

# GIS REGISTRY

## Cover Sheet

July, 2008  
(RR 5367)

### Source Property Information

BRRTS #: 03-16-000064

ACTIVITY NAME: CHARTER FILMS (FMR AQUILA) - PARKING LOT

PROPERTY ADDRESS: 1901 WINTER ST

MUNICIPALITY: SUPERIOR

PARCEL ID #: 06-806-00004-00

CLOSURE DATE: 01/21/2009

FID #: 816059970

DATCP #: NA

COMM #: 54880143201

#### \*WTM COORDINATES:

X: 359100 Y: 697054

*\* 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")*

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

Contamination in ROW

Off-Source Contamination

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

#### Land Use Controls:

Soil: maintain industrial zoning (220)

*(note: soil contamination concentrations  
between residential 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 or economic  
development corporation)*

Monitoring wells properly abandoned? (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 #: 03-16-000064 PARCEL ID #: 06-806-00004-00

ACTIVITY NAME: CHARTER FILMS (FMR AQUILA) - PARKING LOT WTM COORDINATES: X: 359100 Y: 697054

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

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

**SOURCE LEGAL DOCUMENTS**

- Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.  
*Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*
- Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).  
**Figure #:**                      **Title:**
- Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

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

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

- Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.  
*Note: Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.*  
**Figure #: 1**                      **Title: Site 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**
- 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: BaP Distribution (Benzo(a)pyrene)**

BRRTS #: 03-16-000064

ACTIVITY NAME: CHARTER FILMS (FMR AQUILA) - PARKING LOT

**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 #: NA 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 #: NA Title:**

- 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 #: NA 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: Phase II Soil Analytical Summary**

- 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:**

- 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 #: 03-16-000064

ACTIVITY NAME: CHARTER FILMS (FMR AQUILA) - PARKING LOT

## 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:**



ENVIRONMENTAL & REGULATORY SERVICES DIVISION  
BUREAU OF PECFA  
P.O. Box 8044  
Madison, Wisconsin 53708-8044  
TTY: Contact Through Relay  
Fax: (608) 267-1381  
**Jim Doyle, Governor**  
**Richard J. Leinenkugel, Secretary**

January 21, 2009

Troy Johnson  
Reuben Johnson & Son Inc  
5300 Stinson Ave  
PO Box 3068  
Superior, WI 54880

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

**Commerce # 54880-1432-01-A DNR BRRTS # 03-16-000064**  
Charter Films (Former Aquila Inc) – Parking Lot, 1901 Winter St, Superior

Dear Mr. Johnson:

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

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

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

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

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

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

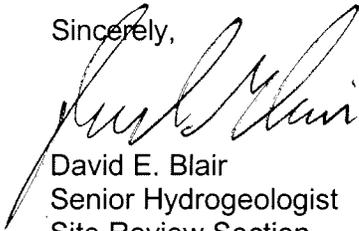
All current and future owners and occupants of the property need to be aware that excavation of contaminated soil may pose a hazard. Special precautions may be needed to prevent inhalation, ingestion or dermal contact with the residual contamination when it is removed. If soil is excavated, the

property owner at the time of excavation must 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 must determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable State regulations and standards.

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

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (608) 261-2515.

Sincerely,

A handwritten signature in black ink, appearing to read "David Blair", written over the typed name.

David E. Blair  
Senior Hydrogeologist  
Site Review Section

cc: David Lemke, RJS Construction Corp  
Tom Muhich, Environmental Troubleshooters

**MAINTENANCE PLAN  
PARKING LOT SITE  
Charter Films  
1901 Winter Street  
Superior, WI**

**Prepared For:**

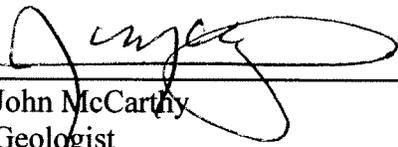
Reuben Johnson & Son, Inc.  
5300 Stinson Avenue  
Superior, WI 54880

**Prepared By:**

Environmental Troubleshooters, Inc.  
3825 Grand Avenue  
Duluth, MN 55807

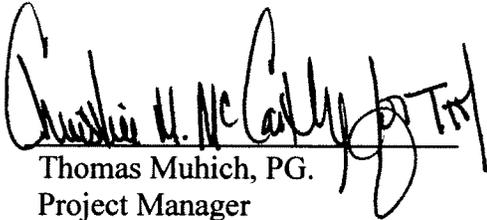
ET# 06-0914

**January 15, 2009**



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John McCarthy  
Geologist



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Thomas Muhich, PG.  
Project Manager

## **TABLE OF CONTENTS**

- 1.0 INTRODUCTION and DEFINITION OF GENERAL RESPONSIBILITIES
  - 1.1 Introduction
  - 1.2 Purpose and Intent
  - 1.3 Description of the Site
  - 1.4 Key Personnel and Their Responsibilities
  
- 2.0 INSPECTION & MAINTENANCE
  - 2.1 Inspection Procedures & Frequency
  - 2.2 Maintenance Procedures & Frequency
  - 2.3 Reporting

## **FIGURES**

- Figure 1 Site Location Map
- Figure 2 Site Plan
- Figure 3 Benzo(a)pyrene Distribution Map

## **ATTACHMENTS**

- Attachment 1 Inspection & Maintenance Checklist

## 1.0 INTRODUCTION AND DEFINITION OF GENERAL RESPONSIBILITIES

### 1.1 Introduction

This maintenance plan has been prepared for the Parking Lot site located at Charter Films at 1901 Winter Street in Superior, Wisconsin. The maintenance of the asphalt cap at the Parking Lot site is required to satisfy the performance standard outlined in NR 720.19(2) and obtain closure of the petroleum release site file. This plan should be periodically reviewed and modified to reflect changes in site use conditions.

