



November 7, 2017

City of Black River Falls
Attn: Brad Chown
101 South Second Street
Black River Falls, WI 54615

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
Home Oil Bulk Tanks Winnebago Ave, 213 Winnebago Ave, Black River Falls, WI
DNR BRRTS Activity #: 02-27-000428
FID#: 627002640

Dear Mr. Chown:

The Department of Natural Resources (DNR) considers Home Oil Bulk Tanks Winnebago Ave site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners and occupants must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter to anyone who purchases, rents or leases this property from you.

This final closure decision is based on the correspondence and data provided, and is issued under chs. NR 726 and 727, Wis. Adm. Code. The West Central Region (WCR) Closure Committee reviewed the request for closure on October 5, 2017. The Closure Committee reviewed this environmental remediation case for compliance with state laws and standards.

This former bulk petroleum storage facility had soil and groundwater contaminated with petroleum VOCs. Remedial action included soil excavation and groundwater monitoring. The conditions of closure and continuing obligations required were based on the property being used for residential purposes.

Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- Groundwater contamination is present at or above ch. NR 140 enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.

The DNR fact sheet "Continuing Obligations for Environmental Protection," RR-819, helps to explain a property owner's responsibility for continuing obligations on their property. The fact sheet may be obtained at <http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf>.

GIS Registry

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web) at <http://dnr.wi.gov/topic/Brownfields/rrsm.html>, to provide public notice of residual contamination and of any continuing obligations. The site can also be viewed on the Remediation and Redevelopment Sites Map (RRSM), a map view, under the Geographic Information System (GIS) Registry layer, at the same web address.

DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at <http://dnr.wi.gov/topic/wells/documents/3300254.pdf>.

All site information is also on file at the West Central Regional DNR office, at 1300 W. Clairemont Ave, Eau Claire, WI 54701. This letter and information that was submitted with your closure request application, including any maps, can be found as a PDF in BRRTS on the Web.

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter are met. If these requirements are not followed, the DNR 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.

Please send written notifications in accordance with the following requirements to:

Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program Associate
1300 W. Clairemont Ave.
Eau Claire WI 54701

Residual Groundwater Contamination (chs. NR 140 and 812, Wis. Adm. Code)

Groundwater contamination greater than enforcement standards is present on this contaminated property, as shown on the attached map, Groundwater Isoconcentration map, Attachment B.3.b, 1/17/2016. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval.

Residual Soil Contamination (ch. NR 718, or ch. 289, Stats.; chs. 500 to 536, Wis. Adm. Code)

Soil contamination remains on the site as indicated on the attached map, Residual Soil Contamination map, Attachment B.2.b, 1/17/2016. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if 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 standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

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 to prevent a direct contact health threat to humans.

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

Other Closure Information

General Wastewater Permits for Construction Related Dewatering Activities

The DNR's Water Quality Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits, or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

If you or any other person plan to conduct such activities, you or that person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at dnr.wi.gov/topic/wastewater/GeneralPermits.html. If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for Discharge of Contaminated Groundwater from Remedial Action Operations may be needed. If water collecting in a pit/trench that requires dewatering is expected to be free of pollutants other than suspended solids and oil and grease, a general permit for Pit/Trench Dewatering may be needed.

PECFA Reimbursement

Section 101.143, Wis. Stats., requires that Petroleum Environmental Cleanup Fund Award (PECFA) claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If there is equipment purchased with PECFA funds remaining at the site, contact the DNR Program to determine the method for salvaging the equipment.

Per Wisconsin Act 55 (2015 State budget), a claim for PECFA reimbursement must be submitted within 180 days of incurring costs (i.e., completing a task). If your final PECFA claim is not submitted within 180 days of incurring the costs, the costs will not be eligible for PECFA reimbursement.

In Closing

Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment,
- if the property owner does not comply with the conditions of closure, with any deed restrictions applied to the property, or with a certificate of completion issued under s. 292.15, Wis. Stats, or
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

The DNR 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 Matthew Vitale at (715) 839-3760, or at matthew.vitale@wisconsin.gov.

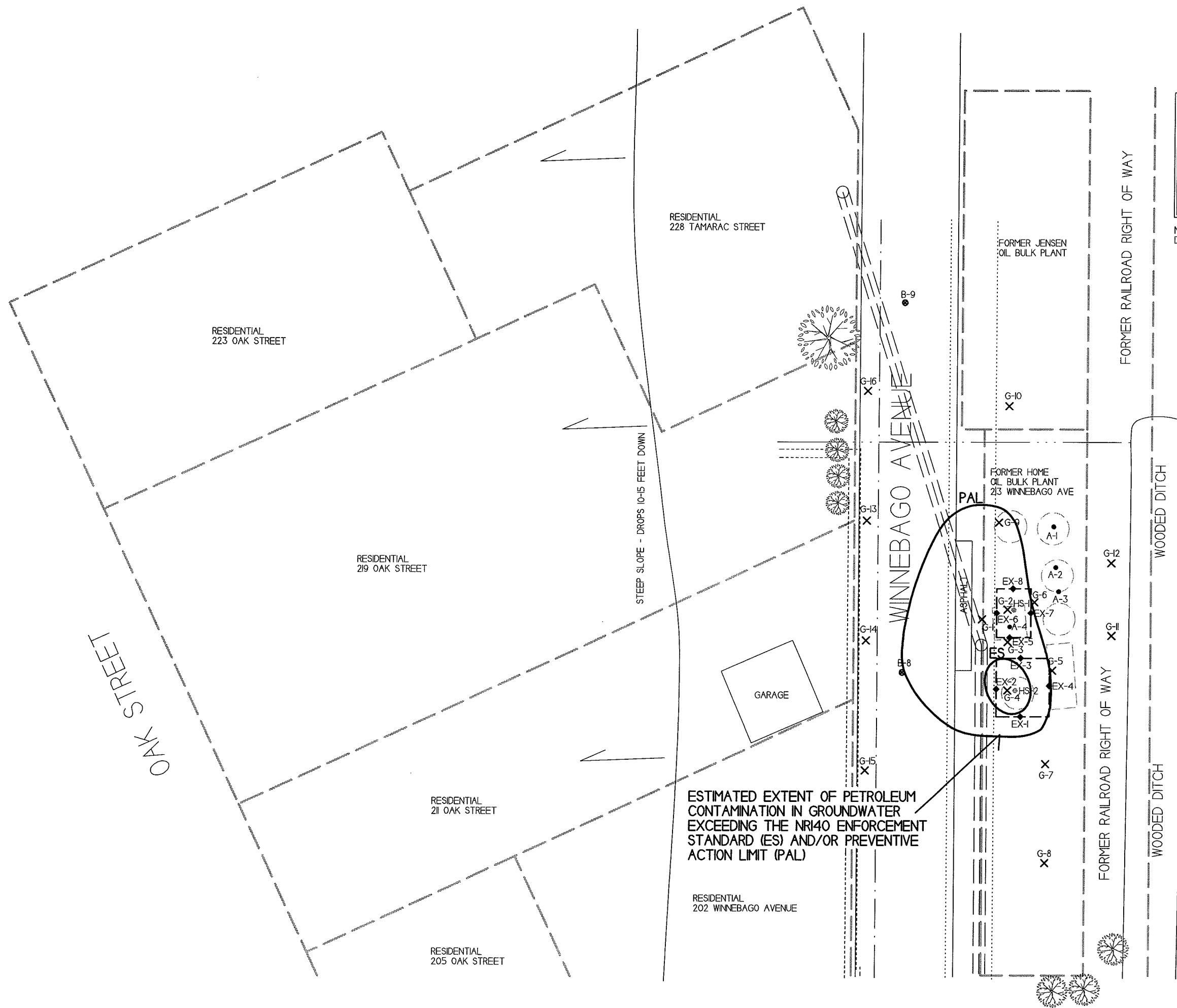
Sincerely,



Dave Rozeboom
West Central Region Team Supervisor
Remediation & Redevelopment Program

Attachments: - Groundwater Isoconcentration map, Attachment B.3.b, 1/17/2016
- Residual Soil Contamination map, Attachment B.2.b, 1/17/2016

cc: Ron Anderson, METCO – email only



B.3.b. GROUNDWATER ISOCONCENTRATION
HOME OIL BULK TANKS
WINNEBAGO AVENUE

METCO
 709 Collette St, Suite 3
 La Crosse, WI 54603
 Tel: (608) 781-8879
 Fax: (608) 781-8893

BLACK RIVER FALLS, WISCONSIN
 DRAWN BY: ED DATE: 2/1/2015
 MODIFIED BY: MM DATE: 1/7/2016

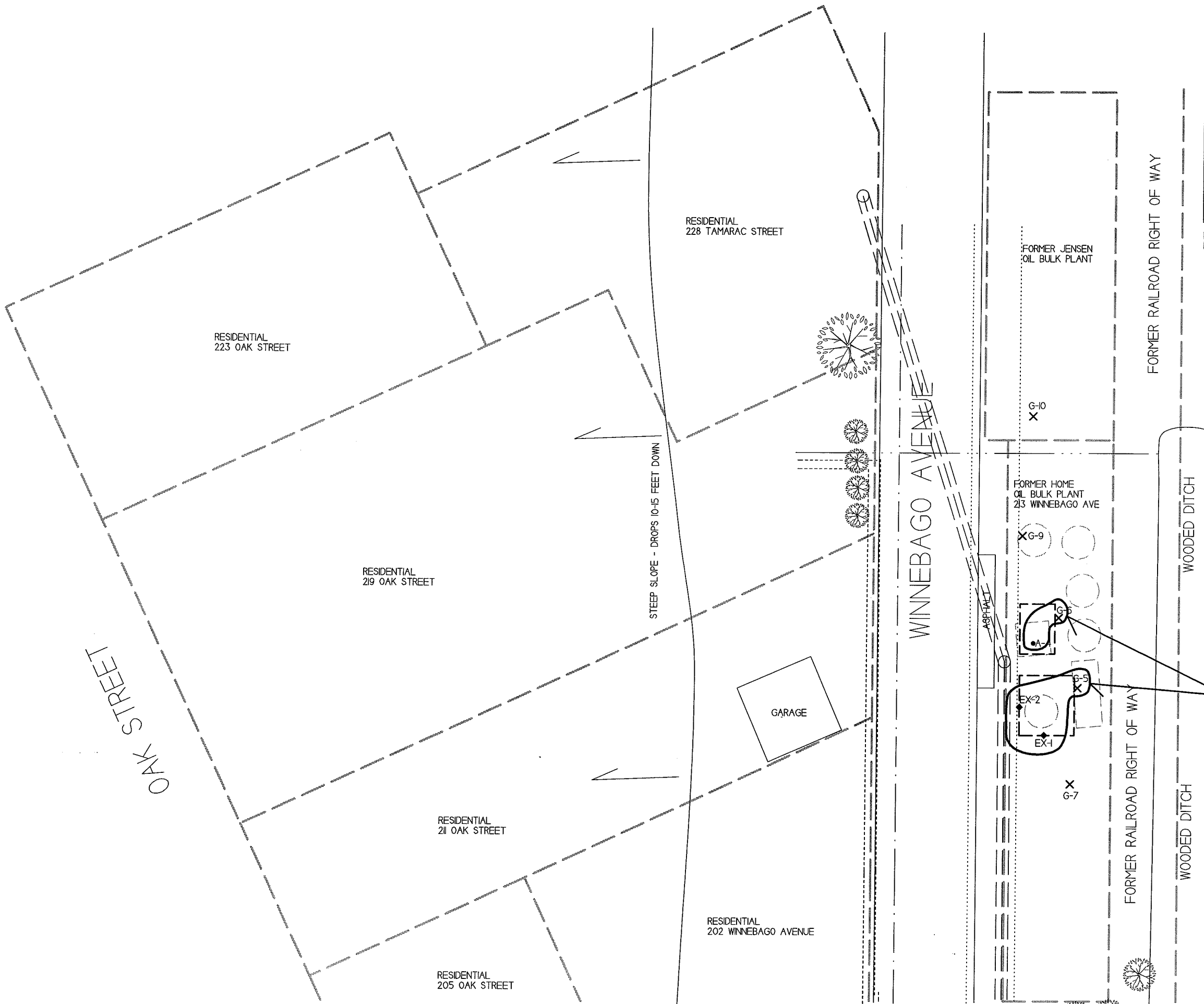
NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

SCALE: 1 INCH = 30 FEET

0 15 30

- - PHASE 2 ESA SOIL BORING LOCATION (CEDAR CORP - 1993)
 - - PHASE 2 ESA SOIL BORING LOCATION (ECCI - 2005)
 - X - GEOPROBE BORING LOCATION
 - ⊕ - HAND AUGER SOIL SAMPLE LOCATION
 - ◆ - SOIL EXCAVATION SOIL SAMPLE LOCATION
- ▭ - REMOVED HORIZONTAL PETROLEUM AST
 - - REMOVED VERTICAL PETROLEUM AST
 - ▭ - FORMER FUEL DISPENSER BUILDING
 - ▭ - SOIL EXCAVATION (TO 4 FEET BGS)
- PROPERTY LINE _____
- PHONE/FIBER OPTIC LINE - - - - -
- WATER LINE _____
- STORM SEWER LINE _____
- OVERHEAD UTILITY LINES _____

NOTE: GROUNDWATER ISOCONCENTRATION MAP IS BASED ON GROUNDWATER ANALYTICAL RESULTS FROM THE APRIL 14, 2015 GEOPROBE PROJECT.



B.2.b. RESIDUAL SOIL CONTAMINATION HOME OIL BULK TANKS WINNEBAGO AVENUE	
	BLACK RIVER FALLS, WISCONSIN <small>709 Gillette St. Suite 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8853</small>
<small>Experience through experience</small>	<small>DRAWN BY: ED DATE: 2/1/2015</small> <small>MODIFIED BY: FM DATE: 1/7/2015</small>

NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

SCALE: 1 INCH = 30 FEET

- X - GEOPROBE BORING LOCATION
 - ◆ - SOIL EXCAVATION SOIL SAMPLE LOCATION
 - REMOVED HORIZONTAL PETROLEUM AST
 - REMOVED VERTICAL PETROLEUM AST
 - FORMER FUEL DISPENSER BUILDING
 - SOIL EXCAVATION (TO 4 FEET BGS)
- PROPERTY LINE _____
- PHONE/FIBER OPTIC LINE - - - - -
- WATER LINE _____
- STORM SEWER LINE _____
- OVERHEAD UTILITY LINES ||| ||| ||| ||| ||| |||

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN SOIL EXCEEDING THE NR720 GROUNDWATER RCL's

NOTE: SOIL SAMPLES G-7-I, G-9-I, AND G-10-I SHOWED NR720 GROUNDWATER RCL EXCEEDANCES FOR LEAD, BUT SHOWED NO NR720 RCL EXCEEDANCES FOR PVOC OR PAH COMPOUNDS.

SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN

Notice: Pursuant to ch. 292, Wis. Stats., and chs. NR 726 and 746, Wis. Adm. Code, this form is required to be completed for case closure requests. The closure of a case means that the Department of Natural Resources (DNR) has determined that no further response is required at that time based on the information that has been submitted to the DNR. All sections of this form must be completed unless otherwise directed by the Department. DNR will consider your request administratively complete when the form and all sections are completed, all attachments are included, and the applicable fees required under ch. NR 749, Wis. Adm. Code, are included, and sent to the proper destinations. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.). Incomplete forms will be considered "administratively incomplete" and processing of the request will stop until required information is provided.

