

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

May, 2009  
(RR 5367)

**Source Property Information**

CLOSURE DATE:

BRRTS #:

FID #:

ACTIVITY NAME:

DATCP #:

PROPERTY ADDRESS:

COMM #:

MUNICIPALITY:

PARCEL ID #:

**\*WTM COORDINATES:**

**WTM COORDINATES REPRESENT:**

X:  Y:

*\* 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 \*\*SSRCL (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 #:

03-41-552923

PARCEL ID #:

4991210000

ACTIVITY NAME:

Howell Avenue Property

WTM COORDINATES:

X: 690806

Y: 283217

**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: Uriel B Smith's Subdivision**

**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 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 Plan 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: Soil Quality Map**

BRRTS #: 03-41-552923

ACTIVITY NAME: Howell Avenue Property

**MAPS (continued)**

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

Figure #: Title:

Figure #: Title:

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

*Note: This is intended to show the total area of contaminated groundwater.*

Figure #: 4 Title: Groundwater Quality 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 #: Title:

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 #: 1 Title: Soil Analytical Quality 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 Quality 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 #: Title:

**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 #: 03-41-552923

ACTIVITY NAME: Howell Avenue Property

**NOTIFICATIONS**

**Source Property**

- Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.
- Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

**Off-Source Property**

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

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

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

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

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



## 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

October 28, 2009

Mr. Mark Gatton  
Howell Avenue Property  
400 South Wildwood Avenue  
Crandon, WI 54520

Subject: Case Closure With Land Use Limitations or Conditions And NR 140 PAL Exemption  
Howell Avenue Property  
2314-2320 South Howell Avenue, Milwaukee, Wisconsin 53207  
FID#: 341169620; BRRTS#: 03-41-552923

Dear Mr. Gatton:

The Department of Natural Resources (Department) has completed the review of your request for closure. The Department evaluates environmental remediation cases for compliance with state statutes and rules to maintain consistency in the closure of these cases. Information submitted to the Department for closure request includes documents for soil GIS registry.

Based on the correspondence and data provided, the Department has determined that the soil and groundwater PAH and/or petroleum hydrocarbon contamination on your site related to tank systems or historical use of the property appear to have been investigated and remediated to the extent practicable under site conditions and meets the requirements of ch. NR 726, Wis. Adm. Code. Thus, the Department considers this case closed and no further investigation, remediation or other action is required at this time.

Please be aware that this 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 the environment.

### **FUTURE EXCAVATION OF RESIDUAL CONTAMINATED SOIL**

Residual soil contamination remains at the site in the vicinity of GP-1/1A and GP-2/2A, as indicated in the information (Figure 3 - Soil Quality Map / Approximate Extent of Soil Impacts > RCLs), submitted to the Department. If soils in these specific locations are excavated in the future, the property owner at the time of excavation will be required to sample and analyze the excavated soils to determine whether the contamination still remains. All current and future owners and/or occupants of the property need to be aware that excavation of the contaminated soils may pose an inhalation or other direct contact hazard at the time of excavation. Special precautions may need to be taken during excavation activities to prevent a direct contact health threat to humans. Based upon the results of sample analysis, the current owner will also have to properly store, treat, or dispose of any excavated materials, in accordance with state and federal laws.

Recent groundwater monitoring data at this site indicates exceedances of the NR 140 preventive action limit (PAL) for Benzo(b)fluoranthene and Chrysene at TW-1/ TW-1A , but compliance with the NR 140 enforcement standard.

Mr. Mark Gattton  
RE: Case Closure with Land Use Limitations or Conditions And NR 140 PAL Exemption  
Howell Avenue Property  
2314-2320 South Howell Avenue, Milwaukee, Wisconsin 53207  
Page 2; October 28, 2009

The Department may grant an exemption to a PAL for a substance of public health concern, 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.
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 the above criteria have been or will be met due to delineation and low-level soil and groundwater impacts identified on the property. Therefore, pursuant to s. NR 140.28(2)(b), Wis. Adm. Code, an exemption to the PAL is granted for Benzo(b)fluoranthene and Chrysene at TW-1/ TW-1A . This letter serves as your exemption.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. 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), 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://www.dnr.state.wi.us/org/water/dwg/3300254.pdf> or at the web address listed above.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision, please contact Eric Amadi at (414) 263-8639.

