Ken Potrykus  
*Project Manager*

cc: Doug Drescher - Signature Flight  
Mike Morgan - BBA Aviation