### 1.2 Purpose and Intent

The purpose of the maintenance plan is to provide Reuben Johnson & Son (RJS) with the basic guidelines to:

- Perform routine inspections
- Properly document the inspections
- Properly document maintenance related costs
- Plan for future development of the site

### 1.3 Description of the Site

The Charter Films Parking Lot is located in the SE 1/4 of Section 15, T49N, R14W in the City of Superior. Figure 1 depicts the site location. Figure 2 depicts the facility layout and parking lot location. Figure 3 depicts the polynuclear aromatic hydrocarbon (PAH) contamination distribution. As shown on Figure 3, PAH contamination is primarily limited to the eastern half of the parking lot. The site is surrounded by cyclone fencing, except along Winter Street. The site is solely used for employee parking. The site was paved with asphalt in approximately 2006. Surface water flow at the site is via sheetflow toward Winter Street.

### 1.4 Key Personnel and Their Responsibilities

Reuben Johnson & Son Inc. (RJS) personnel or employees of Charter Films will be responsible for both the routine and other preventative maintenance of the parking lot asphalt cap. RJS is responsible for annual inspections to confirm that the asphalt has not been compromised. The inspector should notify RJS of the need for maintenance if asphalt cover conditions have deteriorated.

## 2.0 INSPECTION & MAINTENANCE

Inspection and maintenance procedures are needed to ensure the public safety. Inspection is a requirement of maintenance. The operator can only reasonably maintain the integrity of the asphalt cover through active inspection. The following sections should be used to guide routine inspection and maintenance actions.

## 2.1 Inspection Procedures & Frequency

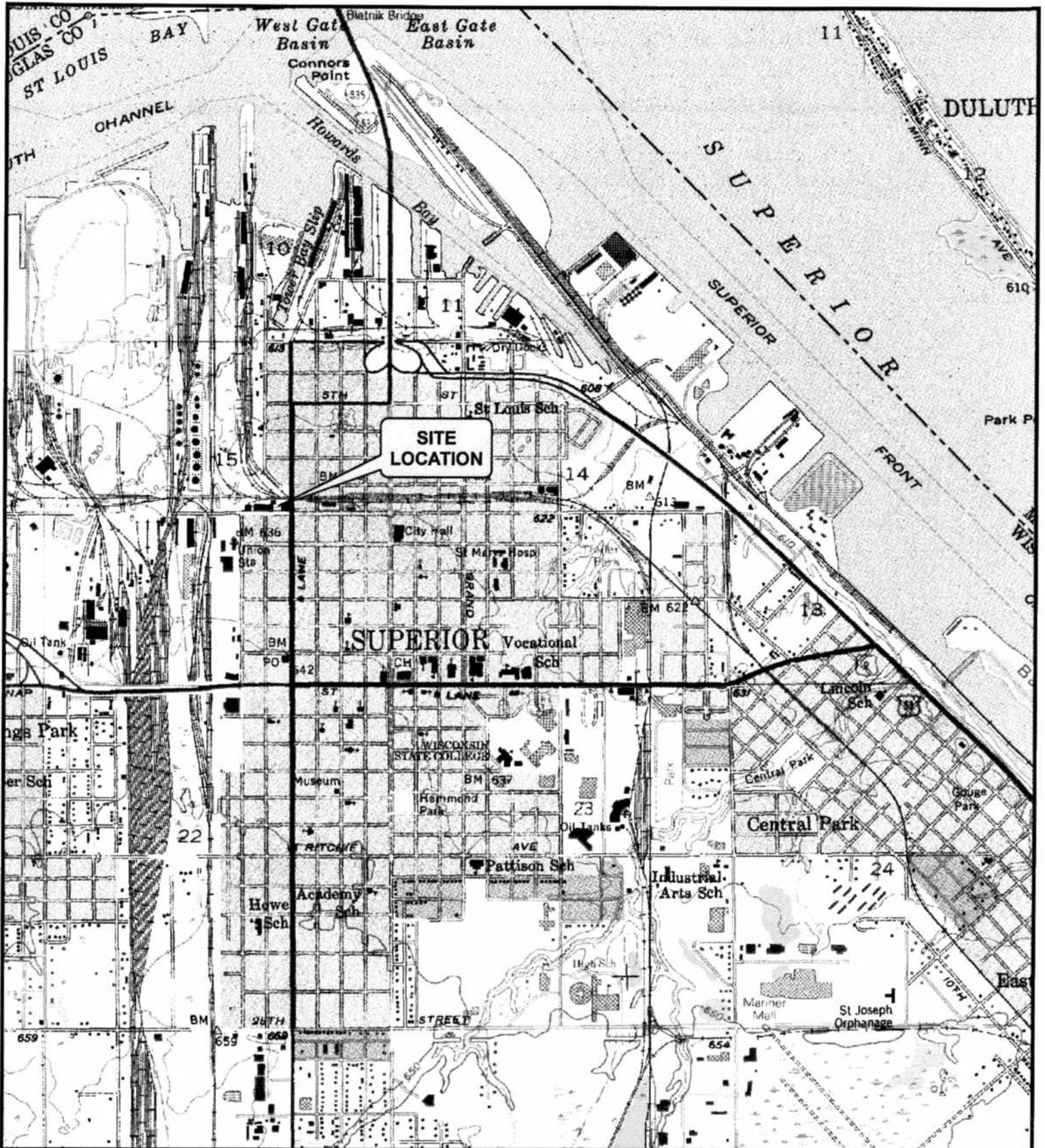
The parking lot asphalt cover will be visually observed for cracks or holes which may allow precipitation or meltwater infiltration. The inspections will be conducted each year and subsequent to any event that may physically damage the cover, beyond regular parking use. During each inspection the attached "Inspection and Maintenance Checklist" will be completed and signed by the inspector.