Sincerely,

  
James A. Schmidt  
Southeast Region Remediation & Redevelopment Team Supervisor

cc: Tim Wimmer - Sigma Environmental Services, Inc. / Bill Phelps - DG/2  
SER Case File #: 03-41-552923

Attachment: (Figure 3 - Soil Quality Map / Approximate Extent of Soil Impacts > RCLs)



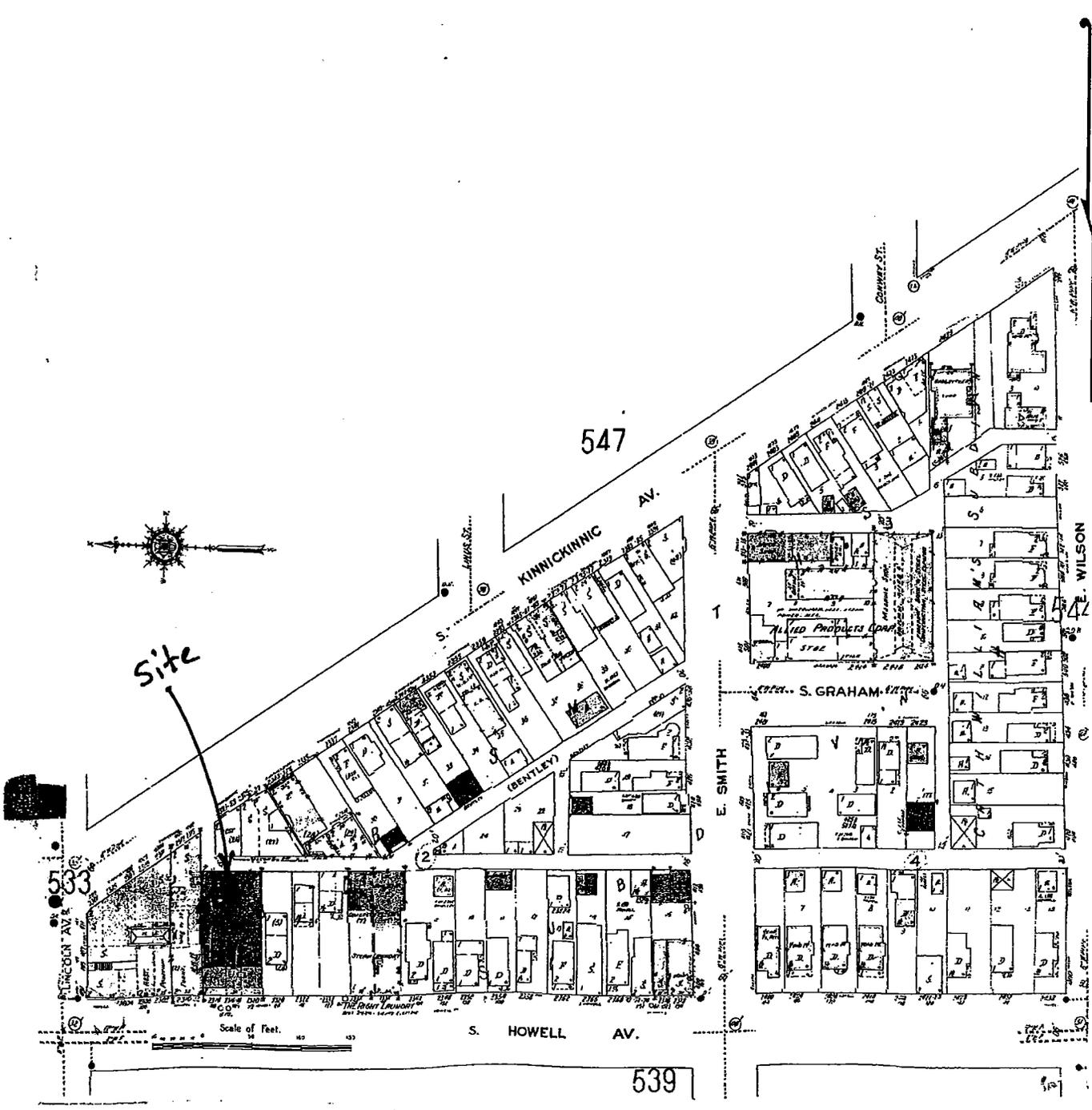
543

RTS...015

Site Name: 2314 South Howell Avenue  
 Address: 2314 South Howell Avenue  
 City, ST, ZIP: Milwaukee WI 53207  
 Client: Sigma Env. Services, Inc.  
 EDR Inquiry: 2/21/2008  
 Order Date: 8/13/2008 2:28:54 PM  
 Certification #: CE13-4366-BA7D  
 Copyright: 1951



The certified Sanborn Library search results in this report can be authenticated by visiting [www.edr.com](http://www.edr.com) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to create and reproduce maps by The Sanborn Library LLC, the copyright holder for the collection.



Certification # CE13-4366-BA7D

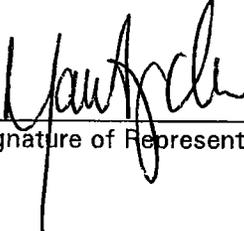
539



**GIS Registry Packet**  
**Commercial Property**  
**2314-2320 South Howell Avenue, Milwaukee, Wisconsin**

**STATEMENT BY OWNER REPRESENTATIVE**

Maritime Savings Bank, the current owner of 2314-2320 South Howell Avenue property located in Milwaukee, Wisconsin, states that the legal description for the property to be listed on the GIS Registry and provided to the Wisconsin Department of Natural Resources (WDNR) in this GIS Registry packet for WDNR BRRTS #03-41-552923 are complete and accurate to the best of our knowledge.