Site Information			
BRRTS No.	VPLE No.		
02-27-000428			
Parcel ID No.			
206-2216.0005			
FID No.	WTM Coordinates		
627002640	X	Y	
	452965	425157	
BRRTS Activity (Site) Name	WTM Coordinates Represent:		
Home Oil Bulk Tanks Winnebago Ave	<input checked="" type="checkbox"/> Source Area <input type="checkbox"/> Parcel Center		
Site Address	City	State	ZIP Code
213 Winnebago Avenue	Black River Falls	WI	54615
Acres Ready For Use	0.13		

Responsible Party (RP) Name			
Brad Chown			
Company Name			
City of Black River Falls			
Mailing Address	City	State	ZIP Code
101 South Second Street	Black River Falls	WI	54615
Phone Number	Email		
(715) 284-5514	city.admin@blackriverfalls.us		

Check here if the RP is the owner of the source property.

Environmental Consultant Name			
Ron Anderson			
Consulting Firm			
METCO			
Mailing Address	City	State	ZIP Code
709 Gillette Street, Suite 3	La Crosse	WI	54603
Phone Number	Email		
(608) 781-8879	rona@metcohq.com		

Fees and Mailing of Closure Request

- Send a copy of page one** of this form and the applicable ch. NR 749, Wis. Adm. Code, fee(s) to the DNR Regional EPA (Environmental Program Associate) at <http://dnr.wi.gov/topic/Brownfields/Contact.html#tabx3>. Check all fees that apply:

<input checked="" type="checkbox"/> \$1,050 Closure Fee	<input checked="" type="checkbox"/> \$300 Database Fee for Soil
<input checked="" type="checkbox"/> \$350 Database Fee for Groundwater or Monitoring Wells (Not Abandoned)	Total Amount of Payment \$ <u>1,700.00</u>
<input type="checkbox"/> Resubmittal, Fees Previously Paid	
- Send one paper copy and one e-copy on compact disk of the entire closure package** to the Regional Project Manager assigned to your site. Submit as *unbound, separate documents* in the order and with the titles prescribed by this form. For electronic document submittal requirements, see <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

Site Summary

If any portion of the Site Summary Section is not relevant to the case closure request, you must fully explain the reasons why in the relevant section of the form. All information submitted shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected.

1. General Site Information and Site History

- A. Site Location: Describe the physical location of the site, both generally and specific to its immediate surroundings.
The Home Oil Bulk Tanks Winnebago Ave site, 213 Winnebago Avenue, is located in the NW 1/4 of the SW 1/4 of Section 14, Township 21 North, Range 4 West, in the City of Black River Falls, Jackson County, Wisconsin. The subject property is bound by the right-of-way of Winnebago Avenue to the northwest and southwest, a vacant lot to the northeast, and an abandoned railroad right-of-way to the southeast.
- B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use.
Home Oil, Inc. operated a bulk petroleum storage facility on the subject property for many years until 1990. The bulk petroleum storage facility consisted of six above ground storage tanks (ASTs) containing gasoline, diesel fuel, and heating oil. The AST systems were removed from the property in November 2005. Currently the property is vacant.
- C. Current zoning (e.g., industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).
According to the Jackson County GIS, the Home Oil Bulk Tanks Winnebago Ave site property located at 213 Winnebago Avenue, is zoned X4 - Other (Tax Exempt). The adjacent vacant property to the northeast is also zoned X4 - Other (Tax Exempt). The subject property is bound by the right-of-way of Winnebago Avenue to the northwest and southwest and an abandoned railroad right-of-way to the southeast.
- D. Describe how and when site contamination was discovered.
On July 23, 1993, Cedar Corporation conducted a limited environmental assessment along Winnebago Avenue in conjunction with a proposed street redevelopment project. During the assessment, test pits were dug to four feet below ground surface (bgs) adjacent to three bulk petroleum storage facilities along Winnebago Avenue. The test pits identified petroleum contamination at the Home Oil bulk facility and another bulk facility (Federation Coop Bulk Oil) located further to the north. The petroleum contamination was subsequently reported to the WDNR, who then required that a site investigation be completed.
- E. Describe the type(s) and source(s) or suspected source(s) of contamination.
Petroleum contamination appears to have originated from the removed AST systems, which contained gasoline, diesel fuel, and heating oil.
- F. Other relevant site description information (or enter Not Applicable).
Not Applicable
- G. List BRRTS activity/site name and number for BRRTS activities at this source property, including closed cases.
Other BRRTS activities associated with the Home Oil property include Texaco Bulk Plant - Old (BRRTS# 07-27-402723) and Winnebago South (BRRTS# 07-27-539907), which appear to have been Brownfield Grants for the Phase 1 and Phase 2 Environmental Assessments conducted by ECCI in 2005.
- H. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to (abutting) this source property.
No other BRRTS activities exist immediately adjacent to this site.

2. General Site Conditions

- A. Soil/Geology
- i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.
Unconsolidated materials in the area of the investigation generally consisted of a fine to coarse grained sand with varying amounts of gravel from ground surface to at least 12 feet below ground surface.
 - ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
Fill materials are present in the areas of the two soil excavations to 4 feet bgs. Excavation fill in the area of the former fuel dispenser building measures approximately 15 feet long and 10 feet wide. Excavation fill in the area of the southern most removed vertical AST measures approximately 18 feet long and 16 feet wide.
 - iii. Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation.
Bedrock was not encountered during the site investigation, however bedrock consisting of a thin discontinuous sandstone underlain by crystalline bedrock is believed to exist at approximately 20-40 feet bgs. The sandstone is absent in some areas.

- iv. Describe the nature and locations of current surface cover(s) across the site (e.g., natural vegetation, landscaped areas, gravel, hard surfaces, and buildings).

The subject property is currently vacant with no structures and is completely covered with grass.

B. Groundwater

- i. Discuss depth to groundwater and piezometric elevations. Describe and explain depth variations, including high and low water table elevation and whether free product affects measurement of water table elevation. Describe the stratigraphic unit(s) where water table was found or which were measured for piezometric levels.

Per discussions with the WDNR, monitoring wells were not installed as part of this site investigation/remediation. Groundwater was encountered at approximately 8 feet bgs in the Geoprobe borings. The stratigraphic units where the water table is found consists of fine to coarse grained sand with varying amounts of gravel. Free product has never been encountered at the site.

- ii. Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if present.

Monitoring wells were not installed as part of this site investigation/remediation. Based on the GIS Registry for the nearby closed Federation Co-op ERP site (BRRTS# 02-27-000426), local shallow horizontal groundwater flow in the immediate area of the subject property is generally toward the northwest and the shallow groundwater horizontal gradient is approximately 6.10×10^{-3} .

- iii. Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.

Monitoring wells were not installed as part of this site investigation, however based on the Geoprobe Project, it appears that the watertable is located within a fine to coarse grained sand with varying amounts of gravel. Book values for the hydraulic conductivity of this material range from 1.00×10^{-1} to 1.00×10^{-3} cm/sec. Based on the nearby closed Federation Coop Bulk Oil Winnebago ERP site (BRRTS# 02-27-000426) the horizontal hydraulic gradient appears to be approximately 6.10×10^{-3} . Using the above values the flow velocity for this site is estimated to range from 6.41 to 641 m/year.

- iv. Identify and describe locations/distance of potable and/or municipal wells within 1200 feet of the site. Include general summary of well construction (geology, depth of casing, depth of screened or open interval).

The subject property and surrounding properties are all served by the City of Black River Falls municipal water service. The nearest known municipal well exists approximately one mile to the south of the subject property. There are no private potable wells known to exist in the area of the subject property.

3. Site Investigation Summary

A. General

- i. Provide a brief summary of the site investigation history. Reference previous submittals by name and date. Describe site investigation activities undertaken since the last submittal for this project and attach the appropriate documentation in Attachment C, if not previously provided.

On July 23, 1993, Cedar Corporation conducted a limited environmental assessment along Winnebago Avenue in conjunction with a proposed street redevelopment project. During the assessment, test pits were dug to four feet below ground surface (bgs) adjacent to three bulk petroleum storage facilities along Winnebago Avenue. The test pits identified petroleum contamination at the Home Oil bulk facility and another bulk facility (Federation Coop Bulk Oil) located further to the north. The petroleum contamination was subsequently reported to the WDNR, who then required that a site investigation be completed. [Site Investigation Field Procedures Workplan - February 16, 2015]

On December 13, 1993, Cedar Corporation completed eleven soil borings in the right of way of Winnebago Avenue to better define the extent of petroleum contamination in the areas of the former bulk petroleum storage facilities. One soil boring (B-8) was advanced in front of the Home Oil bulk facility with a soil sample collected at 8 feet bgs for GRO and PVOC analysis. The laboratory analytical results confirmed the presence of petroleum contamination in soil at this location. [Site Investigation Field Procedures Workplan - February 16, 2015]

In November 2005, Environmental Compliance Consultants, Inc (ECCI) completed eleven soil borings at the former Home Oil and Jensen Oil bulk facilities during a Limited Phase 2 Environmental Assessment. All eleven soil borings were advanced to six feet bgs with soil samples field screened for PID analysis. Six soil samples were submitted for DRO, GRO, and PVOC analysis. Four of the soil borings (A-1, -2, -3, and -4) were completed in the area of the former Home Oil bulk facility. All four of the soil borings at the Home Oil bulk facility showed detects for petroleum compounds with the highest levels being found in the area of former fuel dispenser building. [Site Investigation Field Procedures Workplan - February 16, 2015]

On April 14-15, 2015, METCO supervised the completion of sixteen Geoprobe borings. Forty-eight soil and sixteen groundwater samples were collected for field and/or laboratory analysis (PID, GRO, VOC, PVOC, Naphthalene, PAH, and/or Lead). [Site Investigation Report - Submitted Concurrently with Case Closure Request]

On June 29, 2016, METCO personnel completed two hand augered borings. Two soil samples were collected for field

and laboratory analysis (GRO, DRO, and/or TCLP - Lead). [Site Investigation Report - Submitted Concurrently with Case Closure Request]

- ii. Identify whether contamination extends beyond the source property boundary, and if so describe the media affected (e.g., soil, groundwater, vapors and/or sediment, etc.), and the vertical and horizontal extent of impacts.
Soil contamination exceeding the NR720 RCL's does not appear to extend beyond the property boundaries of the site.

A dissolved phase contaminant plume exceeding the NR140 ES has formed at the watertable and has migrated toward the north-northwest, however the contaminant plume does not appear to extend beyond the property boundaries of the site.

- iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

No structural impediments interfered with the completion of the site investigation.

B. Soil

- i. Describe degree and extent of soil contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways.

Areas of unsaturated soil contamination, which exceed the NR720 Groundwater RCL values, exist in the areas of the former fuel dispenser building and the southern most removed vertical AST. In the area of the removed vertical AST, this area appears to measure approximately 25 feet long, 20 feet wide, and up to 8 feet thick. In the area of the former fuel dispenser building, this area appears to measure approximately 18 feet long, 7 feet wide, and up to 4 feet thick.

Soil contamination exceeding the NR720 Non-Industrial Direct Contact RCL's does not appear to be present at this site following the excavation project.

One underground utility line (Buried Communication) exists in the area of soil and groundwater contamination. This utility line is likely buried less than 3 feet bgs and back filled with native soils. Based on the approximate depth to groundwater measurements from Geoprobe project this utility line does not appear to be intersecting the watertable. Therefore, these utility corridors do not appear to be preferential contaminant migration pathways.

No structures currently exist in the area of the residual soil and groundwater contamination. Therefore, there does not appear to be any risk of vapor intrusion to nearby buildings.

- ii. Describe the concentration(s) and types of soil contaminants found in the upper four feet of the soil column.
Soil samples collected within the upper four feet of the soil column exceeding the NR720 RCL's include:

G-5-1: Lead (57.1 ppm), Benzene (0.54 ppm), Toluene (3.4 ppm), Trimethylbenzenes (1.69 ppm), and Xylene (4.67 ppm) at 3.5 feet bgs

G-6-1: Lead (37.2 ppm) and Trimethylbenzenes (4.95 ppm) at 3.5 feet bgs

G-7-1: Lead (27.5 ppm) at 3.5 feet bgs

G-9-1: Lead (32.8 ppm) at 3.5 feet bgs

G-10-1: Lead (33.7 ppm) at 3.5 feet bgs

EX-1: Benzene (0.174 ppm) at 3 feet bgs

EX-2: Benzene (0.279 ppm), Toluene (1.32 ppm), and Trimethylbenzenes (2.28 ppm) at feet bgs

- iii. Identify the ch. NR 720, Wis. Adm. Code, method used to establish the soil cleanup standards for this site. This includes a soil performance standard established in accordance with s. NR 720.08, a Residual Contaminant Level (RCL) established in accordance with s. NR 720.10 that is protective of groundwater quality, or an RCL established in accordance with s. NR 720.12 that is protective of human health from direct contact with contaminated soil. Identify the land use classification that was used to establish cleanup standards. Provide a copy of the supporting calculations/information in Attachment C.

The method used to establish the soil cleanup standards for this site were the NR720 RCL's. The property is zoned X4-Other (Tax Exempt), therefore non-industrial standards were used for this site.

C. Groundwater

- i. Describe degree and extent of groundwater contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways. Specifically address any potential or existing impacts to water supply wells or interception with building foundation drain systems.

A dissolved phase contaminant plume exceeding the NR140 ES and PAL has formed at the watertable and has migrated toward the north-northwest. This plume is approximately 72 feet long and up to 46 feet wide.

The subject property and surrounding properties are all served by the City of Black River Falls municipal water service. The nearest known municipal well exists approximately one mile to the south of the subject property. There are no private potable wells known to exist in the area of the subject property. The groundwater contamination plume does not

appear to intercept any building foundation drain systems.

- ii. Describe the presence of free product at the site, including the thickness, depth, and locations. Identify the depth and location of the smear zone.

Free product has never been encountered at this site. Monitoring wells were not installed as part of this site investigation/remediation, however the watertable was encountered at approximately 8 feet bgs during the Geoprobe project.

D. Vapor

- i. Describe how the vapor migration pathway was assessed, including locations where vapor, soil gas, or indoor air samples were collected. If the vapor pathway was not assessed, explain reasons why.

No structures currently exist in the area of the residual soil and groundwater contamination. Therefore, there does not appear to be any risk of vapor intrusion to nearby buildings.

- ii. Identify the applicable DNR action levels and the land use classification used to establish them. Describe where the DNR action levels were reached or exceeded (e.g., sub slab, indoor air or both).

No indoor/sub slab vapor samples were collected.

E. Surface Water and Sediment

- i. Identify whether surface water and/or sediment was assessed and describe the impacts found. If this pathway was not assessed, explain why.

The nearest surface water is the Black River, which exists approximately 650 feet to the northwest of the subject property. No surface water or sediment samples were collected since it does not appear that the extent of petroleum contamination has migrated to any surface waters.

- ii. Identify any surface water and/or sediment action levels used to assess the impacts for this pathway and how these were derived. Describe where the DNR action levels were reached or exceeded.

No surface water or sediment samples were collected.

4. Remedial Actions Implemented and Residual Levels at Closure

- A. General: Provide a brief summary of the remedial action history. List previous remedial action report submittals by name and date. Identify remedial actions undertaken since the last submittal for this project and provide the appropriate documentation in Attachment C.