## 2.2 Maintenance Procedures & Frequency

The Parking Lot site is covered with asphalt. As the area was paved within approximately the last three years, site asphalt cover conditions are currently very good. Over time, the asphalt will deteriorate and the likelihood of the need for maintenance will increase. General maintenance would be expected to include crack filling and surface coating every 8 – 10 years. Depending on substrate materials and compaction, as well as asphalt thickness and grade of quality, the need for coating may be needed more or less frequently. If asphalt cracks are observed during the inspections, the cracks will be filled with all-weather, cold-climate grade asphalt crack filling compound according to directions on the product container. Within one week after crack filling, a follow-up inspection will be conducted to confirm adequate filling and adhesion.

## 2.3 Reporting

The inspection and maintenance form will be completed during each yearly event. The report will document conditions and any actions taken to repair asphalt cracks. The form will also document follow-up inspections related to maintenance activities. This plan and the completed inspection and maintenance forms will be kept on file at the Charter Films facility for regulatory review.



**FIGURE 1**  
Site Location Map

Charter Films  
1911 Winter Street  
Superior, Wisconsin 54880

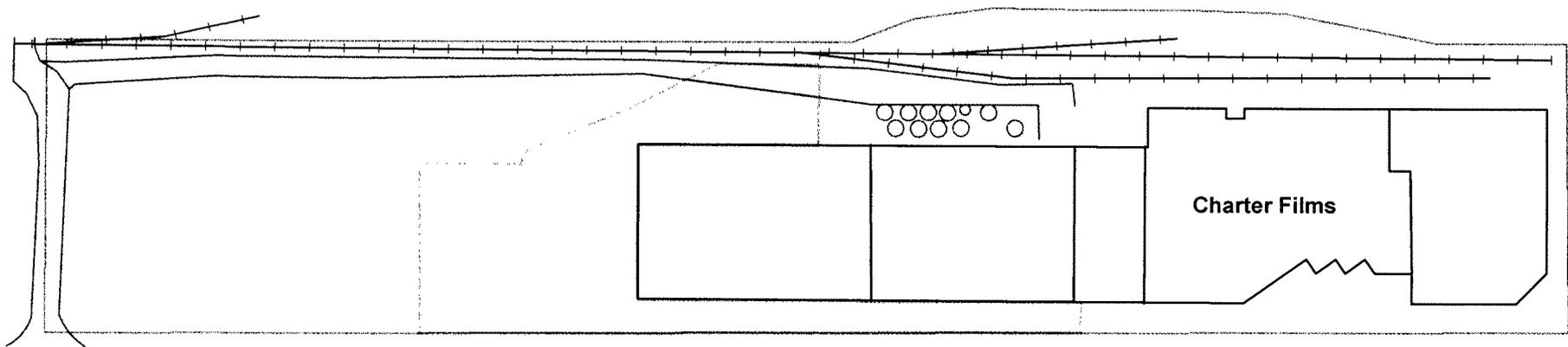
PROJECT #: 08-1002  
DATE: 10/15/2008  
FILE NAME: //GIS/2008Projects/08-1002  
CharterFilms/Figure1



SCALE: 1/24,000

Source: USGS Superior 7 1/2" Quadrangle Map





Tower Ave

Winter Street

Charter Films  
Parking Lot

Oakes Ave

Banks Ave

**Legend**

- Street Center Line
- Building
- Gravel Road
- Railroads
- Tank Farm
- Streets
- Parking Lot
- Approximate Property Boundary