  
MATTHEW J. OLSON  
Signature of Representative for Owner *Pres. & CEO*

8/12/09  
Date

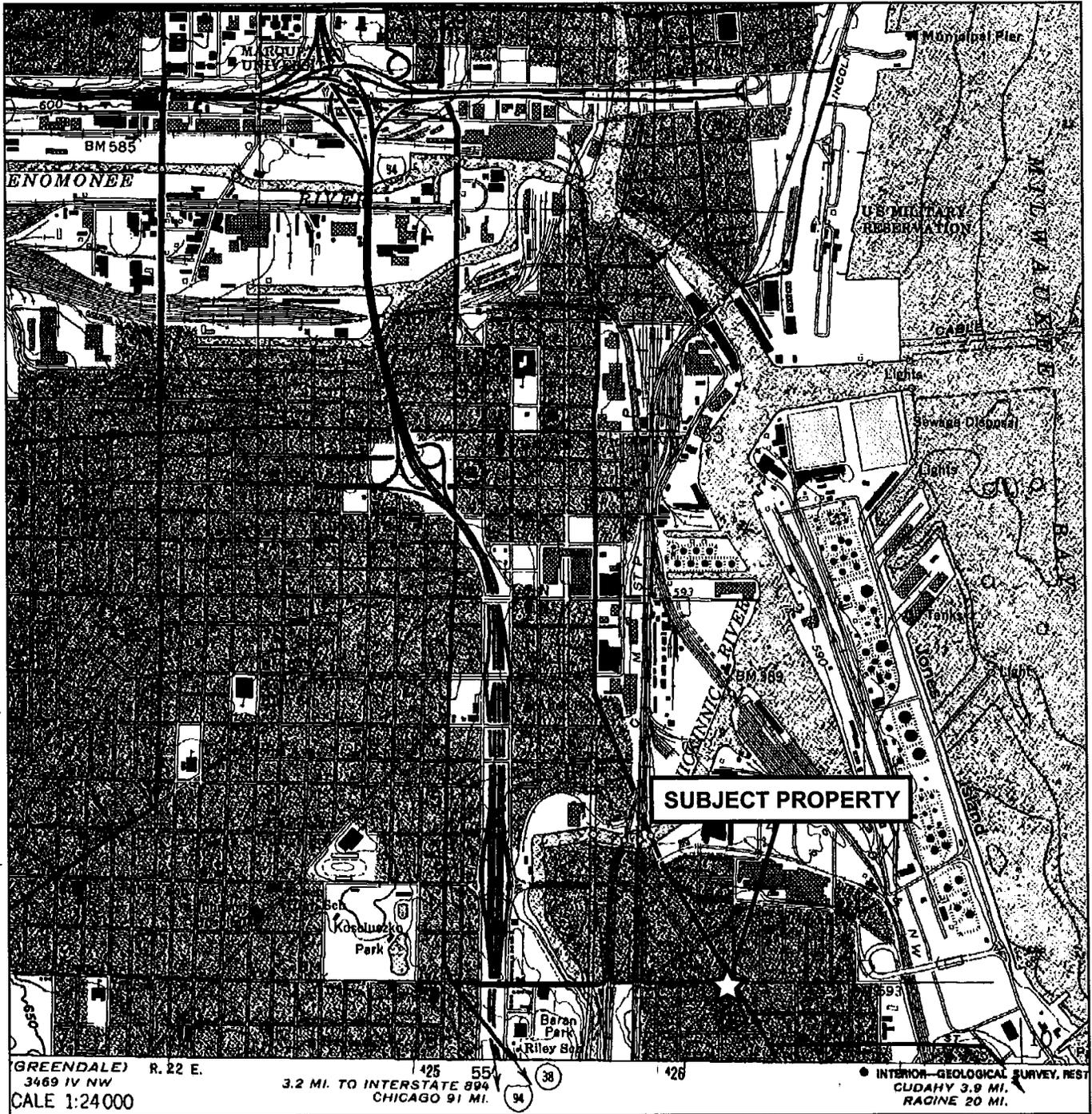
Date: 08/20/2008

Created By: ERO

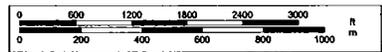
Filename: Figure 1 - Site Location Map.apl

Directory: GRAPHICS

Project: 11225



Scale 1 : 24,000  
1 inch = 2,000 feet



Located in the NW 1/4 of Section 9, T6N, R22E  
USGS Milwaukee Quadrangle (1971, photorevised from 1958)  
7.5 minute, 1 : 24,000 Topographic Map Collection