On July 26, 2016, DKS Construction Services, Inc, of Menomonie, Wisconsin, under METCO supervision conducted and excavation project during which 109.94 tons of petroleum contaminated soil was excavated and properly disposed of from the areas of the former fuel dispenser building and the southern most removed vertical AST. The soil excavation conducted in the area of the former fuel dispenser building measured approximately 15 feet long, 10 feet wide, and 4 feet deep while the excavation conducted in the area of the southern most removed vertical AST measured approximately 18 feet long, 16 feet wide, and 4 feet deep. The petroleum contaminated soil was disposed of at the Advanced Disposal Seven Mile Creek Landfill in Eau Claire, Wisconsin. Eight sidewall soil samples (EX-1 through EX-8) were collected from 3 feet bgs for field description and laboratory analysis (PVOC and PAH). [Site Investigation Report - Submitted Concurrently with Case Closure Request]

- B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.
No immediate or interim actions occurred at this site.

- C. Describe the *active* remedial actions taken at the source property, including: type of remedial system(s) used for each media affected; the size and location of any excavation or in-situ treatment; the effectiveness of the systems to address the contaminated media and substances; operational history of the systems; and summarize the performance of the active remedial actions. Provide any system performance documentation in Attachment A.7.

On July 26, 2016, DKS Construction Services, Inc, of Menomonie, Wisconsin, under METCO supervision conducted and excavation project during which 109.94 tons of petroleum contaminated soil was excavated and properly disposed of from the areas of the former fuel dispenser building and the southern most removed vertical AST. The soil excavation conducted in the area of the former fuel dispenser building measured approximately 15 feet long, 10 feet wide, and 4 feet deep while the excavation conducted in the area of the southern most removed vertical AST measured approximately 18 feet long, 16 feet wide, and 4 feet deep. The petroleum contaminated soil was disposed of at the Advanced Disposal Seven Mile Creek Landfill in Eau Claire, Wisconsin. Eight sidewall soil samples (EX-1 through EX-8) were collected from 3 feet bgs for field description and laboratory analysis (PVOC and PAH). [Site Investigation Report - Submitted Concurrently with Case Closure Request]

- D. Describe the alternatives considered during the Green and Sustainable Remediation evaluation in accordance with NR 722.09 and any practices implemented as a result of the evaluation.

No evaluation of Green and Sustainable Remediation was conducted.

- E. Describe the nature, degree and extent of residual contamination that will remain at the source property or on other affected properties after case closure.
- Areas of unsaturated soil contamination, which exceed the NR720 Groundwater RCL values, exist in the areas of the former fuel dispenser building and the southern most removed vertical AST. In the area of the removed vertical AST, this area appears to measure approximately 25 feet long, 20 feet wide, and up to 8 feet thick. In the area of the former fuel dispenser building, this area appears to measure approximately 18 feet long, 7 feet wide, and up to 4 feet thick.
- Soil contamination exceeding the NR720 Non-Industrial Direct Contact RCL's does not appear to be present at this site following the excavation project.
- Soil contamination exceeding the NR720 RCL's does not appear to extend beyond the property boundaries of the site.
- A dissolved phase contaminant plume exceeding the NR140 ES and PAL has formed at the watertable and has migrated toward the north-northwest. This plume is approximately 72 feet long and up to 46 feet wide.
- The dissolved phase contaminant plume exceeding the NR140 Enforcement Standard does not appear to extend beyond the property boundaries of the site.
- F. Describe the residual soil contamination within four feet of ground surface (direct contact zone) that attains or exceeds RCLs established under s. NR 720.12, Wis. Adm. Code, for protection of human health from direct contact.
- Soil contamination exceeding the NR720 Non-Industrial Direct Contact RCL's does not appear to be present at this site following the excavation project.
- G. Describe the residual soil contamination that is above the observed low water table that attains or exceeds the soil standard(s) for the groundwater pathway.
- Soil samples exceeding the NR720 Groundwater RCL's include:
- A-4: Ethylbenzene (4.1 ppm), Trimethylbenzenes (19.6 ppm), and Xylene (4.8 ppm) at 6 feet bgs.
 - G-5-1: Lead (57.1 ppm), Benzene (0.54 ppm), Toluene (3.4 ppm), Trimethylbenzenes (1.69 ppm), and Xylene (4.67 ppm) at 3.5 feet bgs
 - G-6-1: Lead (37.2 ppm) and Trimethylbenzenes (4.95 ppm) at 3.5 feet bgs
 - G-7-1: Lead (27.5 ppm) at 3.5 feet bgs
 - G-9-1: Lead (32.8 ppm) at 3.5 feet bgs
 - G-10-1: Lead (33.7 ppm) at 3.5 feet bgs
 - EX-1: Benzene (0.174 ppm) at 3 feet bgs
 - EX-2: Benzene (0.279 ppm), Toluene (1.32 ppm). and Trimethylbenzenes (2.28 ppm) at feet bgs
- H. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.
- Any remaining exposure pathways will be addressed via natural attenuation.
- I. If using natural attenuation as a groundwater remedy, describe how the data collected supports the conclusion that natural attenuation is effective in reducing contaminant mass and concentration (e.g., stable or receding groundwater plume).
- Since most of the accessible contaminated soil was removed during the excavation projects, it appears that natural attenuation will be effective in reducing the remaining contaminant mass.
- J. Identify how all exposure pathways (soil, groundwater, vapor) were removed and/or adequately addressed by immediate, interim and/or remedial action(s).
- Any remaining exposure pathways will be addressed via natural attenuation.
- K. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain.
- No system hardware is anticipated to be left in place after site closure.
- L. Identify the need for a ch. NR 140, Wis. Adm. Code, groundwater Preventive Action Limit (PAL) or Enforcement Standard (ES) exemption, and identify the affected monitoring points and applicable substances.
- Geoprobe groundwater sample G-1-W showed NR140 PAL exceedances for Benzene (1.01 ppb), Naphthalene (27.4 ppb), and Trimethylbenzenes (153 ppb).
- Geoprobe groundwater sample G-2-W showed NR140 PAL exceedances for Naphthalene (61 ppb) and Trimethylbenzenes (264 ppb).
- Geoprobe groundwater sample G-3-W showed NR140 PAL exceedances for Naphthalene (35 ppb) and Trimethylbenzenes (259 ppb).
- Geoprobe groundwater sample G-4-W showed a NR140 ES exceedance for Benzene (7.9 ppb). The contaminant concentrations of Naphthalene (30.3 ppb), Trimethylbenzenes (201 ppb), and Xylene (495 ppb) exceeded the NR140 PAL.

Geoprobe groundwater sample G-9-W showed NR140 PAL exceedances for Benzene (0.69 ppb), Naphthalene (24.3 ppb), and Trimethylbenzenes (135 ppb).

M. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.

No indoor/sub slab vapor samples were collected.

N. Describe the surface water and/or sediment contaminant concentrations and areas after remediation. If a DNR action level was exceeded, describe where it was exceeded and how the pathway was addressed.

No surface water or sediment samples were collected.

5. Continuing Obligations: Situations where sites, including all affected properties and rights-of-way (ROWs), are included on the DNR's GIS Registry. In certain situations, maintenance plans are also required, and must be included in Attachment D.

Directions: For each of the 3 property types below, check all situations that apply to this closure request.

(NOTE: Monitoring wells to be transferred to another site are addressed in Attachment E.)

This situation applies to the following property or Right of Way (ROW):			Case Closure Situation - Continuing Obligation Inclusion on the GIS Registry is Required (ii. - xiv.)	Maintenance Plan Required	
Property Type:					
Source Property	Affected Property (Off-Source)	ROW			
i.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	None of the following situations apply to this case closure request.	NA
ii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual groundwater contamination exceeds ch. NR 140 ESs.	NA
iii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination exceeds ch. NR 720 RCLs.	NA
iv.				Monitoring Wells Remain:	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Not Abandoned (filled and sealed)	NA
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Continued Monitoring (requested or required)	Yes
v.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cover/Barrier/Engineered Cover or Control for (soil) direct contact pathways (includes vapor barriers)	Yes
vi.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cover/Barrier/Engineered Cover or Control for (soil) groundwater infiltration pathway	Yes
vii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Structural Impediment: impedes completion of investigation or remedial action (not as a performance standard cover)	NA
viii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination meets NR 720 industrial soil RCLs, land use is classified as industrial	NA
ix.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor Mitigation System (VMS) required due to exceedances of vapor risk screening levels or other health based concern	Yes
x.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor: Dewatering System needed for VMS to work effectively	Yes
xi.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor: Compounds of Concern in use: full vapor assessment could not be completed	NA
xii.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor: Commercial/industrial exposure assumptions used.	NA
xiii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vapor: Residual volatile contamination poses future risk of vapor intrusion	NA
xiv.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site-specific situation: (e. g., fencing, methane monitoring, other) (discuss with project manager before submitting the closure request)	Site specific

6. Underground Storage Tanks

- A. Were any tanks, piping or other associated tank system components removed as part of the investigation or remedial action? Yes No
- B. Do any upgraded tanks meeting the requirements of ch. ATCP 93, Wis. Adm. Code, exist on the property? Yes No
- C. If the answer to question 6.B. is yes, is the leak detection system currently being monitored? Yes No

General Instructions

All information shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected. For each attachment (A-G), provide a Table of Contents page, listing all 'applicable' and 'not applicable' items by Closure Form titles (e.g., A.1. Groundwater Analytical Table, A.2. Soil Analytical Results Table, etc.). If any item is 'not applicable' to the case closure request, you must fully explain the reasons why.

Data Tables (Attachment A)

Directions for Data Tables:

- Use **bold** and italics font for information of importance on tables and figures. Use **bold** font for ch. NR 140, Wis. Adm. Code ES attainments or exceedances, and *italicized font* for ch. NR 140, Wis. Adm. Code, PAL attainments or exceedances.
- Use **bold** font to identify individual ch. NR 720 Wis. Adm. Code RCL exceedances. Tables should also include the corresponding groundwater pathway and direct contact pathway RCLs for comparison purposes. Cumulative hazard index and cumulative cancer risk exceedances should also be tabulated and identified on Tables A.2 and A.3.
- Do not use shading or highlighting on the analytical tables.
- Include on Data Tables the level of detection for results which are below the detection level (i.e., do not just list as no detect (ND)).
- Include the units on data tables.
- Summaries of all data must include information collected by previous consultants.
- Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15 (3)(c), Wis. Adm. Code, in the format required in s. NR 716.15(4)(e), Wis. Adm. Code.
- Include in Attachment A all of the following tables, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: A.1. Groundwater Analytical Table; A.2. Soil Analytical Results Table, etc.).
- For required documents, each table (e.g., A.1., A.2., etc.) should be a separate Portable Document Format (PDF).

A. Data Tables

- A.1. **Groundwater Analytical Table(s)**: Table(s) showing the analytical results and collection dates for all groundwater sampling points (e.g., monitoring wells, temporary wells, sumps, extraction wells, potable wells) for which samples have been collected.
- A.2. **Soil Analytical Results Table(s)**: Table(s) showing **all** soil analytical results and collection dates. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated).
- A.3. **Residual Soil Contamination Table(s)**: Table(s) showing the analytical results of only the residual soil contamination at the time of closure. This table shall be a subset of table A.2 and should include only the soil sample locations that exceed an RCL. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated). Table A.3 is optional only if a total of fewer than 15 soil samples have been collected at the site.
- A.4. **Vapor Analytical Table(s)**: Table(s) showing type(s) of samples, sample collection methods, analytical method, sample results, date of sample collection, time period for sample collection, method and results of leak detection, and date, method and results of communication testing.
- A.5. **Other Media of Concern (e.g., sediment or surface water)**: Table(s) showing type(s) of sample, sample collection method, analytical method, sample results, date of sample collection, and time period for sample collection.
- A.6. **Water Level Elevations**: Table(s) showing all water level elevation measurements and dates from all monitoring wells. If present, free product should be noted on the table.
- A.7. **Other**: This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

Maps, Figures and Photos (Attachment B)

Directions for Maps, Figures and Photos:

- Provide on paper no larger than 11 x 17 inches, unless otherwise directed by the Department. Maps and figures may be submitted in a larger electronic size than 11 x 17 inches, in a PDF readable by the Adobe Acrobat Reader. However, those larger-size documents must be legible when printed.
- Prepare visual aids, including maps, plans, drawings, fence diagrams, tables and photographs according to the applicable portions of ss. NR 716.15(4), 726.09(2) and 726.11(3), (5) and (6), Wis. Adm. Code.
- Include all sample locations.
- Contour lines should be clearly labeled and defined.
- Include in Attachment B all of the following maps and figures, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: B.1. Location Map; B.2. Detailed Site Map, etc).
- For the electronic copies that are required, each map (e.g., B.1.a., B.2.a, etc.) should be a separate PDF.
- Maps, figures and photos should be dated to reflect the most recent revision.

B.1. Location Maps

- B.1.a. **Location Map**: A map outlining all properties within the contaminated site boundaries on a United States Geological Survey (U.S.G.S.) topographic map or plat map in sufficient detail to permit easy location of all affected and/or adjacent parcels. If groundwater standards are exceeded, include the location of all potable wells, including municipal wells, within 1200 feet of the area of contamination.
- B.1.b. **Detailed Site Map**: A map that shows all relevant features (buildings, roads, current ground surface cover, individual property boundaries for all affected properties, 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 attaining or exceeding a ch. NR 140 ES, and/or in relation to the boundaries of soil contamination attaining or exceeding a RCL. Provide parcel identification numbers for all affected properties.
- B.1.c. **RR Sites Map**: From RR Sites Map ([http://dnrmaps.wi.gov/sl/?Viewer=RR Sites](http://dnrmaps.wi.gov/sl/?Viewer=RR%20Sites)) attach a map depicting the source property, and all open and closed BRRTS sites within a half-mile radius or less of the property.

B.2. Soil Figures

- B.2.a. **Soil Contamination:** Figure(s) showing the location of **all** identified unsaturated soil contamination. Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720.Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedances (0-4 foot depth).
- B.2.b. **Residual Soil Contamination:** Figure(s) showing only the locations of soil samples where unsaturated soil contamination remains at the time of closure (locations represented in Table A.3). Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720 Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedance (0-4 foot depth).

B.3. Groundwater Figures

- B.3.a. **Geologic Cross-Section Figure(s):** One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:
- Source location(s) and vertical extent of residual soil contamination exceeding an RCL. Distinguish between direct contact and the groundwater pathway RCLs.
 - Source location(s) and lateral and vertical extent if groundwater contamination exceeds ch. NR 140 ES.
 - Surface features, including buildings and basements, and show surface elevation changes.
 - Any areas of active remediation within the cross section path, such as excavations or treatment zones.
 - Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1.b.)
- B.3.b. **Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, PAL and/or an ES. Indicate the date and direction of groundwater flow based on the most recent sampling data.
- B.3.c. **Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.
- B.3.d. **Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been abandoned.

B.4. Vapor Maps and Other Media

- B.4.a. **Vapor Intrusion Map:** Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway in relation to residual soil and groundwater contamination, including sub-slab, indoor air, soil vapor, soil gas, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.
- B.4.b. **Other media of concern (e.g., sediment or surface water):** Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.
- B.4.c. **Other:** Include any other relevant maps and figures not otherwise noted above. (This section may remain blank).
- B.5. **Structural Impediment Photos:** One or more photographs documenting the structural impediment feature(s) which precluded a complete site investigation or remediation at the time of the closure request. The photographs should document the area that could not be investigated or remediated due to a structural impediment. The structural impediment should be indicated on Figures B.2.a and B.2.b.

