

GIS REGISTRY
Cover Sheet

March, 2010
(RR 5367)

Source Property Information

CLOSURE DATE: Jul 19, 2010

BRRTS #: 02-41-555541
ACTIVITY NAME: Hi-Hat/Garage Property
PROPERTY ADDRESS: 1701-1713 N. Arlington Place
MUNICIPALITY: Milwaukee
PARCEL ID #: 3551481100 and 3550839000

FID #: 341190300

DATCP #:

COMM #:

***WTM COORDINATES:**

WTM COORDINATES REPRESENT:

X: 691411 Y: 288867

** 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" form)*

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

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 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*

BRRTS #: 02-41-55541

ACTIVITY NAME: Hi-Hat/Garage

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: N/A

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 #: Title: N/A

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: N/A

Figure #: Title:

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

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

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

Table #: 1 Title: Soil Analytical 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 #: Title: N/A

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: N/A

IMPROPERLY ABANDONED MONITORING WELLS

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

Not Applicable

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

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

Figure #: Title:

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

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

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

BRRTS #: 02-41-55554

ACTIVITY NAME: Hi-Hat/Garage

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 414-263-8716
TTY 414-263-8713

July 19, 2010

Porticello Corporation
c/o Mr. Luke J. Chiarelli
1509 N. Prospect Avenue
Milwaukee, WI 53202

File Ref: BRRTS# 02-41-555541
FID# 341190300

SUBJECT: Final Case Closure with Continuing Obligations
Hi-Hat/Garage Property, 1701-1713 North Arlington Place, Milwaukee, WI

Dear Mr. Chiarelli:

On July 19, 2010, the Wisconsin DNR reviewed the above referenced case for closure. The DNR reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. Lead and polynuclear aromatic hydrocarbon compounds (PAH's) were found in shallow soil samples collected beneath paved surfaces in areas where buildings had formerly existed. The closure submittal prepared by The Sigma Group concludes that these contaminants are possibly due to the placement of contaminated fill material into the former building foundations. The potential extent of shallow soil contamination is presumed to extend to the property boundaries, based on the possible sources. The measured concentration of these contaminants in three of the four shallow soil samples collected exceed levels expected to be protective of human health when soil is ingested. To prevent direct contact exposure and ingestion of these impacted shallow soil contaminants, the consultant has recommended that existing pavement and buildings be maintained as a direct contact barrier. The closure request submittal includes information to be posted on the DNR's Registry of Closed Remediation Cases, and a barrier maintenance plan.

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

GIS Registry

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

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

This letter and information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at <http://dnr.wi.gov/org/aw/rr/gis/index.htm>.

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 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.

Cover or Barrier: Pursuant to s. 292.12(2)(a), Wis. Stats., the pavement, building foundation and/or soil cover that currently exists in the location shown on the attached map shall be maintained in compliance with **the attached maintenance plan** in order to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. If soil in the specific locations shown on the attached map and described in the maintenance plan is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans. The attached maintenance plan and inspection log are to be kept up-to-date and on-site. Please submit the inspection log to the Department only upon request.

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

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

Sincerely,



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

Attachment: Barrier Maintenance Plan

cc: Mary Trotta – The Sigma Group

BARRIER MAINTENANCE PLAN
1701 and 1713 NORTH ARLINGTON PLACE
MILWAUKEE, WISCONSIN
FID# To Be Determined
BRRTS# To Be Determined
JULY 2010

Legal Description: See attached Exhibit A for legal description of each property.

Parcel ID Number: 3551481100 and 3550839000

Introduction: This document is the Maintenance Plan for a barrier at the above referenced property in accordance with the requirements of Ch. NR 724.13(2), Wis. Admin. Code. The maintenance activities relate to the asphalt pavement occupying the area over the identified polynuclear aromatic hydrocarbons (PAHs) and lead impacts associated with the shallow fill material identified at the site.

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

- The case file in the DNR Southeast regional office,
- BRRTS on the Web (DNR's internet based data base of contaminated sites):
<http://botw.dnr.state.wi.us/botw/SetUpBasicSearchForm.do>, and
- GIS Registry PDF file for further information on the nature and extent of contamination: <http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=brrts2>.