**SITE LOCATION MAP**

2314-2320 SOUTH HOWELL AVENUE  
MILWAUKEE, WISCONSIN

**FIGURE**

**1**



Date: 08/20/2008

Created By: ERO

Filename: Figure 2 - Site Plan Map.ai

Directory: GRAPHICS

Project: 11225



**SITE PLAN MAP**

2314-2320 SOUTH HOWELL AVENUE  
MILWAUKEE, WISCONSIN

FIGURE

**1**

Date: 08-04-2009

Created By: MET

Filename: Figure 2 - Site Plan Map.ai

Directory: GRAPHICS

Project: 11342



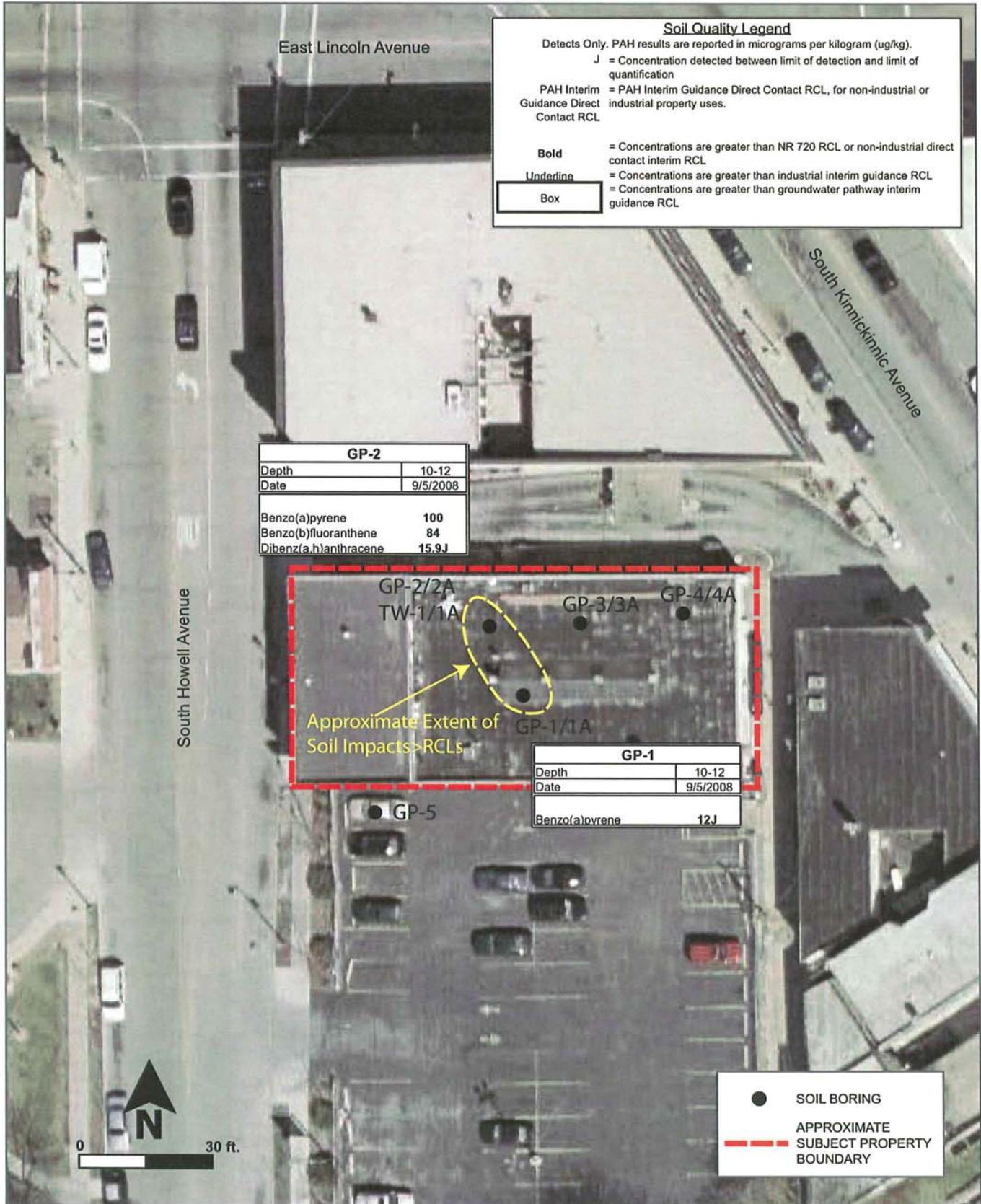
Date: 08-04-2009

Created By: MET

Filename: Figure 3 - SoilQualityMap.ai

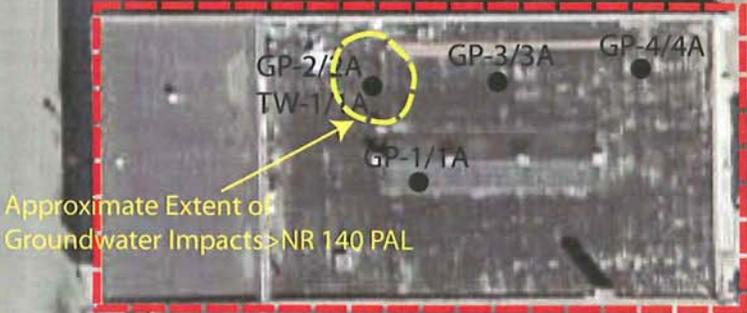
Directory: GRAPHICS

Project: 11342



**Groundwater Quality Legend**  
 All results are reported in micrograms per liter (ug/l).  
 ND = Petroleum constituent concentrations are below the laboratory detection limit  
 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard  
 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit  
**Bold** = Concentrations are greater than PAL  
**Bold/Line** = Concentrations are greater than ES

TW-1/TW-1A	
Date	9/8/2008
VOCs	ND
Date	7/2/2009
Benzo(b)fluoranthene	<b>0.146</b>
Chrysene	<b>0.128</b>