Documentation of Remedial Action (Attachment C)**Directions for Documentation of Remedial Action:**

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc.).
- If the documentation requested below has already been submitted to the DNR, please note the title and date of the report for that particular document requested.
 - C.1. **Site investigation documentation**, that has not otherwise been submitted with the Site Investigation Report.
 - C.2. **Investigative waste** disposal documentation.
 - C.3. Provide a **description of the methodology** used along with all supporting documentation if the RCLs are different than those contained in the Department's RCL Spreadsheet available at: <http://dnr.wi.gov/topic/Brownfields/Professionals.html>.
 - C.4. **Construction documentation** or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.
 - C.5. **Decommissioning of Remedial Systems.** Include plans to properly abandon any systems or equipment.
 - C.6. **Other.** Include any other relevant documentation not otherwise noted above (This section may remain blank).

Maintenance Plan(s) and Photographs (Attachment D)**Directions for Maintenance Plans and Photographs:**

Attach a maintenance plan for each affected property (source property, each off-source affected property) with continuing obligations requiring future maintenance (e.g., direct contact, groundwater protection, vapor intrusion). See Site Summary section 5 for all affected property(s) requiring a maintenance plan. Maintenance plan guidance and/or templates for: 1) Cover/barrier systems; 2) Vapor intrusion; and 3) Monitoring wells, can be found at: <http://dnr.wi.gov/topic/Brownfields/Professionals.html#tabx3>

- D.1. **Descriptions of maintenance action(s) required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required:**
- Provide brief descriptions of the type, depth and location of residual contamination.

- Provide a description of the system/cover/barrier/monitoring well(s) to be maintained.
 - Provide a description of the maintenance actions required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required.
 - Provide contact information, including the name, address and phone number of the individual or facility who will be conducting the maintenance.
- D.2. **Location map(s) which show(s):** (1) the feature that requires maintenance; (2) the location of the feature(s) that require(s) maintenance - on and off the source property; (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site; (4) the extent and type of residual contamination; and (5) all property boundaries.
- D.3. **Photographs** for site or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system, include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features shall be visible and discernible. Photographs shall be submitted with a title related to the site name and location, and the date on which it was taken.
- D.4. **Inspection log**, to be maintained on site, or at a location specified in the maintenance plan or approval letter. The inspection and maintenance log is found at: <http://dnr.wi.gov/files/PDF/forms/4400/4400-305.pdf>.

Monitoring Well Information (Attachment E)

Directions for Monitoring Well Information:

For all wells that will remain in use, be transferred to another party, or that could not be located; attach monitoring well construction and development forms (DNR Form 4400-113 A and B: http://dnr.wi.gov/topic/groundwater/documents/forms/4400_113_1_2.pdf)

Select One:

- No monitoring wells were installed as part of this response action.
- All monitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site
- Select One or More:**
 - Not all monitoring wells can be located, despite good faith efforts. Attachment E must include a description of efforts made to locate the wells.
 - One or more wells will remain in use at the site after this closure. Attachment E must include documentation as to the reason (s) the well(s) will remain in use. When one or more monitoring wells will remain in use this is considered a continuing obligation and a maintenance plan will be required and must be included in Attachment D.
 - One or more monitoring wells will be transferred to another owner upon case closure being granted. Attachment E should include documentation identifying the name, address and email for the new owner(s). Provide documentation from the party accepting future responsibility for monitoring well(s).

Source Legal Documents (Attachment F)

Directions for Source Legal Documents:

Label documents with the specific closure form titles (e.g., F.1. Deed, F.2. Certified Survey Map, etc.). Include all of the following documents, in the order listed:

- F.1. **Deed:** The most recent deed with legal description clearly listed.
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.
- F.2. **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. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- F.3. **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- F.4. **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description(s) accurately describe(s) the correct contaminated property or properties. This section applies to the source property only. Signed statements for Other Affected Properties should be included in Attachment G.

Notifications to Owners of Affected Properties (Attachment G)**Directions for Notifications to Owners of Affected Properties:**

Complete the table on the following page for sites which require notification to owners of affected properties pursuant to ch. 292, Wis. Stats. and ch. NR 725 and 726, Wis. Adm. Code. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31- 19.39, Wis. Stats.]. The DNR's "Guidance on Case Closure and the Requirements for Managing Continuing Obligations" (PUB-RR-606) lists specific notification requirements <http://dnr.wi.gov/files/PDF/pubs/rr/RR606.pdf>.

State law requires that the responsible party provide a 30-day, written advance notification to certain persons prior to applying for case closure. This requirement applies if: (1) the person conducting the response action does not own the source property; (2) the contamination has migrated onto another property; and/or (3) one or more monitoring wells will not be abandoned. Use form 4400-286, Notification of Continuing Obligations and Residual Contamination, at <http://dnr.wi.gov/files/PDF/forms/4400/4400-286.pdf>

Include a copy of each notification sent and accompanying proof of delivery, i.e., return receipt or signature confirmation. (These items will not be placed on the GIS Registry.)

Include the following documents for each property, keeping each property's documents grouped together and labeled with the letter G and the corresponding ID number from the table on the following page. (Source Property documents should only be included in Attachment F):

- **Deed:** The most recent deed with legal descriptions clearly listed for all affected properties.
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. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes the attached legal description(s) accurately describe(s) the correct contaminated property or properties.

Signatures and Findings for Closure Determination

Check the correct box for this case closure request, and have either a professional engineer or a hydrogeologist, as defined in ch. NR 712, Wis. Adm. Code, sign this document.

A response action(s) for this site addresses groundwater contamination (including natural attenuation remedies).

The response action(s) for this site addresses media other than groundwater.

Engineering Certification

I _____ hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this case closure request has been prepared by me or prepared under my supervision in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this case closure request is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

Printed Name

Title

Signature

Date

P.E. Stamp and Number

Hydrogeologist Certification

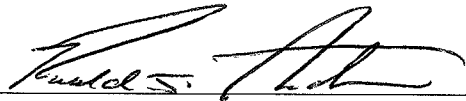
I Ronald J. Anderson hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this case closure request is correct and the document was prepared by me or prepared by me or prepared under my supervision and, in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

Ronald J. Anderson

Senior Hydrogeologist/Project Manager

Printed Name

Title



Signature


Date

Wisconsin Department of Natural Resources
Case Closure – GIS Registry (Revised)
NR 4400-202

For: Home Oil Bulk Tanks Winnebago Ave
BRRTS # 02-27-000428

August 21, 2017



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April 27, 2017

BRRTS# 02-27-000428

Deena Kinney, Environmental Program Associate
WDNR Remediation and Redevelopment Program
West Central Region Office
1300 W. Clairemont Avenue
Eau Claire, WI 54701

RE: Home Oil Bulk Tanks Winnebago Avenue

Dear Ms. Kinney,

Enclosed is the \$1,050 Closure Review Fee and the \$650.00 GIS Registry fees (Soil & Groundwater) for the Home Oil Bulk Tanks Winnebago Avenue site (BRRTS# 02-27-000428) in Black River Falls, Wisconsin. The complete closure submittal is being sent to Aaron Kent of the Wisconsin Department of Natural Resources.

Sincerely,

Jason T. Powell
Staff Scientist

c: Brad Chown (City of Black River Falls) – Client

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Attachment A/Data Tables

A.1 Groundwater Analytical Table(s)

A.2 Soil Analytical Results Table(s)

A.3 Residual Soil Contamination Table(s)

A.4 Vapor Analytical Table – No vapor samples were assessed as part of the site investigation.

A.5 Other Media of Concern (e.g., sediment or surface water) – No surface waters or sediments were assessed as part of the site investigation.

A.6 Water Level Elevations – Monitoring wells were not installed as part of this site investigation.

A.7 Other

A.1 Groundwater Analytical Table

(Geoprobe)

Home Oil Bulk Tanks Winnebago Ave. - BRF BRRTS # 02-27-000428

Sample ID	Date	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
G-1-W	04/14/15	NS	1.01	16.9	<0.49	27.4	2.36	153	64.1
G-2-W	04/14/15	NS	<4.6	28.9	<4.9	61	4.5	264	244
G-3-W	04/15/15	NS	<4.6	40	<4.9	35	<3.9	259	243
G-4-W	04/14/15	NS	7.9	68	<0.49	30.3	7	201	495
G-5-W	04/14/15	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
G-6-W	04/14/15	NS	<0.44	<0.71	<1.1	4.2	<0.44	13.2	<3.1
G-7-W	04/14/15	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
G-8-W	04/14/15	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
G-9-W	04/14/15	NS	0.69	9.4	<0.49	24.3	21.1	135	48.7
G-10-W	04/14/15	NS	<0.44	1.76	<1.1	<1.6	0.57	9.6-11.10	8.55
G-11-W	04/14/15	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
G-12-W	04/14/15	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
G-13-W	04/14/15	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
G-14-W	04/14/15	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
G-15-W	04/14/15	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
G-16-W	04/14/15	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
ENFORCEMENT STANDARDS = Bold									
		-	5	700	60	100	800	480	2000
<i>PREVENTIVE ACTION LIMIT PAL = Italics</i>									
		-	0.5	140	12	10	160	96	400

NS = Not Sampled

(ppb) = parts per billion

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

A.2. Soil Analytical Results Table

Home Oil Bulk Tanks Winnebago Ave. - BRF BRRTS # 02-27-000428

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED			
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk	
B-8-8	8.0	S	12/13/93	30-450	NS	NS	400	<0.040	1.5	<0.04	NS	<0.040	1.6	20	3.5	NS				
B-9	0.4	U	12/13/93	0	NS	NS	NS	NOT SAMPLED									NS	0		
A-1	6.0	U	11/06/05	0.1	NS	160	3.8	<0.015	<0.014	<0.018	NS	<0.013	<0.011	<0.013	<0.002	NS				
A-2	6.0	U	11/06/05	0.1	NS	300	NS	NOT SAMPLED									NS			
A-3	6.0	U	11/06/05	2.7	NS	450	47	<0.150	<0.140	<0.180	NS	<0.130	<0.110	<0.130	<0.550	NS				
A-4	6.0	U	11/06/05	168.9	NS	7900	1200	<0.730	4.1	<0.920	NS	<0.670	7.6	12	4.8	NS				
G-1-1	3.5	U	04/14/15	0	10.6	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0006	1.0E-08	
G-1-2	8.0	S	04/14/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-1-3	9.0	S	04/14/15	100	NS	NS	NS	<1.25	<1.25	<1.25	22.3	<1.25	8.0	4.5	7.63	NS				
G-2-1	3.5	U	04/14/15	0	183	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.4592	3.1E-07	
G-2-2	8.0	S	04/14/15	45	NS	NS	NS	NOT SAMPLED									NS			
G-2-3	9.0	S	04/14/15	130	3.13	NS	NS	<0.016	<0.027	<0.025	<0.087	<0.031	0.302	0.12	<0.099	SEE VOC SHEET				
G-3-1	3.5	U	04/15/15	NM	3.28	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0			
G-3-2	8.0	S	04/15/15	5	NS	NS	NS	NOT SAMPLED									NS			
G-3-3	9.0	S	04/15/15	65	NS	NS	NS	<1.25	<1.25	<1.25	13.6	<1.25	3.9	1.79	2.29-4.79	NS				
G-4-1	3.5	U	04/15/15	55	46.7	NS	NS	0.78	8.2	<0.025	13.9	0.66	46	22.1	84.7	NS	4	0.7293	9.50E-06	
G-4-2	8.0	S	04/15/15	95	NS	NS	NS	<1.25	<1.25	<1.25	11.2	<1.25	8.8	4.9	9.9	NS				
G-4-3	10.0	S	04/15/15	80	NS	NS	NS	NOT SAMPLED									NS			
G-5-1	3.5	U	04/15/15	5	57.1	NS	NS	0.54	0.61	<0.025	<0.0203	3.4	1.26	0.43	4.67	NS	0	0.1590	4.1E-07	
G-5-2	8.0	S	04/15/15	20	NS	NS	NS	<0.025	<0.025	<0.025	2.85	<0.025	0.122	0.14	<0.075	NS				
G-5-3	10.0	S	04/15/15	10	NS	NS	NS	NOT SAMPLED									NS			
G-6-1	3.5	U	04/15/15	5	37.2	NS	NS	<1.25	<1.25	<1.25	0.064	<1.25	2.84	2.11	<3.75	NS	0	0.0157	1.7E-07	
G-6-2	8.0	S	04/15/15	45	NS	NS	NS	<0.05	0.076	<0.05	5.4	0.089	1.16	1.07	0.405	NS				
G-6-3	10.0	S	04/15/15	5	NS	NS	NS	NOT SAMPLED									NS			
G-7-1	3.5	U	04/15/15	0	27.5	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0			
G-7-2	8.0	S	04/15/15	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-7-3	10.0	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-8-1	3.5	U	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS	0		
G-8-2	8.0	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-8-3	10.0	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-9-1	3.5	U	04/15/15	0	32.8	NS	NS	<0.025	<0.025	<0.025	0.048	0.112	0.053	0.183	0.259	NS	0	0.0017	1.2E-08	
G-9-2	8.0	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-9-3	9.0	S	04/15/15	25	NS	NS	NS	<0.025	<0.025	<0.025	0.37	0.033	0.305	0.197	0.141	NS				
G-10-1	3.5	U	04/15/15	0	33.7	NS	NS	<0.025	<0.025	<0.025	<0.0203	0.041	<0.025	<0.025	<0.075	NS	0	0.0001	1.3E-09	
G-10-2	8.0	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-10-3	9.0	S	04/15/15	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-11-1	3.5	U	04/15/15	NM	6.08	NS	NS	<0.025	<0.025	<0.025	<0.0203	<0.025	<0.025	<0.025	<0.075	NS	0			
G-11-2	4.8	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-11-3	9.0	S	04/15/15	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-12-1	3.5	U	04/15/15	0	1.30	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0			
G-12-2	8.0	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-12-3	9.0	S	04/15/15	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-13-1	3.5	U	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS	0		
G-13-2	8.0	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-13-3	9.0	S	04/15/15	25	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-14-1	3.5	U	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS	0		
G-14-2	8.0	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-14-3	9.5	S	04/15/15	10	NS	NS	NS	<0.025	<0.025	<0.025	14.2	<0.025	0.77	0.25	0.135-0.185	NS				
G-15-1	3.5	U	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS	0		
G-15-2	8.0	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-15-3	10.0	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-16-1	3.5	U	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS	0		
G-16-2	8.0	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
G-16-3	10.0	S	04/15/15	0	NS	NS	NS	NOT SAMPLED									NS			
HS-1	3.0	U	06/29/16	NS	NS	NS	NS	NOT SAMPLED									0.523 TCLP - Lead	0		
HS-2	3.0	U	06/29/16	NS	NS	235.0	25.5	NOT SAMPLED									NS	0		
EX-1	3.0	U	07/26/16	NS	NS	-	NS	0.174	<0.025	<0.025	0.109	0.36	0.052	0.051	0.348	NS	0	0.0068	7.0E-07	
EX-2	3.0	U	07/26/16	NS	NS	NS	NS	0.279	0.32	<0.025	0.079	1.32	1.64	0.64	3.18	NS	0	0.0155	4.9E-07	
EX-3	3.0	U	07/26/16	NS	NS	NS	NS	<0.025	<0.025	<0.025	<0.0122	<0.025	<0.025	<0.025	<0.075	NS	0			
EX-4	3.0	U	07/26/16	NS	NS	NS	NS	<0.025	<0.025	<0.025	<0.0122	<0.025	<0.025	<0.025	<0.075	NS	0			
EX-5	3.0	U	07/26/16	NS	NS	NS	NS	<0.025	<0.025	<0.025	0.11	0.059	0.040	<0.025	0.039-0.089	NS	0	0.0018	4.1E-08	
EX-6	3.0	U	07/26/16	NS	NS	NS	NS	<0.025	<0.025	<0.025	<0.0122	0.10	0.052	<0.025	0.152	NS	0	0.0003		
EX-7	3.0	U	07/26/16	NS	NS	NS	NS	<0.025	<0.025	<0.025	<0.0122	<0.025	<0.025	<0.025	<0.075	NS	0	0.0001	1.5E-08	
EX-8	3.0	U	07/26/16	NS	NS	NS	NS	<0.025	<0.025	<0.025	<0.0122	<0.025	<0.025	<0.025	<0.075	NS	0			
Groundwater RCL				27	-	-	-	0.00512	1.57	0.027	0.6582	1.11	1.38	3.96	-	-				
Non-Industrial Direct Contact RCL				400	-	-	-	1.6	8.02	63.8	5.52	818	219	182	258	-	-	1.00E+00	1.00E-05	
Industrial Direct Contact RCL				(800)	-	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(258)	-	-	1.00E+00	1.00E-05	
Soil Saturation Concentration (C-sat)*				-	-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-	-			