Description of Contamination: PAH and lead concentrations in excess of the Interim Guidance (Publication RR-519-97) Direct Contact non-industrial residual contaminant level (RCL) and Chapter NR 720 non-industrial RCLs were identified within the shallow fill material consisting of sandy silt, silt, and/or clay, located on the 1713 North Arlington Property. Elevated PAH and lead concentrations in excess of the Interim guidance industrial direct contact and/or groundwater pathway RCLs and non-industrial Chapter NR 720 RCLs were identified within the fill material, consisting of sandy silt with trace amounts of slag(non-native material) located immediately west of the northern most building. Impacted fill material is generally present at the site at depths ranging from ground surface to approximately eight feet below ground surface (bgs). The approximate cap maintenance area and subsequently approximate extent PAH and lead soil impacts identified to date is shown on the attached Figure.

Description of the Barrier to be Maintained: The Barrier consists of asphalt pavement. The Barrier is located as shown on the attached Figure.

Cover Barrier Purpose: The asphalt pavement overlying the contaminated fill serves as a barrier to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. The barrier will also act as a partial infiltration barrier to minimize potential soil to groundwater contamination migration. Based on the current future use of the property, the barrier should function as intended unless disturbed.

Annual Inspection: The engineered barriers, as depicted in the attached Figure, will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause additional infiltration to or exposure to underlying soils and/or eroded soil areas. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed and where infiltration from the surface will not be effectively minimized will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Exhibit B, Cap Inspection Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be kept at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources ("WDNR") representatives upon their request.

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

In the event the barrier materials overlying the contaminated soil are removed or replaced, the replacement barrier must be equally protective. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WDNR or its successor.

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

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

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

Contact Information - JULY 2010

Site Owner and Operator/ Responsible Party: Porticello Corporation
1307 East Brady Street
Milwaukee, WI 53202
Contact: Mr. Luke J. Chiarelli (attorney)
1509 North Prospect Avenue
Milwaukee, WI 53202
Phone: (414) 224-0600

Consultant: Sigma Environmental Services, Inc.
1300 W. Canal Street
Milwaukee, WI 53233
Contact: Ms. Mary Trotta
Phone: (414) 643-4200

WDNR: Ms. Nancy Ryan
Wisconsin Department of Natural Resources
Bureau of Remediation and Redevelopment
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212
Phone: (414)263-8533

Project: 12220 | Directory: I:\tr-city\12220\fig | Filename: 12220_Fig1_CAP AREA 07-02-10.ai | Created By: MIET | Date: 07/13/2010



CAP MAINTENANCE AREA MAP

1701 AND 1713 NORTH ARLINGTON PLACE
MILWAUKEE, WISCONSIN

FIGURE

1

REEL 3891 IMAGE 988
State Bar of Wisconsin Form 3 1982
QUIT CLAIM DEED

DOCUMENT NO.

7269556

REGISTER'S OFFICE
Milwaukee County, WI
RECORDED AT
SEP 25 1996

10 50 AM

REEL 3891 IMAGE 988
REGISTER OF DEEDS

PORTOCELLO A, Limited Liability Company

quit-claims to
PORTOCELLO CORPORATION, a
Wisconsin Corporation

the following described real estate in Milwaukee County,
State of Wisconsin:

TRANSFER
\$ 537.00
FEE

THIS SPACE RESERVED FOR RECORDING DATA

NAME AND RETURN ADDRESS

Poulos, Sengstock & Budny, S.C.
10150 W. National Avenue, #390
West Allis, WI 53227

355-1481-X & 355-0839-7
(Parcel Identification Number)

Parcel 1 of Certified Survey Map No. 4205, recorded in the Office of the Register of Deeds for Milwaukee County, Wisconsin on July 8, 1982, on Reel 1455, Image 957, as Document No. 5550422, being a Redivision of Lots 6 and 7, except the West 88.0 feet thereof, in Block "G", in Partition of the Southwest 1/4 of the Northeast 1/4 of Section 21, in Township 7 North, Range 22 East, in the City of Milwaukee, Milwaukee County, Wisconsin.