SCALE: 1/1,500



**Figure 2**  
Site Plan

**Charter Films Phase II ESA**  
Superior, Wisconsin

PROJECT #: 08-1002

DATE: 11/21/2008

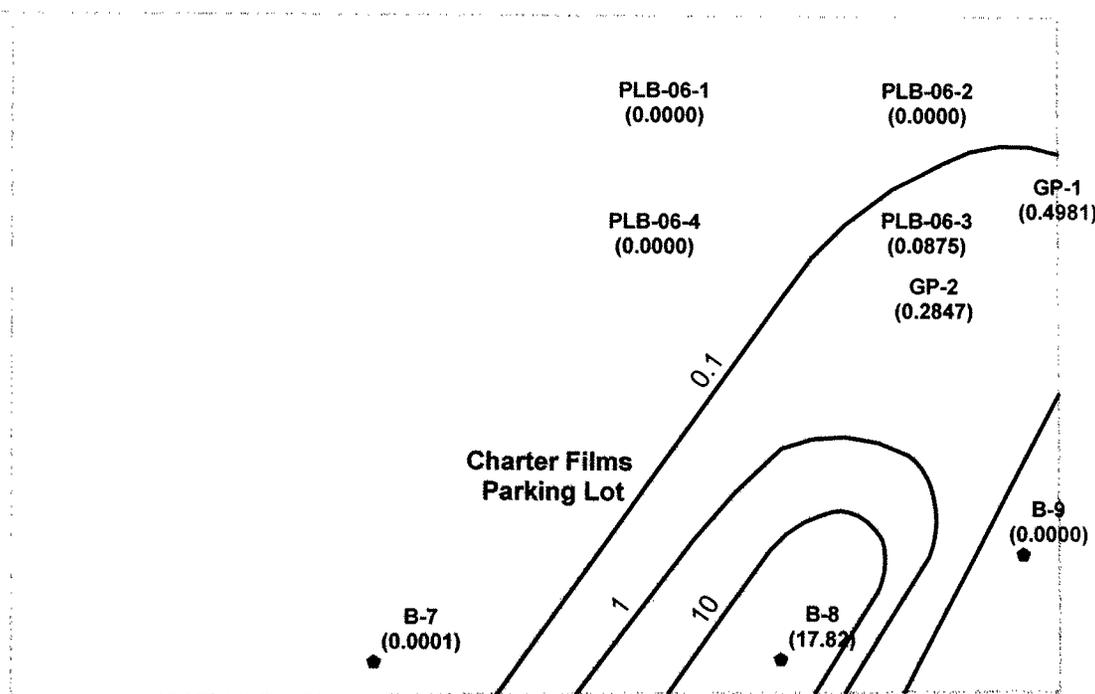
FILE NAME: //GIS/2008Projects/08-1002  
CharterFilmsPhaseIIESA/Figure2



Winter Street

Oakes Ave

Banks Ave



**Legend**

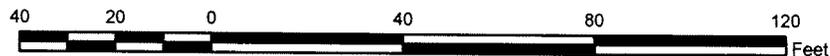
- Benzo (a) Pyrene Isopleth
- ▭ Parking Lot
- ▭ Approximate Property Boundary

( ) - Benzo (a) Pyrene equivalent Concentration (mg/kg) (Isopleths do not reflect RCLs)

**Soil Borings**

**Project**

- 2006 Charter Films Parking Lot PAH Site
- 2008 Phase II ESA



**FIGURE 3**  
B(a)p Distribution

**Charter Films Phase II ESA**  
**Superior, Wisconsin**

PROJECT #: 06-0914

DATE: 01/06/2009

FILE NAME: //GIS/2006Projects/06-0914  
CharterFilmsParkingLot/Figure3



## INSPECTION AND MAINTENANCE CHECKLIST

<b>Inspection</b>	
Inspection Date	
Inspector Name	
Inspector Signature	
Are there any cracks in the asphalt?	
If yes, schedule a date to fill cracks.	
Other comments?	
<b>Maintenance</b>	
Maintenance Date	
Name of Maintenance Personnel	
Signature of Maintenance Personnel	
Maintenance: Crack filling date	
Other comments?	
<b>Maintenance Follow-up Inspection</b>	
Re-inspection Date	
Re-inspector Name	
Re-inspector Signature	
Did filler seal and adhere well?	
If not, schedule crack filling repairs and complete another form.	

## INSPECTION AND MAINTENANCE CHECKLIST

<b>Inspection</b>	
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Inspector Name	
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Signature of Maintenance Personnel	
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Other comments?	
<b>Maintenance Follow-up Inspection</b>	
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Re-inspector Name	
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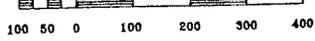
## INSPECTION AND MAINTENANCE CHECKLIST