NS = Not Sampled

NS = Non Industrial Direct Contact RCL Exceedance

NS (with parentheses) = Industrial Direct Contact RCL Exceedance

NS & Asteric * = C-sat Exceedance

NS = Industrial Direct Contact RCL

NS = Not Measured

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

VOC's = Volatile Organic Compounds

Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.2. Soil Analytical Results Table
(PAH)
Home Oil Bulk Tanks Winnebago Ave. - BRF BRRTS # 02-27-000428

Sample	Depth (feet)	Saturation U/S	Date	DIRECT CONTACT PVOC & PAH COMBINED																	Exceedance Count	Hazard Index	Cumulative Cancer Risk		
				Acenaph-thene (ppm)	Acenaph-thylene (ppm)	Anthracene (ppm)	Benzo(a) anthracene (ppm)	Benzo(a) pyrene (ppm)	Benzo(b) fluoranthene (ppm)	Benzo(g,h,i) perylene (ppm)	Benzo(k) fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd) pyrene (ppm)	1-Methyl-naphthalene (ppm)	2-Methyl-naphthalene (ppm)	Naph-thalene (ppm)	Phenan-threne (ppm)				Pyrene (ppm)	
G-1-1	3.5	U	04/14/15	<0.0201	<0.0198	0.032	<0.0191	<0.0143	<0.019	0.0229	<0.0174	<0.0192	<0.0201	<0.0192	<0.0184	<0.0165	0.033	0.075	0.045	0.0225	<0.0192	0	0.0006	1.0E-08	
G-2-1	3.5	U	04/14/15	<0.0201	<0.0198	<0.0171	<0.0191	0.0304	0.0202	0.163	<0.0174	<0.0192	<0.0201	<0.0192	0.0208	0.035	<0.0205	<0.0199	<0.0203	<0.0198	0.0253	0	0.4592	3.1E-07	
G-2-3	9.0	S	04/14/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	<0.02	<0.0174	<0.0192	<0.0201	<0.0192	<0.0184	<0.0165	<0.0205	<0.0199	<0.0203	<0.0198	<0.0192	0			
G-3-1	3.5	U	04/15/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	<0.02	<0.0174	<0.0192	<0.0201	<0.0192	<0.0184	<0.0165	<0.0205	<0.0199	<0.0203	<0.0198	<0.0192	0			
G-4-1	3.5	U	04/15/15	7.1	1.92	2.11	0.33	0.174	0.33	<0.2	<0.174	0.41	<0.201	0.88	10.7	<0.165	59	76	13.9	24.9	1.52	4	0.7293	9.50E-06	
G-5-1	3.5	U	04/15/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	<0.02	<0.0174	<0.0192	<0.0201	<0.0192	<0.0184	<0.0165	<0.0205	<0.0199	<0.0203	<0.0198	<0.0192	0	0.1590	4.1E-07	
G-6-1	3.5	U	04/15/15	0.048	0.101	0.0223	<0.0191	0.0144	0.0287	<0.2	<0.0174	<0.0192	<0.0201	<0.0192	0.036	<0.0165	0.118	0.142	0.064	0.037	0.061	0	0.0157	1.7E-07	
G-7-1	3.5	U	04/15/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	<0.02	<0.0174	<0.0192	<0.0201	<0.0192	<0.0184	<0.0165	<0.0205	<0.0199	<0.0203	<0.0198	<0.0192	0			
G-9-1	3.5	U	04/15/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	<0.02	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	0.051	0.094	0.048	0.066	0.040	0	0.0017	1.2E-08	
G-10-1	3.5	U	04/15/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	0.0206	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	0.0227	0.032	<0.0203	0.064	<0.0192	0	0.0001	1.3E-09	
G-11-1	3.5	U	04/15/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	<0.02	<0.0174	<0.0192	<0.0201	<0.0192	<0.0184	<0.0165	<0.0205	<0.0199	<0.0203	<0.0198	<0.0192	0			
G-12-1	3.5	U	04/15/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	<0.02	<0.0174	<0.0192	<0.0201	<0.0192	<0.0184	<0.0165	<0.0205	<0.0199	<0.0203	<0.0198	<0.0192	0			
EX-1	3.0	U	07/26/16	<0.0135	0.035	0.055	0.04	0.035	0.054	0.16	<0.0117	0.06	0.0147	0.058	0.0235	0.055	0.198	0.4	0.109	0.197	0.11	0	0.0068	7.0E-07	
EX-2	3.0	U	07/26/16	<0.0135	0.0228	0.023	0.0225	0.0209	0.033	0.063	<0.0117	0.0278	<0.0142	0.0274	<0.0135	0.0308	0.12	0.153	0.079	0.08	0.048	0	0.0155	4.9E-07	
EX-3	3.0	U	07/26/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126	0			
EX-4	3.0	U	07/26/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126	0			
EX-5	3.0	U	07/26/16	<0.0135	<0.012	0.014	0.0131	<0.0113	<0.013	<0.0114	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	0.166	0.238	0.11	0.103	0.0188	0	0.0018	4.1E-08	
EX-6	3.0	U	07/26/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	0.098	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126	0	0.0003		
EX-7	3.0	U	07/26/16	<0.0135	<0.012	0.069	0.0148	<0.0113	<0.013	0.098	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	0.037	0.0283	<0.0122	0.018	<0.0126	0	0.0001	1.5E-08	
EX-8	3.0	U	07/26/16	<0.0135	<0.012	0.0204	<0.0116	<0.0113	<0.013	0.098	<0.0117	<0.0138	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126	0			
Groundwater RCL				---	---	197	---	0.47	0.4793	---	---	0.145	---	88.8	14.8	---	---	0.6582	---	54.5					
Non-Industrial Direct Contact RCL				3590	---	17900	1.140	0.1150	1.150	---	11.50	115	0.1150	2390	2390	1.150	17.6	239	5.52	---	1790		1.00E+00	1.00E-05	
Industrial Direct Contact RCL				(45200)	---	(100000)	(20.8)	(2.11)	(21.1)	---	(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)	---	(22600)				
Soil Saturation Concentration (C-sat)*				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
Bold & Parentheses = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
Italics = Industrial Direct Contact RCL
 NS = Not Sampled
 (ppm) = parts per million
 PAH = Polynuclear Aromatic Hydrocarbons
 PID = Photoionization Detector
 VOC's = Volatile Organic Compounds
 NM = Not Measured
 ND = No Detects
 U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)
 S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.2. Soil Analytical Table
Home Oil Bulk Tanks Winnebago Ave. - BRF BRRTS # 02-27-000428

Sampling Conducted on April 14, 2015

VOC's		Bold = Groundwater r RCL	<u>Underline & Bold = Non- Industrial Direct Contact RCL</u>	(Parenthesis & Bold) = Industrial Direct Contact RCL	Asteric * & Bold =Soil Saturation (C-sat) RCL
Sample ID#	G-2-3				
Sample Depth/ft.	9				
Solids Percent	86.9	==	==	==	==
Lead/ppm	3.13	27	<u>400</u>	(800)	==
Benzene/ppm	< 0.016	0.00512	<u>1.6</u>	(7.07)	1820*
Bromobenzene/ppm	< 0.039	==	<u>342</u>	(679)	==
Bromodichloromethane/ppm	< 0.015	0.000326	<u>0.418</u>	(1.83)	==
Bromoform/ppm	< 0.023	0.00233	<u>25.4</u>	(113)	==
tert-Butylbenzene/ppm	< 0.035	==	<u>183</u>	(183)	183*
sec-Butylbenzene/ppm	< 0.036	==	<u>145</u>	(145)	145*
n-Butylbenzene/ppm	0.159 "J"	==	<u>108</u>	(108)	108*
Carbon Tetrachloride/ppm	< 0.021	0.00388	<u>0.916</u>	(4.03)	==
Chlorobenzene/ppm	< 0.039	==	<u>370</u>	(761)	761*
Chloroethane/ppm	< 0.045	0.227	==	==	==
Chloroform/ppm	< 0.026	0.0033	<u>0.454</u>	(1.98)	==
Chloromethane/ppm	< 0.25	0.0155	<u>159</u>	(669)	==
2-Chlorotoluene/ppm	< 0.029	==	==	==	==
4-Chlorotoluene/ppm	< 0.032	==	==	==	==
1,2-Dibromo-3-chloropropane/ppm	< 0.078	0.000173	<u>0.008</u>	(0.092)	==
Dibromochloromethane/ppm	< 0.031	0.032	<u>8.28</u>	(38.9)	==
1,4-Dichlorobenzene/ppm	< 0.03	0.144	<u>3.74</u>	(16.4)	==
1,3-Dichlorobenzene/ppm	< 0.03	1.1528	<u>297</u>	(193)	297*
1,2-Dichlorobenzene/ppm	< 0.039	1.168	<u>376</u>	(376)	376*
Dichlorodifluoromethane/ppm	< 0.043	3.0863	<u>126</u>	(530)	==
1,2-Dichloroethane/ppm	< 0.03	0.00284	<u>0.652</u>	(2.87)	540*
1,1-Dichloroethane/ppm	< 0.025	0.4834	<u>5.06</u>	(22.2)	==
1,1-Dichloroethene/ppm	< 0.029	0.00502	<u>320</u>	(1190)	1190*
cis-1,2-Dichloroethene/ppm	< 0.021	0.0412	<u>156</u>	(2340)	==
trans-1,2-Dichloroethene/ppm	< 0.024	0.626	<u>1560</u>	(1850)	==
1,2-Dichloropropane/ppm	< 0.025	0.00332	<u>0.406</u>	(1.78)	==
2,2-Dichloropropane/ppm	< 0.1	==	<u>527</u>	(527)	527*
1,3-Dichloropropane/ppm	< 0.031	==	<u>1490</u>	(1490)	1490*
Di-isopropyl ether/ppm	< 0.012	==	<u>2260</u>	(2260)	2260*
EDB (1,2-Dibromoethane)/ppm	< 0.035	0.0000282	<u>0.05</u>	(0.221)	==
Ethylbenzene/ppm	< 0.027	1.57	<u>8.02</u>	(35.4)	480*
Hexachlorobutadiene/ppm	< 0.11	==	<u>1.63</u>	(7.19)	==
Isopropylbenzene/ppm	< 0.037	==	==	==	==
p-Isopropyltoluene/ppm	< 0.056	==	<u>162</u>	(162)	162*
Methylene chloride/ppm	< 0.22	0.00256	<u>61.8</u>	(1150)	==
Methyl tert-butyl ether (MTBE)/ppm	< 0.025	0.027	<u>63.8</u>	(282)	8870*
Naphthalene/ppm	< 0.087	0.6582	<u>5.52</u>	(24.1)	==
n-Propylbenzene/ppm	< 0.035	==	==	==	==
1,1,2,2-Tetrachloroethane/ppm	< 0.013	0.000156	<u>0.81</u>	(3.6)	==
1,1,1,2-Tetrachloroethane/ppm	< 0.029	0.0534	<u>2.78</u>	(12.3)	==
Tetrachloroethene (PCE)/ppm	< 0.054	0.00454	<u>33</u>	(145)	==
Toluene/ppm	< 0.031	1.11	<u>818</u>	(818)	818*
1,2,4-Trichlorobenzene/ppm	< 0.085	0.408	<u>24</u>	(113)	==
1,2,3-Trichlorobenzene/ppm	< 0.12	==	<u>62.6</u>	(934)	==
1,1,1-Trichloroethane/ppm	< 0.04	0.1402	==	==	==
1,1,2-Trichloroethane/ppm	< 0.033	0.00324	<u>1.59</u>	(7.01)	==
Trichloroethene (TCE)/ppm	< 0.042	0.00358	<u>1.3</u>	(8.41)	==
Trichlorofluoromethane/ppm	< 0.06	2.2387	<u>1230</u>	(1230)	1230*
1,2,4-Trimethylbenzene/ppm	0.302	1.38	<u>219</u>	(219)	219*
1,3,5-Trimethylbenzene/ppm	0.12 "J"	==	<u>182</u>	(182)	182*
Vinyl Chloride/ppm	< 0.01	0.000138	<u>0.07</u>	(2.08)	==
m&p-Xylene/ppm	< 0.07	3.96	<u>260</u>	(260)	258*
o-Xylene/ppm	< 0.029	==	==	==	==

NS = not sampled, NM = Not Measured

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

== No Exceedences

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

A.3. Residual Soil Contamination Table
Home Oil Bulk Tanks Winnebago Ave. - BRF BRRTS # 02-27-000428

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exeedance Count	Hazard Index	Cumulative Cancer Risk
B-8-8	8.0	S	12/13/93	30-450	NS	NS	400	<0.040	1.5	<0.04	NS	<0.040	1.6	20	3.5	NS			
A-4	6.0	U	11/06/05	168.9	NS	7900	1200	<0.730	4.1	<0.920	NS	<0.670	7.6	12	4.8	NS			
G-1-3	9.0	S	04/14/15	100	NS	NS	NS	<1.25	<1.25	<1.25	22.3	<1.25	8.0	4.5	7.63	NS			
G-3-3	9.0	S	04/15/15	65	NS	NS	NS	<1.25	<1.25	<1.25	13.6	<1.25	3.9	1.79	2.29-4.79	NS			
G-4-2	8.0	S	04/15/15	95	NS	NS	NS	<1.25	<1.25	<1.25	11.2	<1.25	8.8	4.9	9.9	NS			
G-5-1	3.5	U	04/15/15	5	57.1	NS	NS	0.54	0.61	<0.025	<0.0203	3.4	1.26	0.43	4.67	NS	0	0.1590	4.1E-07
G-5-2	8.0	S	04/15/15	20	NS	NS	NS	<0.025	<0.025	<0.025	2.85	<0.025	0.122	0.14	<0.075	NS			
G-6-1	3.5	U	04/15/15	5	37.2	NS	NS	<1.25	<1.25	<1.25	0.064	<1.25	2.84	2.11	<3.75	NS	0	0.0157	1.7E-07
G-6-2	8.0	S	04/15/15	45	NS	NS	NS	<0.05	0.076	<0.05	5.4	0.089	1.16	1.07	0.405	NS			
G-7-1	3.5	U	04/15/15	0	27.5	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-9-1	3.5	U	04/15/15	0	32.8	NS	NS	<0.025	<0.025	<0.025	0.048	0.112	0.053	0.183	0.259	NS	0	0.0017	1.2E-08
G-10-1	3.5	U	04/15/15	0	33.7	NS	NS	<0.025	<0.025	<0.025	<0.0203	0.041	<0.025	<0.025	<0.075	NS	0	0.0001	1.3E-09
G-14-3	9.5	S	04/15/15	10	NS	NS	NS	<0.025	<0.025	<0.025	14.2	<0.025	0.77	0.25	0.135-0.185	NS			
G-15-1	3.5	U	04/15/15	0	NS	NS	NS	NOT SAMPLED								NS	0		
EX-1	3.0	U	07/26/16	NS	NS	NS	NS	0.174	<0.025	<0.025	0.109	0.36	0.052	0.051	0.348	NS	0	0.0068	7.0E-07
EX-2	3.0	U	07/26/16	NS	NS	NS	NS	0.279	0.32	<0.025	0.079	1.32	1.64	0.64	3.18	NS	0	0.0155	4.9E-07
Groundwater RCL					27	-	-	0.00512	1.57	0.027	0.6582	1.11	1.38	3.96	-				
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	258	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(258)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-			