Lot 5 except the West 40 feet in Block G, Partition of Plat, being a part of the Southwest 1/4 of the North East 1/4 of Section 21, Township 7 North, Range 22 East, City of Milwaukee, County of Milwaukee, State of Wisconsin.

Conveyed subject to a first mortgage lien at State Financial Bank in the approximate amount of \$47,000.00 and a second mortgage lien of James Alevizos in the amount of \$132,000.00.

This is not homestead property.
(is) (is not)

Dated this 21 day of August, 1996

Portocello, A limited liability Corporation
(SEAL) Joseph Megna (SEAL)
JOSEPH MEGNA, Manager (SEAL)

7269556 #

AUTHENTICATION

Signature(s) JOSEPH MEGNA
authenticated this 21 day of August, 1996

* THEODORE J. POULOS (01013035)
TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by §706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY

Attorney Theodore J. Poulos
POULOS, SENGSTOCK & BUDNY, S.C.
(Signatures may be authenticated or acknowledged, both are not necessary.)

RECORD 10.00
ACKNOWLEDGMENT RTX 537.00

STATE OF WISCONSIN } ss.
County. }
Personally came before me this day of
19 the above named

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

Notary Public County, Wis.
My commission is permanent. (If not, state expiration date: 19)

CERTIFIED SURVEY MAP No. 4205
Being a redivision of Lots 6 and 7, except the West 88.0 feet thereof,
in Block "G", in Partition of Southwest 1/4 of Northeast 1/4 of Section
21, Township 7 North, Range 22 East, in the City of Milwaukee, Milwaukee
County, Wisconsin.

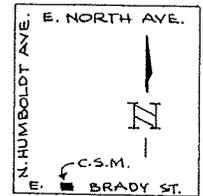
Tax Key No. 355-0840

Zoning: L, B, 85'

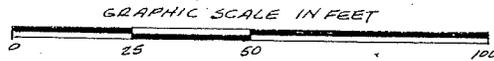
NOTES:

0 INDICATES 1" X 24" IRON PIPE 1.13 LBS. PER LIN. FOOT
ALL DIMENSIONS ARE MEASURED TO THE NEAREST 0.01 OF A FOOT.
BEARINGS ARE REFERENCED TO THE SOUTH LINE OF THE
S.W. 1/4 SEC. 21-7-22 WHICH IS ASSUMED TO BEAR
S. 89° 23' 30" W.