<b>Inspection</b>	
Inspection Date	
Inspector Name	
Inspector Signature	
Are there any cracks in the asphalt?	
If yes, schedule a date to fill cracks.	
Other comments?	
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Maintenance Date	
Name of Maintenance Personnel	
Signature of Maintenance Personnel	
Maintenance: Crack filling date	
Other comments?	
<b>Maintenance Follow-up Inspection</b>	
Re-inspection Date	
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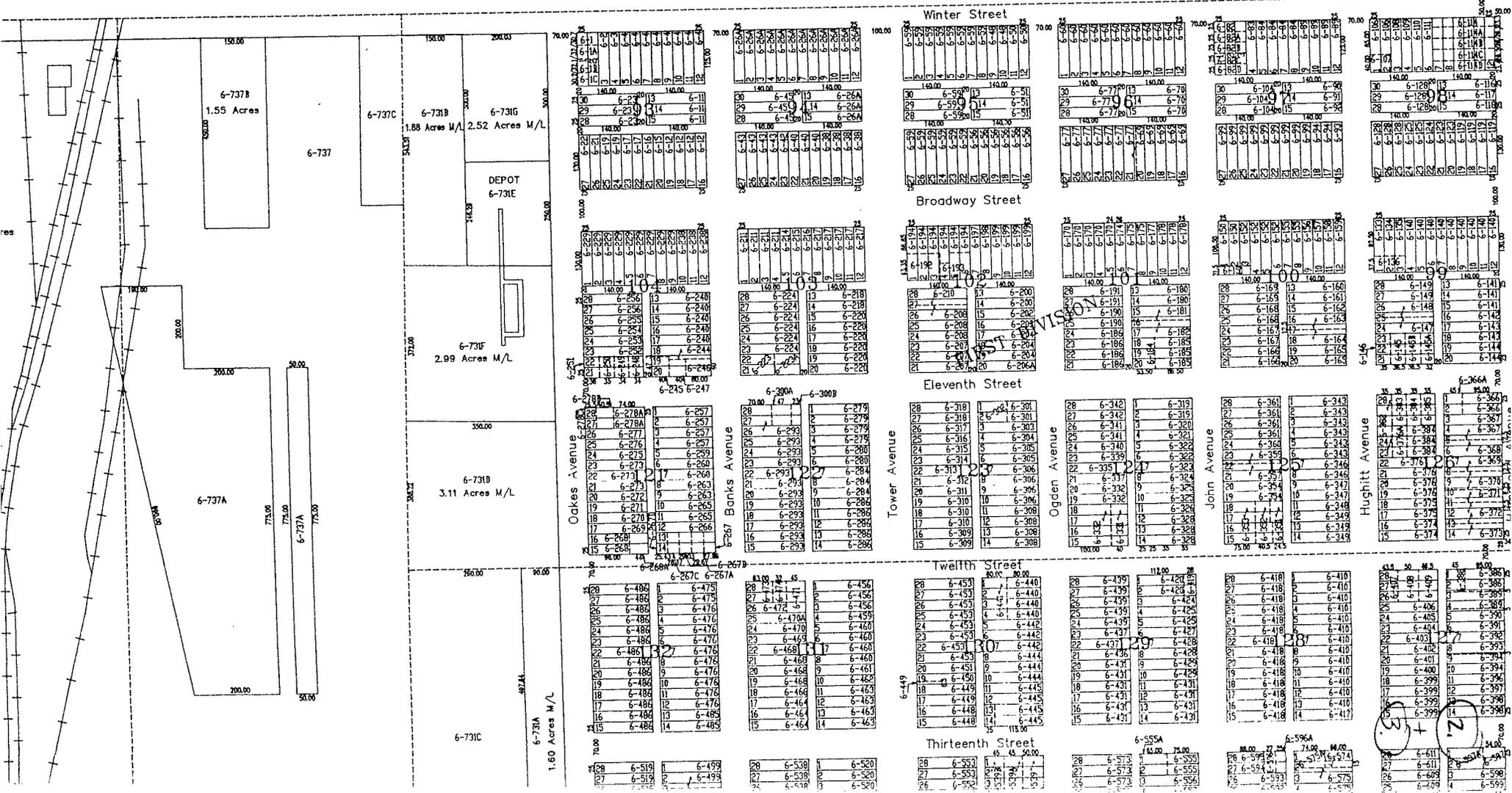
# TH 1/2 SEC. 15-49-14

SCALE, IN FEET



Prepared By:  
Douglas County Clerk's Office, P.J. De Luca  
26 March 1992

Parcel ID #: 06-806-00004-00  
Legal Desc: West Superior 1st Division  
Lots 5 through 12, Block 93





12.