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

Italics = Industrial Direct Contact RCL

NS = Not Sampled

NM = Not Measured

(ppm) = parts per million

ND = No Detects

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

VOC's = Volatile Organic Compounds

Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.3. Residual Soil Contamination Table
(PAH)
Home Oil Bulk Tanks Winnebago Ave. - BRF BRRTS # 02-27-000428

Sample	Depth (feet)	Saturation U/S	Date	DIRECT CONTACT PVOC & PAH COMBINED																		Exceedance Count	Hazard Index	Cumulative Cancer Risk
				Acenaphthene (ppm)	Acenaphthylene (ppm)	Anthracene (ppm)	Benzo(a)anthracene (ppm)	Benzo(a)pyrene (ppm)	Benzo(b)fluoranthene (ppm)	Benzo(g,h,i)perylene (ppm)	Benzo(k)fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h)anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd)pyrene (ppm)	1-Methylnaphthalene (ppm)	2-Methylnaphthalene (ppm)	Naphthalene (ppm)	Phenanthrene (ppm)	Pyrene (ppm)			
G-5-1	3.5	U	04/15/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	<0.02	<0.0174	<0.0192	<0.0201	<0.0192	<0.0184	<0.0165	<0.0205	<0.0199	<0.0203	<0.0198	<0.0192	0	0.1590	4.1E-07
G-6-1	3.5	U	04/15/15	0.048	0.101	0.0223	<0.0191	0.0144	0.0287	<0.2	<0.0174	<0.0192	<0.0201	<0.0192	0.036	<0.0165	0.118	0.142	0.064	0.037	0.061	0	0.0157	1.7E-07
G-7-1	3.5	U	04/15/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	<0.02	<0.0174	<0.0192	<0.0201	<0.0192	<0.0184	<0.0165	<0.0205	<0.0199	<0.0203	<0.0198	<0.0192	0		
G-9-1	3.5	U	04/15/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	<0.02	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	0.051	0.094	0.048	0.066	0.040	0	0.0017	1.2E-08
G-10-1	3.5	U	04/15/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	0.0206	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	0.0227	0.032	<0.0203	0.064	<0.0192	0	0.0001	1.3E-09
EX-1	3.0	U	07/26/16	<0.0135	0.035	0.055	0.04	0.035	0.054	0.16	<0.0117	0.06	0.0147	0.058	0.0235	0.055	0.198	0.4	0.109	0.197	0.11	0	0.0068	7.0E-07
EX-2	3.0	U	07/26/16	<0.0135	0.0228	0.023	0.0225	0.0209	0.033	0.063	<0.0117	0.0278	<0.0142	0.0274	<0.0135	0.0308	0.12	0.153	0.079	0.08	0.048	0	0.0155	4.9E-07
Groundwater RCL				---	---	197	---	0.47	0.4793	---	---	0.145	---	88.8	14.8	---	---	---	0.6582	---	54.5			
Non-Industrial Direct Contact RCL				3590	---	17900	1.140	0.1150	1.150	---	11.50	115	0.1150	2390	2390	1.150	17.6	239	5.52	---	1790		1.00E+00	1.00E-05
Industrial Direct Contact RCL				(45200)	---	(100000)	(20.8)	(2.11)	(21.1)	---	(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)	---	(22600)			
Soil Saturation Concentration (C-sat)*				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

Italics = Industrial Direct Contact RCL

NS = Not Sampled

NM = Not Measured

(ppm) = parts per million

ND = No Detects

PAH = Polynuclear Aromatic Hydrocarbons

PID = Photoionization Detector

VOC's = Volatile Organic Compounds

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.7 Other
 Groundwater Flow Calculations
 Home Oil Bulk Tanks Winnebago Avenue BRRTS #02-27-000428

High

	ft/s	ft/year	cm/s	m/yr
K	3.28E-03	1.04E+05	1.00E-01	31536.00

Low

	ft/s	ft/year	cm/s	m/yr
K	3.28E-05	1.04E+03	1.00E-03	315.36

Date		Hyd Grad (l)
10/20/1998	Federation Coop Bulk Oil Winnebago BRRTS# 02-27-000426	6.10E-03

	K (m/yr)	Average Hyd Grad (l)	Porosity (n)	Flow Velocity (m/yr)
High	31536	6.10E-03	0.3	641
Low	315.36	6.10E-03	0.3	6.41

Attachment B/Maps and Figures

B.1 Location Maps

B.1.a Location Map

B.1.b Detailed Site Map

B.1.c RR Site Map

B.2 Soil Figures

B.2.a Soil Contamination

B.2.b Residual Soil Contamination

B.3 Groundwater Figures

B.3.a Geologic Cross-Section Figure(s)

B.3.b Groundwater Isoconcentration

B.3.c Groundwater Flow Direction – Monitoring wells were not installed as part of this site investigation/remediation. Based on the GIS Registry for the nearby closed Federation Co-op ERP site (BRRTS# 02-27-000426), local shallow horizontal groundwater flow in the immediate area of the subject property is generally toward the northwest and the shallow groundwater horizontal gradient is approximately 6.10×10^{-3} .

B.3.d Monitoring Wells – Monitoring wells were not installed as part of this site investigation/remediation.

B.4 Vapor Maps and Other Media

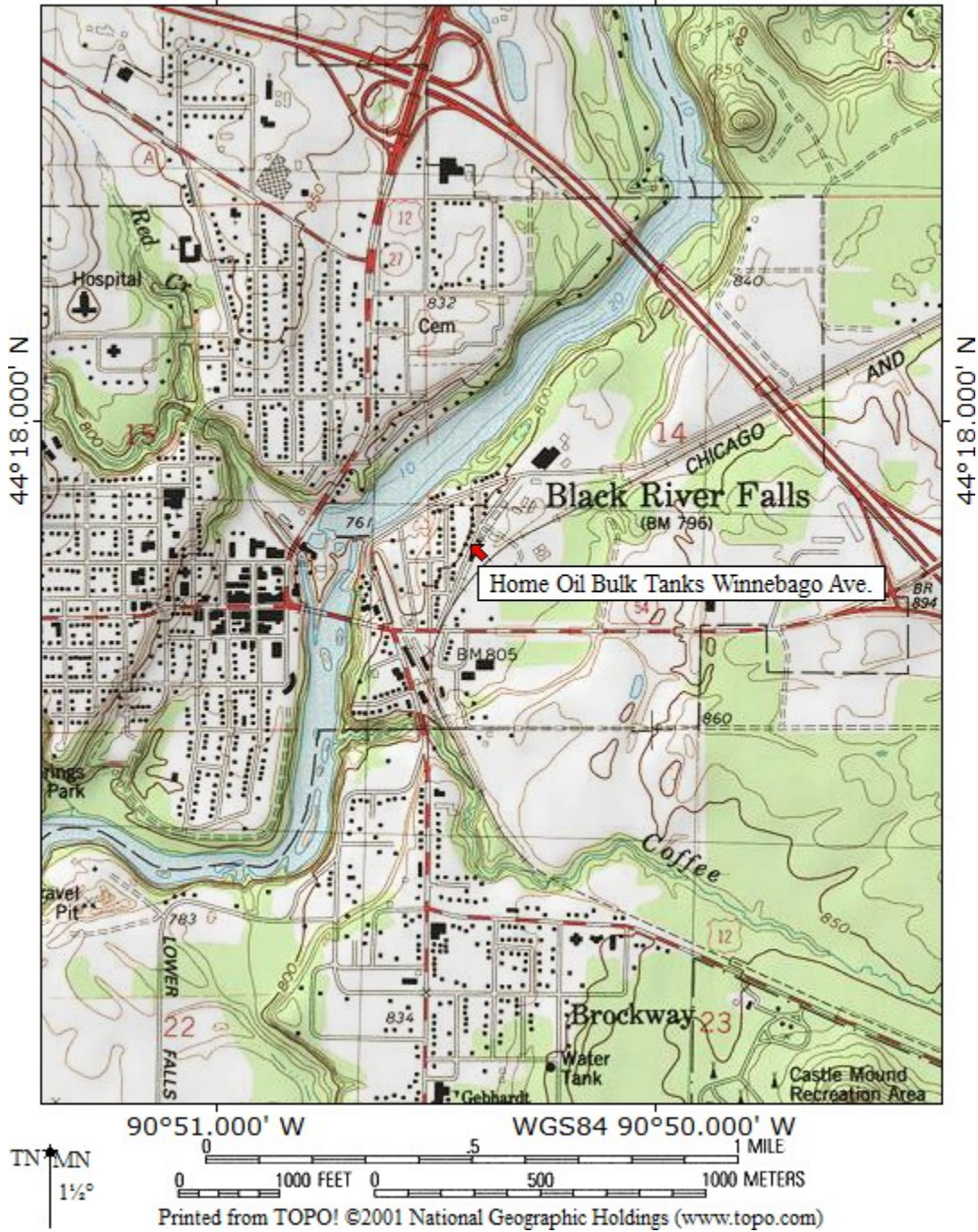
B.4.a Vapor Intrusion Map – No vapor samples were assessed as part of this site investigation.

B.4.b Other media of concern (e.g., sediment or surface water) – No surface waters or sediments were sampled as part of this site investigation.

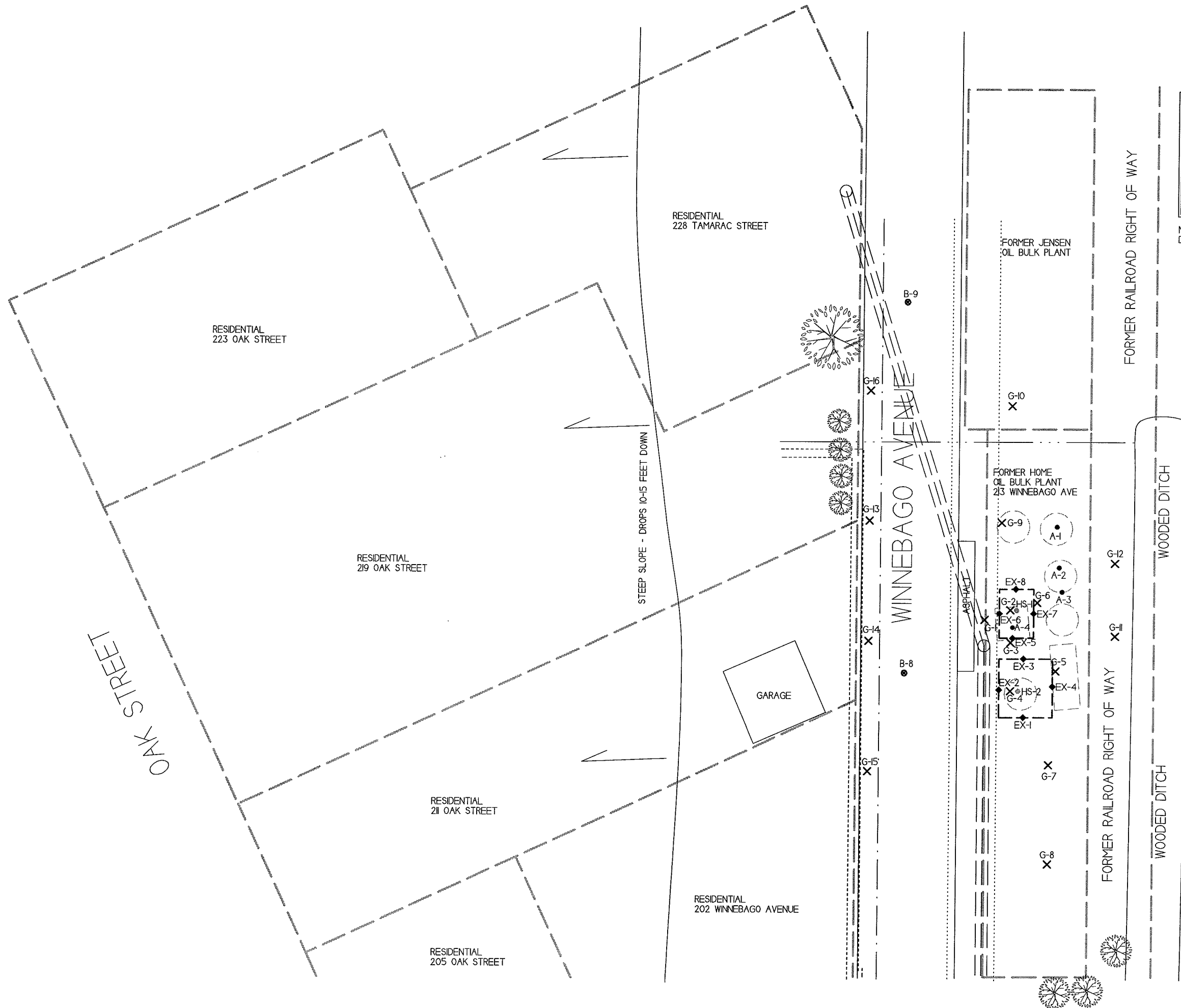
B.4.c Other – No other relevant maps and/or figures are being included.

B.5 Structural Impediment Photos – No structural impediments interfered with the investigation, therefore no photos are being included.