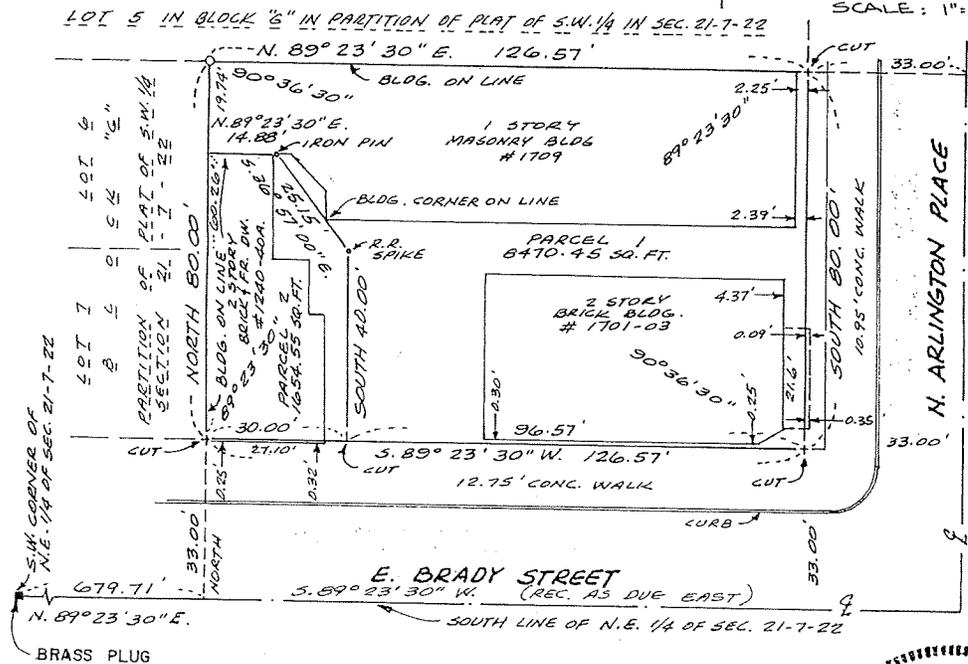
LOCATION MAP



N.E. 1/4 SEC. 21-7-22
SCALE: 1"=2000'



SCALE: 1"=30'



RECEIVED
JUN 1 1982
DEPT. OF
CITY DEVELOPMENT

DEPT. OF CITY
DEVELOPMENT
OF MILWAUKEE
JUN 1 1982
STAFF
APPROVED
[Signature]

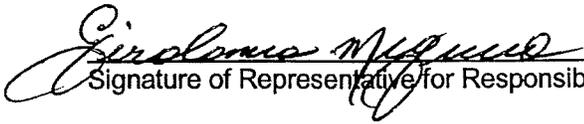
BUREAU OF ENGINEERS
[Signature] 6/14/82
CHIEF DRAFTSMAN
[Signature] 6/14/82
ENGR. IN CHARGE SEWER ENGR. DIV.
CORRECT
[Signature]
CITY ENGINEER
APPROVED

CITY FEE DEPOSITED
#2200 6/14/82

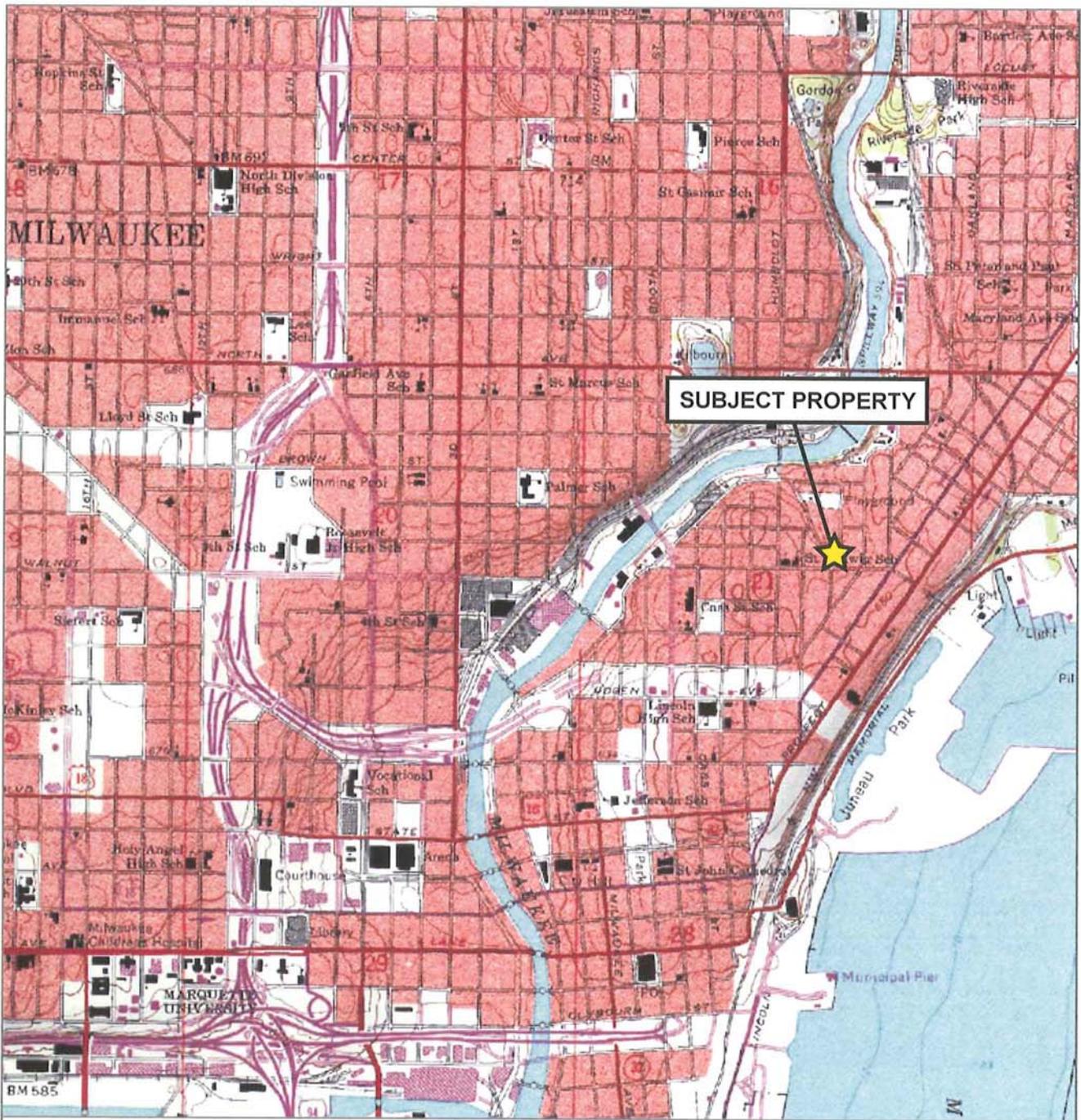
GIS Registry Packet
Porticello Corporation – Hi-Hat/Garage Property
1701 and 1713 North Arlington Place, Milwaukee, Wisconsin