# REUBEN JOHNSON & SON, INC.

P.O. Box 3068 • 5300 Stinson Avenue • Superior, Wisconsin 54880

Telephone (715) 394-7771  
FAX (715) 394-7776

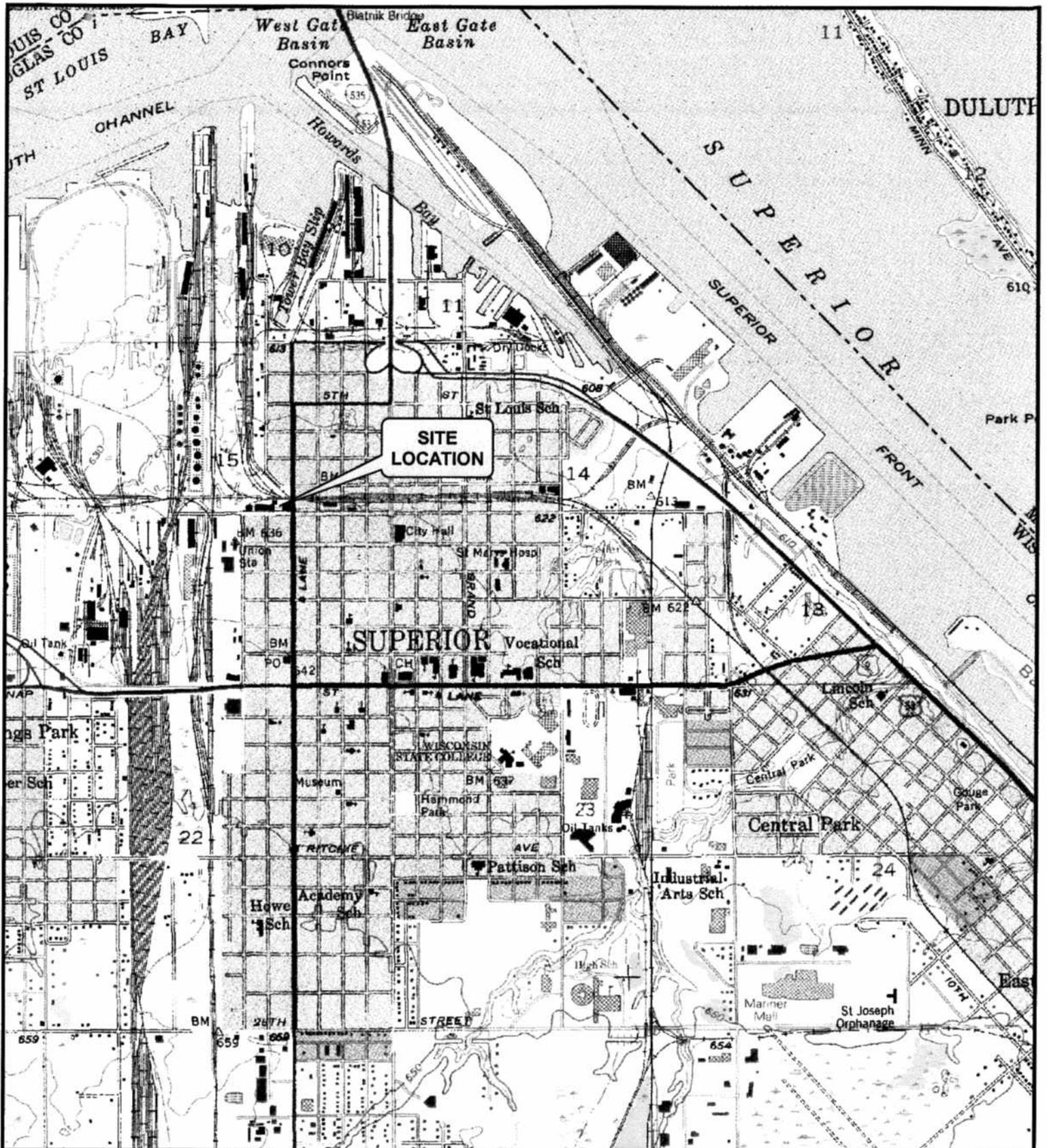
## Statement

I, David M. Lemke, believe that the legal description has been attached for each property that is within the site boundry.

David M. Lemke  
Vice President  
Reuben Johnson and Son, Inc.

*Serving the Midwest for Over Forty Years • An Equal Opportunity Employer*





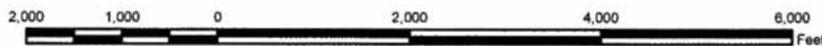
**FIGURE 1**  
Site Location Map

Charter Films  
1911 Winter Street  
Superior, Wisconsin 54880

PROJECT #: 08-1002

DATE: 10/15/2008

FILE NAME: //GIS/2008Projects/08-1002  
CharterFilms/Figure1



SCALE: 1/24,000

Source: USGS Superior 7 1/2" Quadrangle Map



**Legend**

- Street Center Line
- Building
- Gravel Road
- Railroads
- Tank Farm
- Streets
- Parking Lot
- Approximate Property Boundary