TOPO! map printed on 02/12/15 from "Wisconsin.tpo" and "Untitled.tpg"
90°51.000' W WGS84 90°50.000' W



B.1.a LOCATION MAP CONTOUR INTERVAL 10 FEET HOME OIL BULK TANKS WINNEBAGO AVE. – BLACK RIVER FALLS, WI SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM
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B.I.b. DETAILED SITE MAP	
HOME OIL BULK TANKS WINNEBAGO AVENUE	
 <small>709 Gillette St. Suite 3 La Crosse, WI 54603 Tel: (608) 781-8873 Fax: (608) 781-8853</small>	BLACK RIVER FALLS, WISCONSIN
	DRAWN BY: ED DATE: 2/1/2005
	MODIFIED BY: HH DATE: 1/17/2006

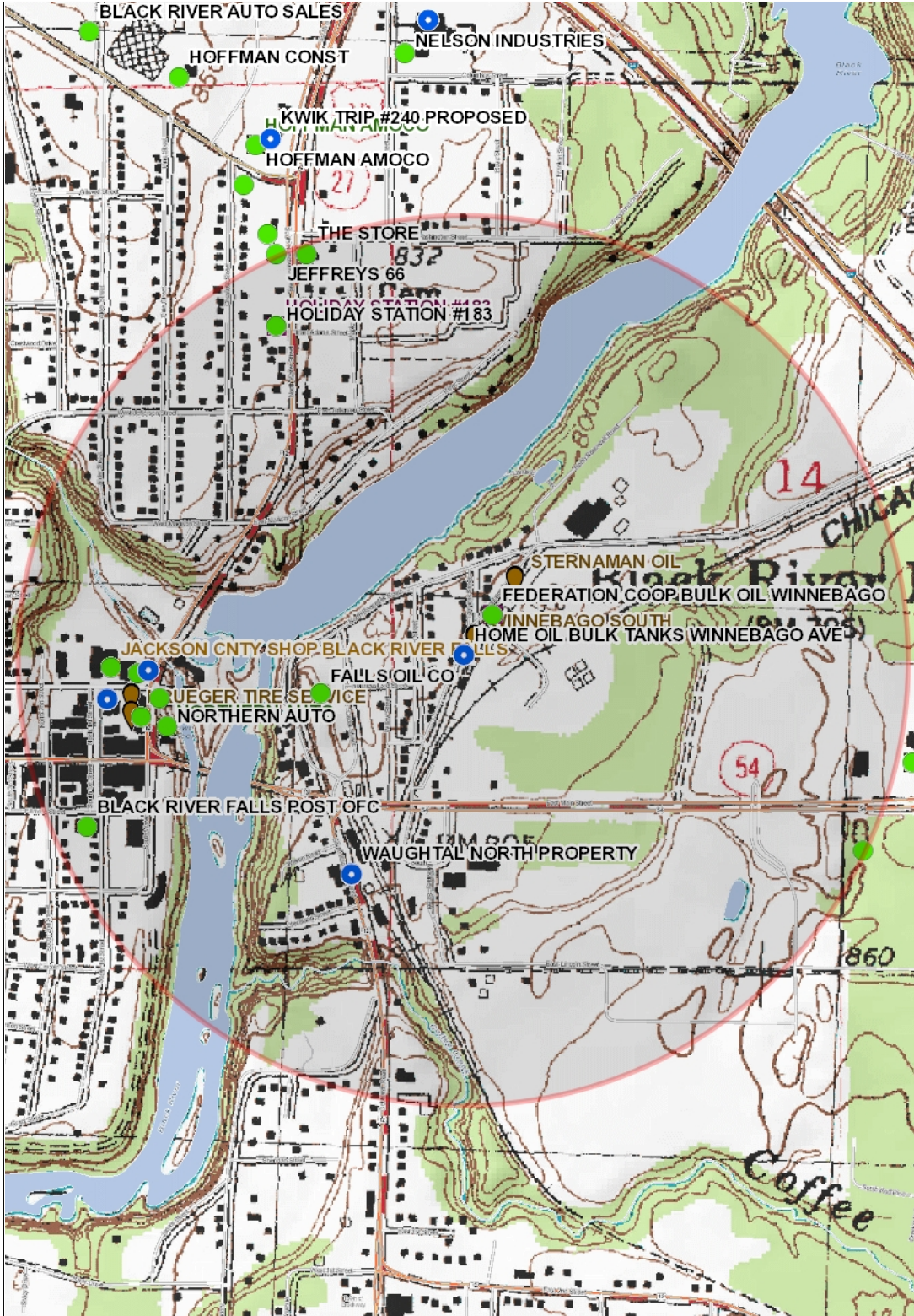
NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

SCALE:
1 INCH = 30 FEET

- - PHASE 2 ESA SOIL BORING LOCATION (CEDAR CORP - 1993)
 - - PHASE 2 ESA SOIL BORING LOCATION (ECCI - 2005)
 - X - GEOPROBE BORING LOCATION
 - - HAND AUGER SOIL SAMPLE LOCATION
 - ◆ - SOIL EXCAVATION SOIL SAMPLE LOCATION
- - REMOVED HORIZONTAL PETROLEUM AST
 - - REMOVED VERTICAL PETROLEUM AST
 - - FORMER FUEL DISPENSER BUILDING
 - - SOIL EXCAVATION (TO 4 FEET BGS)
- PROPERTY LINE _____
- PHONE/FIBER OPTIC LINE - - - - -
- WATER LINE _____
- STORM SEWER LINE _____
- OVERHEAD UTILITY LINES =====



B.1.c. RR Sites Map



Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- Groundwater Contamination
- Soil Contamination
- Groundwater and Soil Contamination
- Dryclean Environmental Response F (DERF)
- Green Space Grant (2004-2009)
- Ready for Reuse
- Site Assessment Grant (2001-2009)
- State Funded Response
- Sustainable Urban Development Zone
- ▼ General Liability Clarification Letters
- ▼ Superfund NPL
- ▼ Voluntary Party Liability Exemption
- Rivers and Streams
- Open Water
- Municipality
- State Boundaries
- County Boundaries
- Major Roads**
- Interstate Highway
- State Highway
- US Highway
- County and Local Roads**
- County HWY
- Local Road
- + Railroads
- Tribal Lands

0.4 0 Distance / 2 0.4 Miles

1: 11,528

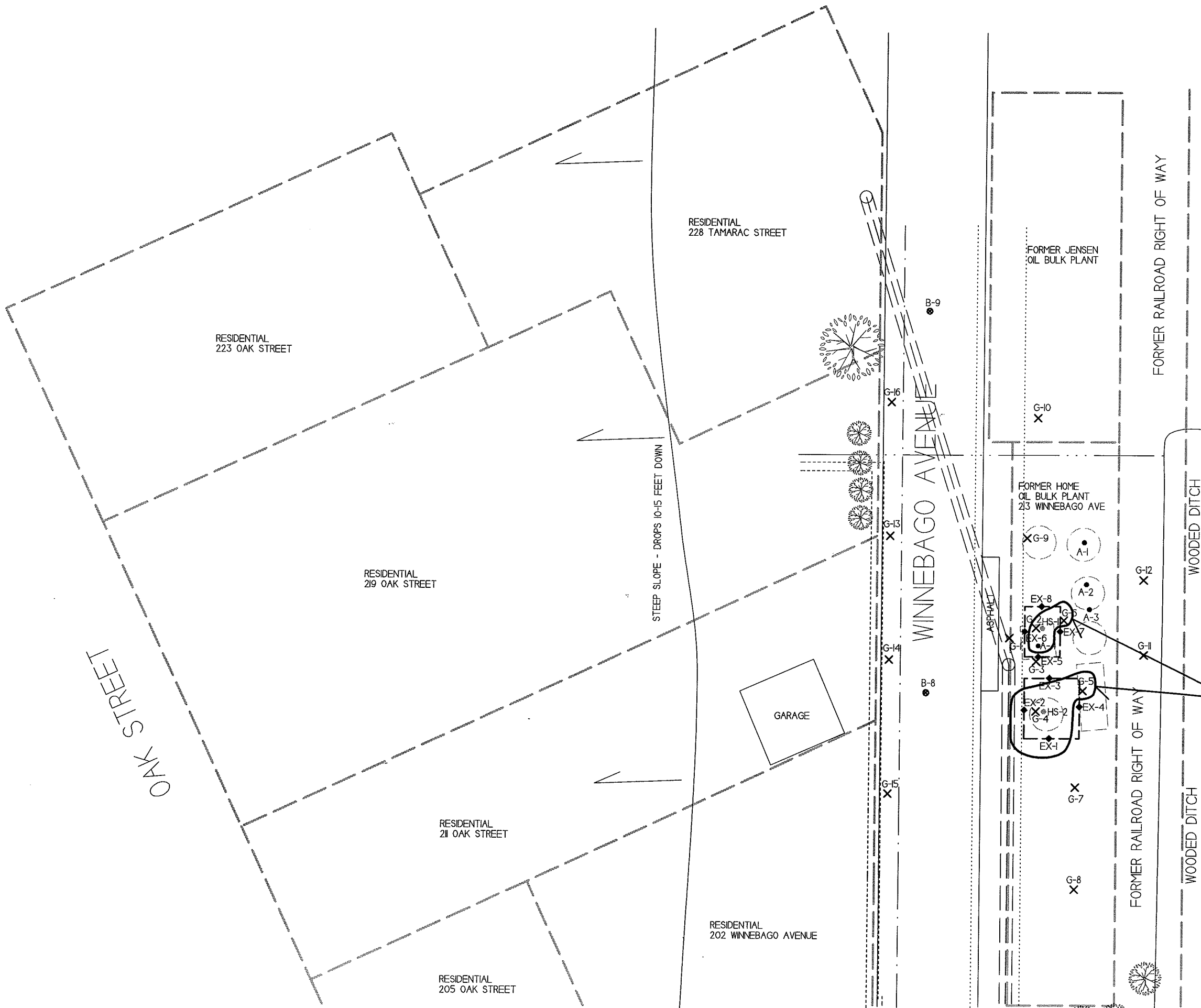


NAD_1983_HARN_Wisconsin_TM

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/org/legal/>

Note: Not all sites are mapped.

Notes



B.2.a. SOIL CONTAMINATION	
HOME OIL BULK TANKS WINNEBAGO AVENUE	
709 Gillette St. Suite 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8883 <i>Excellence through experience</i>	BLACK RIVER FALLS, WISCONSIN
	DRAWN BY: ED DATE: 2/1/2005 MODIFIED BY: H-M DATE: 1/7/2016

NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

SCALE:
1 INCH = 30 FEET

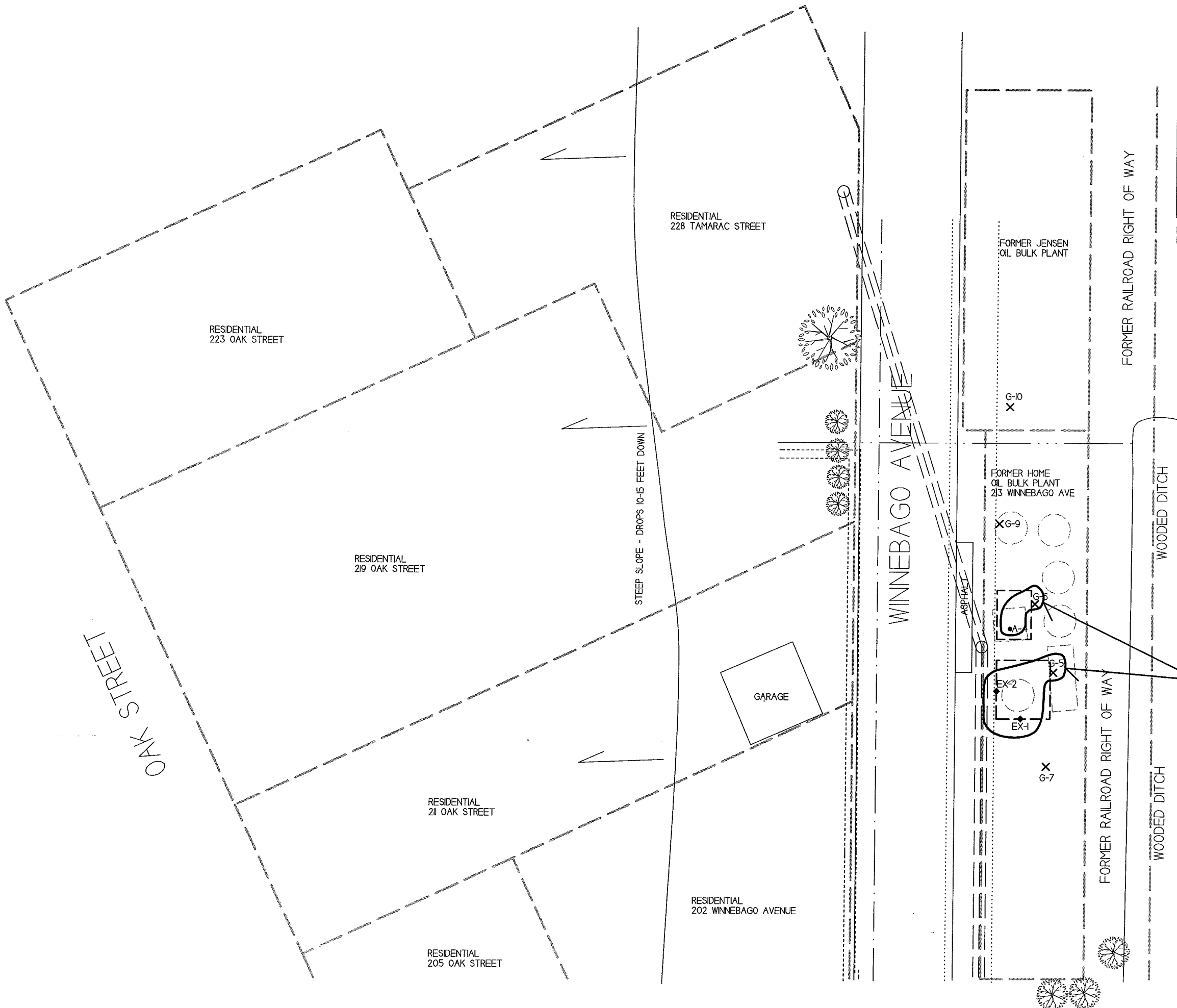
- - PHASE 2 ESA SOIL BORING LOCATION (CEDAR CORP - 1993)
- - PHASE 2 ESA SOIL BORING LOCATION (ECCI - 2005)
- X - GEOPROBE BORING LOCATION
- - HAND AUGER SOIL SAMPLE LOCATION
- ◆ - SOIL EXCAVATION SOIL SAMPLE LOCATION

- REMOVED HORIZONTAL PETROLEUM AST
- REMOVED VERTICAL PETROLEUM AST
- FORMER FUEL DISPENSER BUILDING
- SOIL EXCAVATION (TO 4 FEET BGS)

- PROPERTY LINE
- PHONE/FIBER OPTIC LINE
- WATER LINE
- STORM SEWER LINE
- OVERHEAD UTILITY LINES

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN SOIL EXCEEDING THE NR720 GROUNDWATER RCL's

NOTE: SOIL SAMPLES G-7-1, G-9-1, AND G-10-1 SHOWED NR720 GROUNDWATER RCL EXCEEDANCES FOR LEAD, BUT SHOWED NO NR720 RCL EXCEEDANCES FOR PVOC OR PAH COMPOUNDS.