STATEMENT BY RESPONSIBLE PARTY

Ms. Girolama Megna, a representative of the Porticello Corporation, the responsible party for the properties located at 1701 and 1713 North Arlington Place, Milwaukee, Wisconsin, states that the legal descriptions for the properties to be listed in the GIS Registry provided to the Wisconsin Department of Natural Resources in this case closure request/GIS Registry packet are complete and accurate to the best of our knowledge.


Signature of Representative for Responsible Party

7/7/10
Date



SUBJECT PROPERTY



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



Located in the SW 1/4 of the NE 1/4 of Section 16, T7N, R22E
USGS Milwaukee Quadrangle (1976, photorevised from 1958)
7.5 minute, 1 : 24,000 Topographic Map Collection

Project : 12220 | Directory : l:\hr-city\12220\fig | Filename : Fig_1_SLM.ai | Created By : MET | Date : XX/XX/XXXX

Date: 06/10/2010

Created By: MET

Filename: 12220_Fig2_BLM.ai

Directory: I:\trchby\12220\fig

Project: 12220



SITE PLAN MAP

1701 AND 1713 NORTH ARLINGTON PLACE
MILWAUKEE, WISCONSIN

FIGURE

2



APPROXIMATE EXTENT OF SOIL IMPACTS >RCLS

GP-4	
Depth	1-2
Benzo(a)anthracene	350
Benzo(a)pyrene	310
Benzo(b)fluoranthene	420
Dibenz(a,h)anthracene	45
Indeno(1,2,3-c)pyrene	174

GP-3	
Depth	4-6
Benzo(a)anthracene	210
Benzo(a)pyrene	146
Benzo(b)fluoranthene	241
Dibenz(a,h)anthracene	24.1
Lead	130

GP-2		
Depth	2-4	10-12
Acenphthene	700	<5.1
Benzo(a)anthracene	6,000	16.4 J
Benzo(a)pyrene	5,300	6.4 J
Benzo(b)fluoranthene	6,000	8.6 J
Benzo(ghi)perylene	3,400	<7.7
Benzo(k)fluoranthene	1,980	<9.8
Dibenz(a,h)anthracene	620	<5.5
Indeno(1,2,3-c)pyrene	2,840	<7.8
Phenanthrene	4,000	<10.6
Lead	440	18

HISTORIC GAS TANK GP-1 (<RCL)