● SOIL BORING  
 - - - APPROXIMATE SUBJECT PROPERTY BOUNDARY



Project : 11342 | Directory : GRAPHICS | Filename : Figure 4 - GroundwaterQualityMap.ai | Created By : MET | Date : 06-04-2009

**TABLE 1**  
**SOIL ANALYTICAL QUALITY RESULTS**  
**VOLATILE ORGANIC COMPOUNDS**  
**Commercial Property**  
**2314-2320 South Howell Avenue**  
**Milwaukee, Wisconsin**  
**Project Reference #11342**

Soil Boring Identification:					GP-1	GP-2	GP-3	GP-4	GP-5
Sample Depth (ft):					10-12'	10-12'	10-12'	10-12'	10-12'
Parameter	Unit	NR 720	NR 746		Collection Date				
		RCL	Table 1	Table 2	09/05/08	09/05/08	09/05/08	09/05/08	09/05/08
Benzene	µg/kg	5.5	8,500	1,100	<20	<20	<20	<20	<20
Bromobenzene	µg/kg	NS	NS	NS	<34	<34	<34	<34	<34
Bromodichloromethane	µg/kg	NS	NS	NS	<16	<16	<16	<16	<16
tert-Butylbenzene	µg/kg	NS	NS	NS	<23	<23	<23	<23	<23
sec-Butylbenzene	µg/kg	NS	NS	NS	<23	<23	<23	<23	<23
n-Butylbenzene	µg/kg	NS	NS	NS	<25	<25	<25	<25	<25
Carbon tetrachloride	µg/kg	NS	NS	NS	<35	<35	<35	<35	<35
Chlorobenzene	µg/kg	NS	NS	NS	<21	<21	<21	<21	<21
Chloroethane	µg/kg	NS	NS	NS	<16	<16	<16	<16	<16
Chloroform	µg/kg	NS	NS	NS	<23	<23	<23	<23	<23
Chloromethane	µg/kg	NS	NS	NS	<50	<50	<50	<50	<50
2-Chlorotoluene	µg/kg	NS	NS	NS	<43	<43	<43	<43	<43
4-Chlorotoluene	µg/kg	NS	NS	NS	<31	<31	<31	<31	<31
1,2-Dibromo-3-chloropropane	µg/kg	NS	NS	NS	<24	<24	<24	<24	<24
Dibromochloromethane	µg/kg	NS	NS	NS	<37	<37	<37	<37	<37
1,4-Dichlorobenzene	µg/kg	NS	NS	NS	<21	<21	<21	<21	<21
1,3-Dichlorobenzene	µg/kg	NS	NS	NS	<42	<42	<42	<42	<42
1,2-Dichlorobenzene	µg/kg	NS	NS	NS	<41	<41	<41	<41	<41
Dichlorodifluoromethane	µg/kg	NS	NS	NS	<32	<32	<32	<32	<32
1,1-Dichloroethane	µg/kg	NS	NS	NS	<33	<33	<33	<33	<33
1,2-Dichloroethane	µg/kg	4.9	600	540	<24	<24	<24	<24	<24