**SCALE: 1/1,500**



**Figure 2  
Site Plan**

**Charter Films Phase II ESA  
Superior, Wisconsin**

**PROJECT #: 08-1002**

**DATE: 11/21/2008**

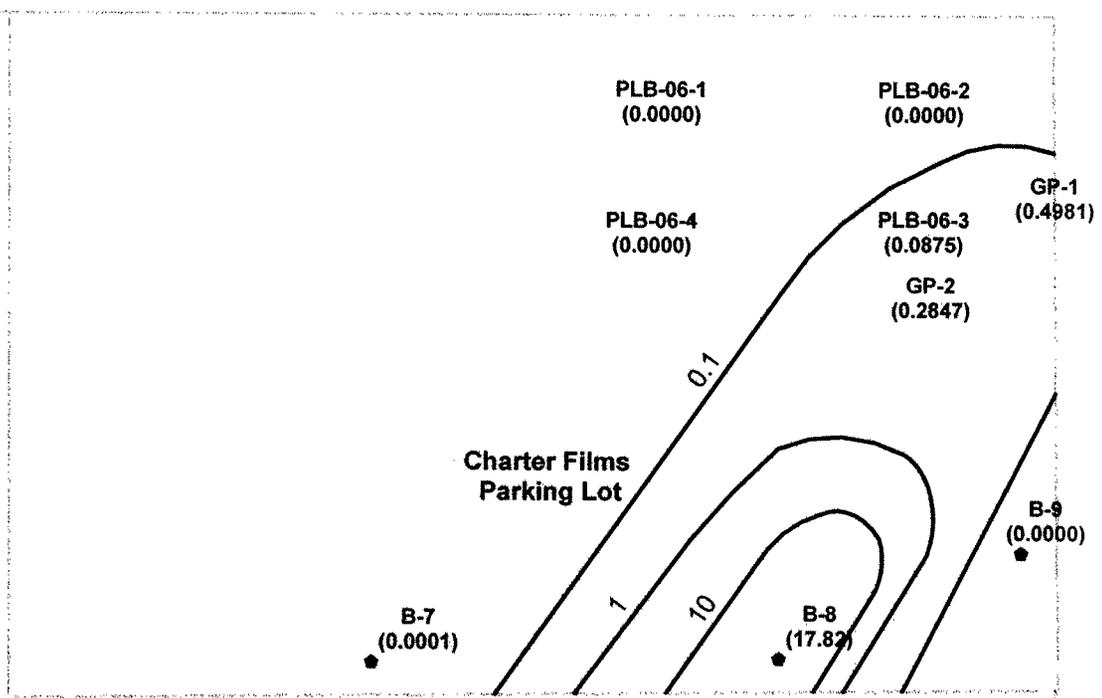
**FILE NAME: //GIS/2008Projects/08-1002  
CharterFilmsPhaseIIESA/Figure2**



Winter Street

Oakes Ave

Banks Ave



**Legend**

- Benzo (a) Pyrene Isopleth
- ▭ Parking Lot
- ▭ Approximate Property Boundary

**Soil Borings**

**Project**

- 2006 Charter Films Parking Lot PAH Site
- 2008 Phase II ESA

( ) - Benzo (a) Pyrene equivalent Concentration (mg/kg) (Isopleths do not reflect RCLs)



**FIGURE 3**

B(a)p Distribution

Charter Films Phase II ESA  
Superior, Wisconsin

PROJECT #: 06-0914

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FILE NAME: //GIS/2006Projects/06-0914  
CharterFilmsParkingLot/Figure3



**Table 1 Phase II Soil Analytical Summary**  
**Charter Films, 1901 Winter Street, Superior, WI**  
**All results in mg/kg**