1713 N. ARLINGTON

N. ARLINGTON PLACE

E. BRADY STREET

Soil Quality Legend

PAH results reported in ug/kg. Lead reported in mg/kg.
 J = Concentration between limit of detection and limit of quantification
 Interim = Generic contaminant level for protection of groundwater (gw) or direct Guidance RCL contact (dc) pathway for non-industrial/industrial land use from WDNR Publication RR-519-97
 NR 720 RCL = Chapter NR 720 Generic/Residual Contaminant Level for non-industrial/industrial land use.
Bold = Concentrations are greater than non-industrial Interim RCL/720 RCL
Box = Concentrations are greater than non-industrial Interim RCL/720 RCL
Box = Concentrations are greater than Interim RCL/720 RCL

- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- HISTORIC FEATURES (AS DEPICTED ON SANBORN)
- SOIL BORING LOCATION

Single Source. Sound Solutions.

SOIL QUALITY MAP

1701 AND 1713 NORTH ARLINGTON PLACE
MILWAUKEE, WISCONSIN

FIGURE

3

Drawn: 12/28/2018
 Project: 1701 AND 1713 N. ARLINGTON PLACE
 Date: 01/15/2019
 Project: 1701 AND 1713 N. ARLINGTON PLACE

TABLE 1
SOIL ANALYTICAL QUALITY RESULTS
VOLATILE ORGANIC COMPOUNDS
Hi-Hat Garage
1701-1713 North Arlington Place
Milwaukee, Wisconsin
Project Reference #12220