1,1-Dichloroethane	µg/kg	NS	NS	NS	<22	<22	<22	<22	<22
1,1-Dichloroethene	µg/kg	NS	NS	NS	<27	<27	<27	<27	<27
cis-1,2-Dichloroethene	µg/kg	NS	NS	NS	<24	<24	<24	<24	<24
trans-1,2-Dichloroethene	µg/kg	NS	NS	NS	<29	<29	<29	<29	<29
1,2-Dichloropropane	µg/kg	NS	NS	NS	<19	<19	<19	<19	<19
2,2-Dichloropropane	µg/kg	NS	NS	NS	<115	<115	<115	<115	<115
1,3-Dichloropropane	µg/kg	NS	NS	NS	<21	<21	<21	<21	<21
Di-isopropyl ether	µg/kg	NS	NS	NS	<15	<15	<15	<15	<15
EDB (1,2-Dibromoethane)	µg/kg	NS	NS	NS	<21	<21	<21	<21	<21
Ethylbenzene	µg/kg	2,900	4,600	NS	<16	<16	<16	<16	<16
Hexachlorobutadiene	µg/kg	NS	NS	NS	<50	<50	<50	<50	<50
Isopropylbenzene	µg/kg	NS	NS	NS	<30	<30	<30	<30	<30
p-Isopropyltoluene	µg/kg	NS	NS	NS	<30	<30	<30	<30	<30
Methylene chloride	µg/kg	NS	NS	NS	<44	<44	<44	<44	<44
Methyl-tert-butyl-ether	µg/kg	NS	NS	NS	<23	<23	<23	<23	<23
Naphthalene	µg/kg	NS	2,700	NS	<117	<117	<117	<117	<117
n-Propylbenzene	µg/kg	NS	NS	NS	<29	<29	<29	<29	<29
1,1,2,2-Tetrachloroethane	µg/kg	NS	NS	NS	<25	<25	<25	<25	<25
1,1,1,2-Tetrachloroethane	µg/kg	NS	NS	NS	<27	<27	<27	<27	<27
Tetrachloroethene	µg/kg	NS	NS	NS	<18	<18	<18	<18	<18
Toluene	µg/kg	1,500	38,000	NS	<23	<23	<23	<23	<23
1,2,4-Trichlorobenzene	µg/kg	NS	NS	NS	<53	<53	<53	<53	<53
1,2,3-Trichlorobenzene	µg/kg	NS	NS	NS	<87	<87	<87	<87	<87
1,1,1-Trichloroethane	µg/kg	NS	NS	NS	<27	<27	<27	<27	<27
1,1,2-Trichloroethane	µg/kg	NS	NS	NS	<30	<30	<30	<30	<30
Trichloroethene	µg/kg	NS	NS	NS	<20	<20	<20	<20	<20
Trichlorofluoromethane	µg/kg	NS	NS	NS	<16	<16	<16	<16	<16
1,2,4-Trimethylbenzene	µg/kg	NS	83,000	NS	<20	<20	<20	<20	<20
1,3,5-Trimethylbenzene	µg/kg	NS	11,000	NS	<24	<24	<24	<24	<24
Vinyl chloride	µg/kg	NS	NS	NS	<17	<17	<17	<17	<17
Total Xylenes	µg/kg	4,100	42,000	NS	<48	<48	<48	<48	<48