	Sample ID		GP-1(c)	GP-2(c)	SB-06-1(c)	SB-06-2(c)	SB-06-3	SB-06-4(c)	B7	B8*	B9		
	Sample Depth (ft)		12-14	12-14	14-16	14-16	4-6	14-16	2-4	2-4	2-4		
	Generic RCLs***		ETS	ETS	EPC	EPC	EPC	EPC	ETS	ETS	ETS		
	GW Path	Non-Ind	Industrial	5/21/08	5/21/08	8/22/06	8/22/06	8/22/06	8/22/06	11/6/08	11/6/08	11/6/08	
<b>RCRA Metals (mg/kg)</b>													
Arsenic		0.039	1.6	--	--	--	--	--	--	<0.480	1.36	<0.454	
Barium				--	--	--	--	--	--	124	106	162	
Cadmium		8	510	--	--	--	--	--	--	0.118	0.337	0.0902	
Chromium (total) ****		16000	na	--	--	--	--	--	--	33.7	17.5	38.2	
Lead		50	500	--	--	9.7	9.6	9.1	9.5	4.68	53.8	6.33	
Mercury				--	--	--	--	--	--	<0.187	0.211	<0.183	
Selenium				--	--	--	--	--	--	1.86	<0.705	1.4	
Silver				--	--	--	--	--	--	<0.288	<0.235	<0.272	
<b>PAHs/SVOCs (mg/kg)</b>													
1-Methylnaphthalene	23	1100	70000	<0.0495	<0.0515	<0.004	<0.0041	0.0088	<0.0041	<0.0533	<43.5	<0.0504	
2-Methylnaphthalene	20	600	40000	<0.0549	<0.0570	<0.0041	<0.0043	<0.0040	<0.0042	<0.0591	<48.2	<0.0559	
Acenaphthene	38	900	60000	<0.0629	<0.0654	<0.0039	<0.0040	0.0057	<0.0040	<0.0677	195	<0.0640	
Acenaphthylene	0.7	18	360	<0.0884	<0.0918	<0.0038	<0.0039	0.0077	<0.0039	<0.0951	<77.6	<0.0899	
Anthracene	3000	5000	300000	0.076	0.103	<0.0047	<0.0048	0.03	<0.0048	<0.0461	233	<0.0436	
Benzo(a)anthracene	17	0.088	3.9	0.317	0.183	<0.007	<0.0072	0.019	<0.0072	<0.0591	<b>88.1</b>	<0.0559	
Benzo(a)pyrene	48	0.0088	0.39	0.328	0.205	<0.0038	<0.0039	0.021	<0.0039	<0.0331	<b>&lt;27.1</b>	<0.0313	
Benzo(b)fluoranthene	360	0.088	3.9	0.333	0.21	<0.0037	<0.0038	0.0068	<0.0038	<0.0303	<b>38</b>	<0.0286	
Benzo(g,h,i)perylene	6800	1.8	39	0.158	0.102	<0.0047	<0.0048	<0.0045	<0.0048	<0.0576	<b>&lt;47.1</b>	<0.0545	
Benzo(k)fluoranthene	870	0.88	39	0.179	0.117	<0.004	<0.0042	0.0062	<0.0041	<0.0418	<34.1	<0.0395	
Chrysene	37	8.8	390	<0.0361	<0.0376	<0.0036	<0.0037	<0.0035	<0.0037	<0.0331	62.4	<0.0313	
Dibenzo(a,h)anthracene	38	0.0088	0.39	0.373	0.207	<0.0058	<0.0059	0.082	<0.0059	<0.0389	<b>&lt;31.8</b>	<0.0368	
Fluoranthene	500	600	40000	0.652	0.443	<0.0038	<0.0039	0.029	<0.0039	0.0776	394	<0.0354	
Fluorene	100	600	40000	<0.0442	<0.0459	<0.0045	<0.0046	0.035	<0.0046	<0.0476	191	<0.0450	
Indeno(1,2,3-cd)pyrene	680	0.088	3.9	0.213	0.132	<0.0033	<0.0034	<0.0032	<0.0034	<0.0317	<b>&lt;25.9</b>	<0.0300	
Naphthalene	0.4	20	110	<0.0616	<0.0640	<0.0053	<0.0055	0.017	<0.0054	<0.0663	<b>410</b>	<0.0627	
Phenanthrene	1.8	18	390	0.309	0.343	<0.0039	<0.004	0.32	<0.0040	<0.0591	<b>864</b>	<0.0559	
Pyrene	8700	500	30000	0.952	0.733	<0.0032	<0.0033	0.03	<0.0033	<0.0406	763	0.0479	
BaP Equivalents				0.4981	0.2847	0.0000	0.0000	0.0875	0.0000	0.0001	<b>17.8194</b>	0.0000	
BaP / Sample RCLs				(# cmpds)(0.392)(BaP Eq)=	12	10	0	0	15	0	1	10	0
					0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392
					2.343	1.116	0.000	0.000	0.514	0.000	0.000	<b>69.852</b>	0.000
<b>Diesel Range Organics</b>													
		100								36.2 (a)	<b>34400 (a)</b>	<b>368 (a)</b>	
<b>Gasoline Range Organics</b>													
		100								--	--	--	
<b>VOCs</b>													
1,1,1,2-Tetrachloroethane				--	--	--	--	--	--	<0.020	0.438	<0.020	
1,1-Dichloroethane				--	--	--	--	--	--	<0.016	<0.160	0.0285	
1,2,3-Trichloropropane				--	--	--	--	--	--	<0.049	<0.490	0.0662	
1,2,4-Trimethylbenzene				<0.013	0.036	<0.025	<0.025	<0.025	<0.025	<0.036	1.11	<0.036	
1,3,5-Trimethylbenzene				<0.018	<0.018	<0.025	<0.025	<0.025	<0.025	<0.014	0.279	<0.014	
Butylbenzene				--	--	--	--	--	--	<0.011	<0.110	0.0431	
Ethylbenzene		2.9		<0.018	<0.018	<0.025	<0.025	<0.025	<0.025	<0.015	0.497	<0.015	
Isopropylbenzene (cumene)				--	--	--	--	--	--	<0.014	0.297	<0.014	
Methylene Chloride				--	--	--	--	--	--	<0.024	<0.240	0.0425	
Naphthalene				--	--	<0.025	<0.025	<0.025	<0.025	0.044	88.2	0.061	
Toluene		1.5		<0.017	0.071	<0.025	<0.025	<0.025	<0.025	<0.041	<0.410	<0.041	
Xylenes		4.1		0.046	0.145	<0.075	<0.075	<0.075	<0.075	<0.100	<1.000	0.0783	
<b>34.8</b>	Exceeds WDNR Industrial Direct Contact Pathway												
<b>26.0</b>	MDL Exceeds WDNR Industrial Direct Contact Pathway. Unknown if result exceeds value.												
--	Not analyzed												

- (a) Chromatogram characteristic of petroleum product heavier than Diesel
- (b) Chromatogram characteristic of lighter petroleum product
- (c) Boring soil samples collected too deep (below PAH containing fill).
- \* Note: B8 PAH analyses had 10,000x dilution and VOCs had 1,000x dilution so < values are elevated
- \*\* Note: Need to run lead on next round of samples in case it was leaded gasoline (assumed due to age)
- \*\*\* Generic RCLs: PAHs (per RR-519-97 Interim Guidance, 4/97); Metals & VOCs (per NR 720, 9/07)
- \*\*\*\* Chromium RCLs are for Trivalent (not hexavalent)