Soil Boring Identification:					GP-1	GP-2	GP-2	GP-3	GP-4			
Sample Depth (ft):					10-12	2-4	10-12	4-6	1-2			
PID / FID					0	0	0	0	4			
Parameter	Unit	NR 720			NR 746			Collection Date				
		RCL	Table 1	Table 2	06/09/10	06/09/10	06/09/10	06/09/10	06/09/10	06/09/10		
Benzene	µg/kg	5.5	8,500	1,100	<35	<35	<35	<35	<35	<35		
Bromobenzene	µg/kg	NS	NS	NS	<55	<55	<55	<55	<55	<55		
Bromodichloromethane	µg/kg	NS	NS	NS	<31	<31	<31	<31	<31	<31		
n-Butylbenzene	µg/kg	NS	NS	NS	<46	<46	<46	<46	<46	<46		
sec-Butylbenzene	µg/kg	NS	NS	NS	<35	<35	<35	<35	<35	<35		
tert-Butylbenzene	µg/kg	NS	NS	NS	<41	<41	<41	<41	<41	<41		
Carbon tetrachloride	µg/kg	NS	NS	NS	<28	<28	<28	<28	<28	<28		
Chlorobenzene	µg/kg	NS	NS	NS	<40	<40	<40	<40	<40	<40		
Chloroethane	µg/kg	NS	NS	NS	<80	<80	<80	<80	<80	<80		
Chloroform	µg/kg	NS	NS	NS	<39	<39	<39	<39	<39	<39		
Chloromethane	µg/kg	NS	NS	NS	<43	<43	<43	<43	<43	<43		
2-Chlorotoluene	µg/kg	NS	NS	NS	<46	<46	<46	<46	<46	<46		
4-Chlorotoluene	µg/kg	NS	NS	NS	<36	<36	<36	<36	<36	<36		
Dibromochloromethane	µg/kg	NS	NS	NS	<42	<42	<42	<42	<42	<42		
1,2-Dibromo-3-chloropropane	µg/kg	NS	NS	NS	<67	<67	<67	<67	<67	<67		
1,2-Dibromoethane	µg/kg	NS	NS	NS	<20	<20	<20	<20	<20	<20		
1,2-Dichlorobenzene	µg/kg	NS	NS	NS	<41	<41	<41	<41	<41	<41		
1,3-Dichlorobenzene	µg/kg	NS	NS	NS	<37	<37	<37	<37	<37	<37		
1,4-Dichlorobenzene	µg/kg	NS	NS	NS	<20	<20	<20	<20	<20	<20		
Dichlorodifluoromethane	µg/kg	NS	NS	NS	<33	<33	<33	<33	<33	<33		
1,1-Dichloroethane	µg/kg	NS	NS	NS	<45	<45	<45	<45	<45	<45		
1,2-Dichloroethane	µg/kg	4.9	600	540	<45	<45	<45	<45	<45	<45		
1,1-Dichloroethene	µg/kg	NS	NS	NS	<44	<44	<44	<44	<44	<44		
cis-1,2-Dichloroethene	µg/kg	NS	NS	NS	<44	<44	<44	<44	<44	<44		
trans-1,2-Dichloroethene	µg/kg	NS	NS	NS	<43	<43	<43	<43	<43	<43		
1,2-Dichloropropane	µg/kg	NS	NS	NS	<38	<38	<38	<38	<38	<38		
1,3-Dichloropropane	µg/kg	NS	NS	NS	<33	<33	<33	<33	<33	<33		
Di-isopropyl ether	µg/kg	NS	NS	NS	<31	<31	<31	<31	<31	<31		
Ethylbenzene	µg/kg	2,900	4,600	NS	<56	<56	<56	<56	<56	<56		
Hexachlorobutadiene	µg/kg	NS	NS	NS	<79	<79	<79	<79	<79	<79		
Isopropylbenzene	µg/kg	NS	NS	NS	<39	<39	<39	<39	<39	<39		
p-Isopropyltoluene	µg/kg	NS	NS	NS	<43	<43	<43	<43	<43	<43		
Methylene chloride	µg/kg	NS	NS	NS	<52	<52	<52	<52	<52	<52		
Methyl-tert-butyl-ether	µg/kg	NS	NS	NS	<27	<27	<27	<27	<27	<27		
Naphthalene	µg/kg	NS	2,700	NS	<53	<53	<53	<53	<53	<53		
n-Propylbenzene	µg/kg	NS	NS	NS	<44	<44	<44	<44	<44	<44		
1,1,2,2-Tetrachloroethane	µg/kg	NS	NS	NS	<29	<29	<29	<29	<29	<29		
Tetrachloroethene	µg/kg	NS	NS	NS	<53	<53	<53	<53	<53	<53		
Toluene	µg/kg	1,500	38,000	NS	<51	<51	<51	<51	<51	<51		
1,2,3-Trichlorobenzene	µg/kg	NS	NS	NS	<58	<58	<58	<58	<58	<58		
1,2,4-Trichlorobenzene	µg/kg	NS	NS	NS	<48	<48	<48	<48	<48	<48		
1,1,1-Trichloroethane	µg/kg	NS	NS	NS	<28	<28	<28	<28	<28	<28		
1,1,2-Trichloroethane	µg/kg	NS	NS	NS	<36	<36	<36	<36	<36	<36		
Trichloroethene	µg/kg	NS	NS	NS	<50	<50	<50	<50	<50	<50		
Trichlorofluoromethane	µg/kg	NS	NS	NS	<35	<35	<35	<35	<35	<35		
1,2,4-Trimethylbenzene	µg/kg	NS	83,000	NS	<73	<73	<73	<73	<73	<73		
1,3,5-Trimethylbenzene	µg/kg	NS	11,000	NS	<57	<57	<57	<57	<57	<57		
Vinyl chloride	µg/kg	NS	NS	NS	<33	<33	<33	<33	<33	<33		
Total Xylenes	µg/kg	4,100	42,000	NS	<124	<124	<124	<124	<124	<124		

Notes: Laboratory analyses performed by: Synergy
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 metals).
NR 746 Table 1 = Wisconsin Administrative Code, Chapter NR 746, Table 1 soil screening level: Indicators of Residual Petroleum Products in Soil Pores.
NR 746 Table 2 = Wisconsin Administrative Code, Chapter NR 746, Table 2: Protection of Human Health from Direct Contact with Contaminated Soil.
Interim RCL = 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 Cleanup Levels for Polycyclic Aromatic Hydrocarbons (PAHs) Interim Guidance" (April 1997)