Notes: Laboratory analyses performed by: Synergy Environmental Lab, Inc.

J = Analyte detected between Limit of Detection and Limit of Quantitation  
µg/kg = micrograms per kilogram (equivalent to parts per billion)  
NA = Not Analyzed NS = No Standard

NR 720 RCL = Wisconsin Administrative Code, Chapter NR 720 generic Residual Contaminant Level (industrial land use RCLs for RCRA)  
NR 746 Table 1 = Wisconsin Administrative Code, Chapter NR 746, Table 1 soil screening level: Indicators of Residual Petroleum Products in  
NR 746 Table 2 = Wisconsin Administrative Code, Chapter NR 746, Table 2: Protection of Human Health from Direct Contact with Contaminated

Exceedances: **BOX** = detected compound **BOX** = concentration exceeds standard

**TABLE 1**  
**SOIL ANALYTICAL QUALITY RESULTS**  
**POLYNUCLEAR AROMATIC HYDROCARBONS**  
 Commercial Property  
 2314-2320 South Howell Avenue  
 Milwaukee, Wisconsin  
 Project Reference #11342

Soil Boring Identification:					GP-1A	GP-1	GP-2A	GP-2	GP-3A	GP-3	GP-4A	GP-4	GP-5
Sample Depth (ft):					2-4'	10-12'	2-4'	10-12'	2-4'	10-12'	2-4'	10-12'	10-12'
Parameter	Units	Suggested Generic RCLs for PAH Compounds in Soil			Collection Date								
		(1) Groundwater Pathway	(2) Non-Industrial	(3) Industrial	07/01/09	09/05/08	07/01/09	09/05/08	07/01/09	09/05/08	07/01/09	09/05/08	09/05/08
Acenaphthene	µg/kg	38,000	900,000	60,000,000	<19	<13 <sup>J</sup>	<19	<13	<19	<13	<19	<13	<13
Acenphthylene	µg/kg	700	18,000	360,000	<11	<14	<11	<14	<11	<14	<11	<14	<14
Anthracene	µg/kg	3,000,000	5,000,000	3,000,000,000	<19	<8.8	<19	<b>22<sup>J</sup></b>	<19	<8.8	<19	<8.8	<8.8
Benzo(a)anthracene	µg/kg	17,000	88	3,900	<16	<b>19.1<sup>J</sup></b>	<16	<b>(2) 100</b>	<16	<10	<16	<10	<10
Benzo(a)pyrene	µg/kg	48,000	8.8	390	<25	<b>(2) 12<sup>J</sup></b>	<25	<b>(2) 84</b>	<25	<7.7	<25	<7.7	<7.7
Benzo(b)fluoranthene	µg/kg	360,000	88	3,900	<18	<b>37</b>	<18	<b>(2) 140</b>	<18	<11	<18	<11	<11
Benzo(ghi)perylene	µg/kg	6,800,000	1,800	39,000	<19	<b>16<sup>J</sup></b>	<19	<b>71</b>	<19	<12	<19	<12	<12
Benzo(k)fluoranthene	µg/kg	870,000	880	39,000	<16	<11	<16	<b>60</b>	<16	<11	<16	<11	<11
Chrysene	µg/kg	37,000	8,800	390,000	<18	<b>41</b>	<18	<b>129</b>	<18	<6.8	<18	<6.8	<6.8
Dibenz(a,h)anthracene	µg/kg	38,000	8.8	390	<22	<9.7	<22	<b>(2) 15.9<sup>J</sup></b>	<22	<9.7	<22	<9.7	<9.7
Fluoranthene	µg/kg	500,000	600,000	40,000,000	<13	<b>60</b>	<13	<b>252</b>	<13	<11	<13	<11	<11
Fluorene	µg/kg	100,000	600,000	40,000,000	<8.3	<12	<8.3	<12	<8.3	<12	<8.3	<12	<12
Indeno(1,2,3-cd)pyrene	µg/kg	680,000	88	3,900	<12	<b>15.2<sup>J</sup></b>	<12	<b>69</b>	<12	<9.9	<12	<9.9	<9.9
1-Methylnaphthalene	µg/kg	23,000	1,100,000	70,000,000	<15	<12	<15	<b>36<sup>J</sup></b>	<15	<12	<15	<12	<12
2-Methylnaphthalene	µg/kg	20,000	600,000	40,000,000	<17	<9.4	<17	<b>45</b>	<17	<9.4	<17	<9.4	<9.4
Naphthalene	µg/kg	400	20,000	110,000	<13	<12	<13	<b>22.1<sup>J</sup></b>	<13	<12	<13	<12	<12
Phenanthrene	µg/kg	1,800	18,000	390,000	<14	<b>30.7</b>	<14	<b>165</b>	<14	<9.4	<14	<9.4	<9.4
Pyrene	µg/kg	8,700,000	500,000	30,000,000	<15	<b>42</b>	<15	<b>209</b>	<15	<9.9	<15	<9.9	<9.9

Notes:

- J = analyte detected between Limit of Detection and Limit of Quantitation
- µg/kg = micrograms per kilogram (equivalent to parts per billion)
- NA = Not Analyzed
- NS = No Standard

Suggested Generic Interim = More stringent generic Residual Contaminant Level for protection of groundwater (gw) or direct contact (dc) pathway for non-industrial land use from WDNR Publication RR-519-97"Soil RCL Cleanup Levels for Polycyclic Aromatic Hydrocarbons (PAHs) Interim Guidance" (April 1997)

- Exceedances: **BOLD** = detected compound
- (1) = concentration exceeds suggested Generic RCLs for PAH Compounds in Soil (Groundwater Pathway)
  - (2) = concentration exceeds suggested Generic RCLs for PAH Compounds in Soil (Non-Industrial)
  - (3) = concentration exceeds suggested Generic RCLs for PAH Compounds in Soil (Industrial)