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

TABLE 1
SOIL ANALYTICAL QUALITY RESULTS
POLYNUCLEAR AROMATIC HYDROCARBONS, LEAD, AND CHROMIUM
Hi Hat/Garage
1701-1713 North Arlington Place
Milwaukee, Wisconsin
Project Reference # 12220

Soil Boring Identification:					GP-1	GP-2	GP-2	GP-3	GP-4
Sample Depth (ft):					10-12	2-4	10-12	4-6	1-2
Parameter	Units	Suggested Generic RCLs for PAH Compounds in Soil			Collection Date				
		Groundwater Pathway	Non-Industrial	Industrial	06/09/10	06/09/10	06/09/10	06/09/10	06/09/10
Polynuclear Aromatic Hydrocarbons									
Acenaphthene	µg/kg	38,000	900,000	60,000,000	<15.2	289	<15.2	28.7 J	36 J
Acenaphthylene	µg/kg	700	18,000	360,000	<5.1	700	<5.1	7.0 J	10.7 J
Anthracene	µg/kg	3,000,000	5,000,000	300,000	<6.4	1250	<6.4	87	133
Benzo(a)anthracene	µg/kg	17,000	88	3,900	<12.9	6000	16.4 J	210	350
Benzo(a)pyrene	µg/kg	48,000	8.8	390	<4.7	5300	6.4 J	146	310
Benzo(b)fluoranthene	µg/kg	360,000	88	3,900	<6.5	6000	8.6 J	241	420
Benzo(ghi)perylene	µg/kg	6,800,000	1,800	39,000	<7.7	3400	<7.7	102	229
Benzo(k)fluoranthene	µg/kg	870,000	880	39,000	<9.8	1980	<9.8	84	173
Chrysene	µg/kg	37,000	8,800	390,000	<8.9	4900	<8.9	202	308
Dibenz(a,h)anthracene	µg/kg	38,000	8.8	390	<5.5	690	<5.5	24.1	45
Fluoranthene	µg/kg	500,000	600,000	40,000,000	<9.2	9800	12.8 J	530	720
Fluorene	µg/kg	100,000	600,000	40,000,000	<5.6	330	<5.6	24.8	42
Indeno(1,2,3-cd)pyrene	µg/kg	680,000	88	3,900	<7.8	2840	<7.8	79	174
1-Methylnaphthalene	µg/kg	23,000	1,100,000	70,000,000	<15	140 J	<15	<15	<15
2-Methylnaphthalene	µg/kg	20,000	600,000	40,000,000	<9.7	168	<9.7	<9.7	12.8 J
Naphthalene	µg/kg	400	20,000	110,000	<16.2	236 J	<16.2	<16.2	<16.2
Phenanthrene	µg/kg	1,800	18,000	390,000	<10.6	4000	<10.6	282	430
Pyrene	µg/kg	8,700,000	500,000	30,000,000	<7.7	9200	11.6 J	440	630
Metals									
Lead, total	mg/kg	—	50 ¹	500 ¹	5.8	440	18	130	13
Chromium, total	mg/kg	—	—	—	20	17	26	29	24

Notes: Laboratory analyses performed by:

µg/kg = micrograms per kilogram (equivalent to parts per billion)
mg/kg = milligrams per kilogram (equivalent to parts per million)
NA = Not Analyzed
NS = No Standard
J = Concentration detected between the limit of quantitation and the limit of detection
Suggested = More stringent generic Residual Contaminant Level for protection of groundwater (gw) or direct contact (dc) pathway for non-industrial land use from VWDNR Publication RR-519-97 "Soil Cleanup Levels for Polycyclic Aromatic Hydrocarbons (PAHs) Interim Guidance" (April RCL 1997)
¹ = Wisconsin Administrative Code, Chapter NR 720 Residual Contaminant Level Based on Human Health Risk from Direct Contact.

Exceedances: **BOLD** = Concentration greater than Non-Industrial Generic RCL
BOLD = Concentration greater than Industrial Generic RCL
BOX = Concentration greater than Groundwater Pathway RCL