B.2.b. RESIDUAL SOIL CONTAMINATION HOME OIL BULK TANKS WINNEBAGO AVENUE	
	BLACK RIVER FALLS, WISCONSIN <small>709 Gillette St. Suite 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8853</small>
<small>Experience through experience</small>	<small>DRAWN BY: ED DATE: 2/1/2015</small> <small>MODIFIED BY: FM DATE: 1/7/2015</small>

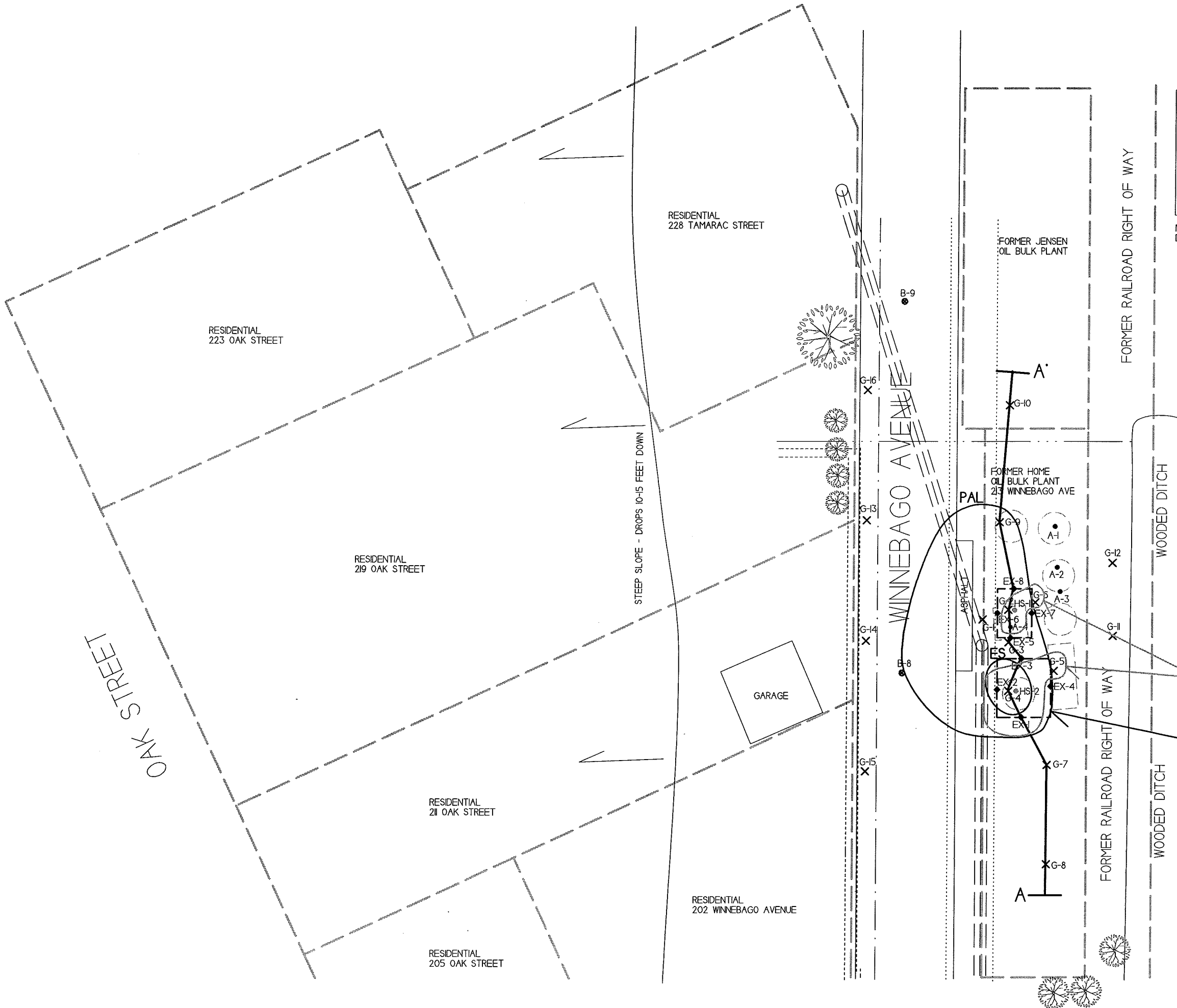
NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

SCALE: 1 INCH = 30 FEET

- X - GEOPROBE BORING LOCATION
 - ◆ - SOIL EXCAVATION SOIL SAMPLE LOCATION
 - REMOVED HORIZONTAL PETROLEUM AST
 - REMOVED VERTICAL PETROLEUM AST
 - FORMER FUEL DISPENSER BUILDING
 - SOIL EXCAVATION (TO 4 FEET BGS)
- PROPERTY LINE _____
- PHONE/FIBER OPTIC LINE - - - - -
- WATER LINE _____
- STORM SEWER LINE _____
- OVERHEAD UTILITY LINES ||| |

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN SOIL EXCEEDING THE NR720 GROUNDWATER RCL's

NOTE: SOIL SAMPLES G-7-I, G-9-I, AND G-10-I SHOWED NR720 GROUNDWATER RCL EXCEEDANCES FOR LEAD, BUT SHOWED NO NR720 RCL EXCEEDANCES FOR PVOC OR PAH COMPOUNDS.



B.3.a. GEOLOGIC CROSS SECTION FIGURE
HOME OIL BULK TANKS WINNEBAGO AVENUE

METCO 709 Gillette St, Suite 3
 La Crosse, WI 54603
 Tel: (608) 781-8879
 Fax: (608) 781-8893

BLACK RIVER FALLS, WISCONSIN
 DRAWN BY: ED DATE: 2/1/2015
 MODIFIED BY: HPI DATE: 1/17/2016

NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

SCALE:
 1 INCH = 30 FEET

- - PHASE 2 ESA SOIL BORING LOCATION (CEDAR CORP - 1993)
- - PHASE 2 ESA SOIL BORING LOCATION (ECCI - 2005)
- X - GEOPROBE BORING LOCATION
- - HAND AUGER SOIL SAMPLE LOCATION
- ◆ - SOIL EXCAVATION SOIL SAMPLE LOCATION

- ▭ - REMOVED HORIZONTAL PETROLEUM AST
 - - REMOVED VERTICAL PETROLEUM AST
 - ▭ - FORMER FUEL DISPENSER BUILDING
 - ▭ - SOIL EXCAVATION (TO 4 FEET BGS)
- PROPERTY LINE _____
- PHONE/FIBER OPTIC LINE - - - - -
- WATER LINE _____
- STORM SEWER LINE _____
- OVERHEAD UTILITY LINES = = = = =

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN SOIL EXCEEDING THE NR720 GROUNDWATER RCL'S

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ENFORCEMENT STANDARD (ES) AND/OR PREVENTIVE ACTION LIMIT (PAL)

NOTE: GROUNDWATER ISOCONCENTRATION MAP IS BASED ON GROUNDWATER ANALYTICAL RESULTS FROM THE APRIL 14, 2015 GEOPROBE PROJECT.

**B.3.a. GEOLOGIC CROSS
-SECTION FIGURE**

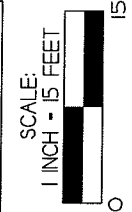
HOME OIL BULK TANKS
WINNEBAGO AVENUE

709 Gillette St., Suite 3
La Crosse, WI 54603
FAX: (608) 791-8803

BLACK RIVER FALLS,
WISCONSIN

DRAWN BY: GD DATE: 5/4/2005
MODIFIED BY: PM DATE: 1/7/2006

METCO
Environmental Services

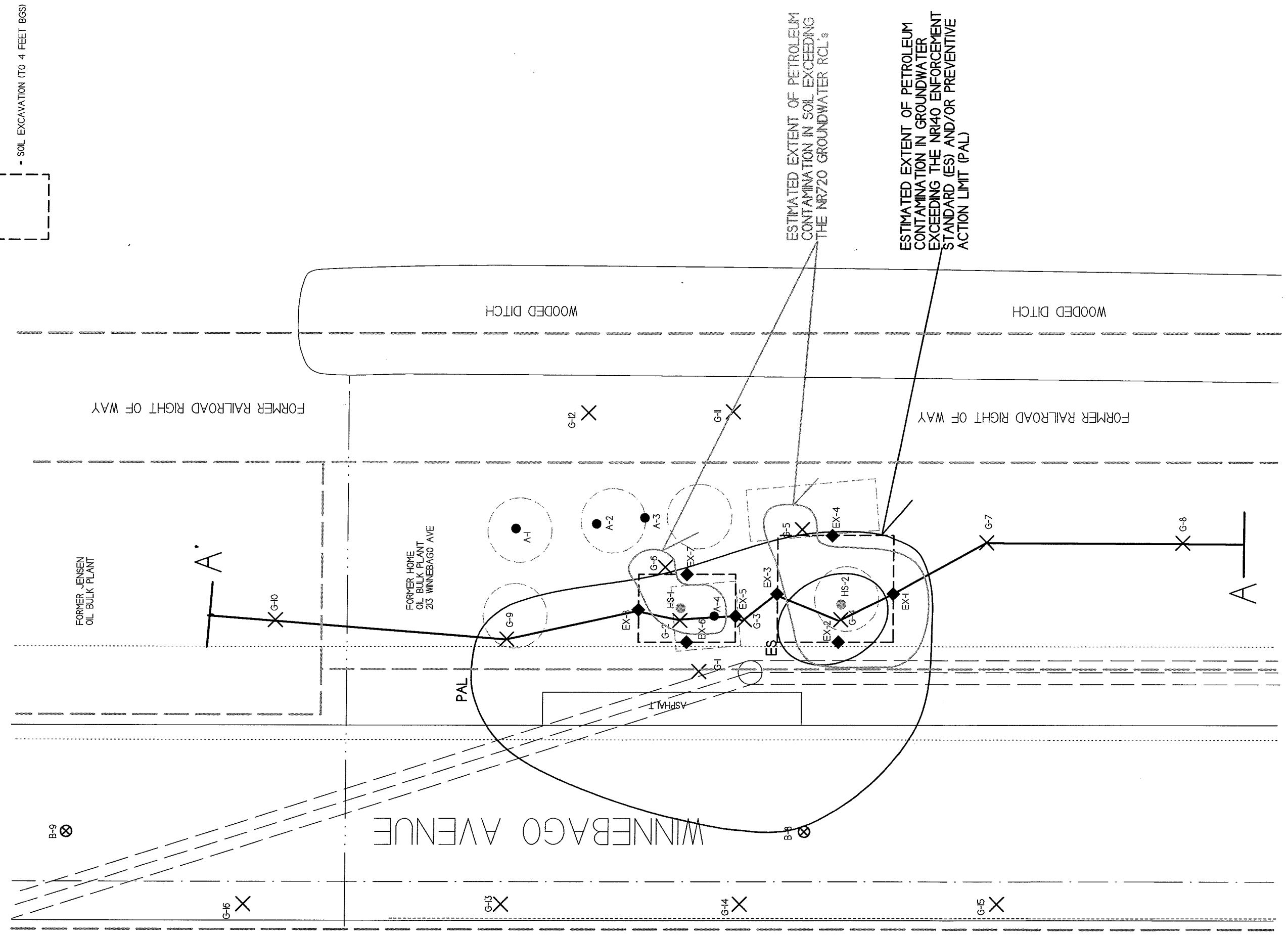


NOTE: INFORMATION BASED ON AVAILABLE
DATA. ACTUAL CONDITIONS MAY DIFFER.

NOTE: GROUNDWATER ISOCONCENTRATION MAP
IS BASED ON GROUNDWATER ANALYTICAL RESULTS
FROM THE APRIL 14, 2005 GEOPROBE PROJECT.

- ⊗ - PHASE 2 ESA SOIL BORING LOCATION (CEDAR CORP - 1993)
- - PHASE 2 ESA SOIL BORING LOCATION (ECCI - 2005)
- ⊗ - GEOPROBE BORING LOCATION
- - HAND AUGER SOIL SAMPLE LOCATION
- ◆ - SOIL EXCAVATION SOIL SAMPLE LOCATION
- — — — — PROPERTY LINE
- — — — — PHONE/FIBER OPTIC LINE
- — — — — WATER LINE
- — — — — STORM SEWER LINE
- — — — — OVERHEAD UTILITY LINES

- - - - - REMOVED HORIZONTAL PETROLEUM AST
- - - - - - REMOVED VERTICAL PETROLEUM AST
- - - - - FORMER FUEL DISPENSER BUILDING
- - - - - SOIL EXCAVATION (TO 4 FEET BGS)



B.3.a. GEOLOGIC CROSS-SECTION FIGURE(S) (A-A')

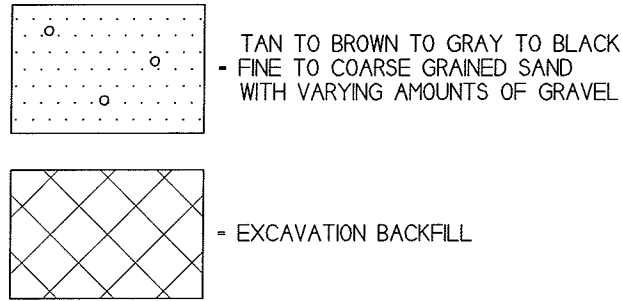
HOME OIL BULK TANK
WINNEBAGO AVENUE

709 Gilette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8883

BLACK RIVER FALLS, WISCONSIN

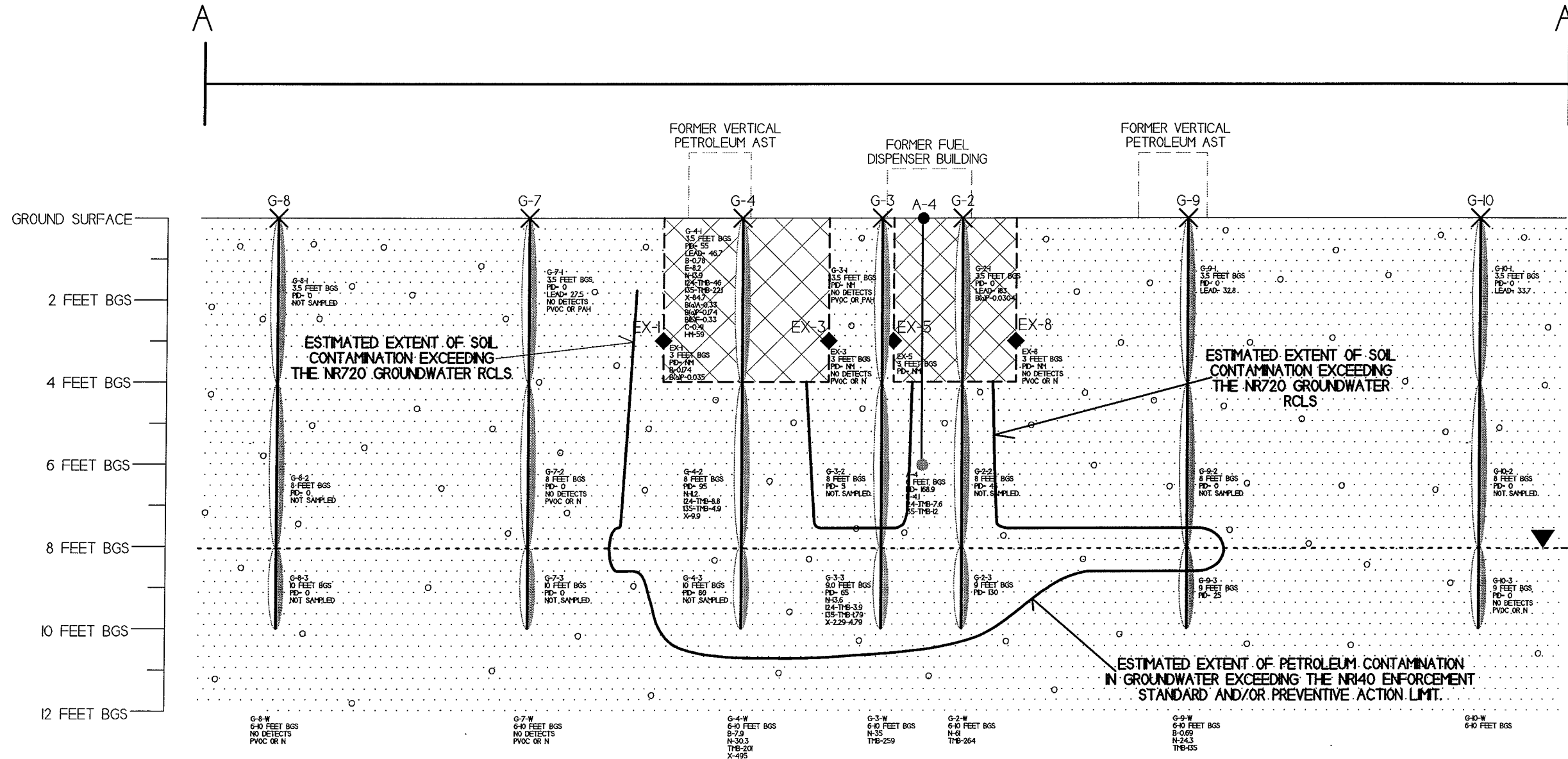
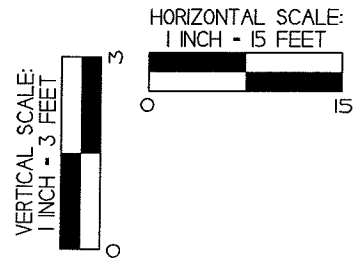
DRAWN BY: HM
DATE: 1/7/2016

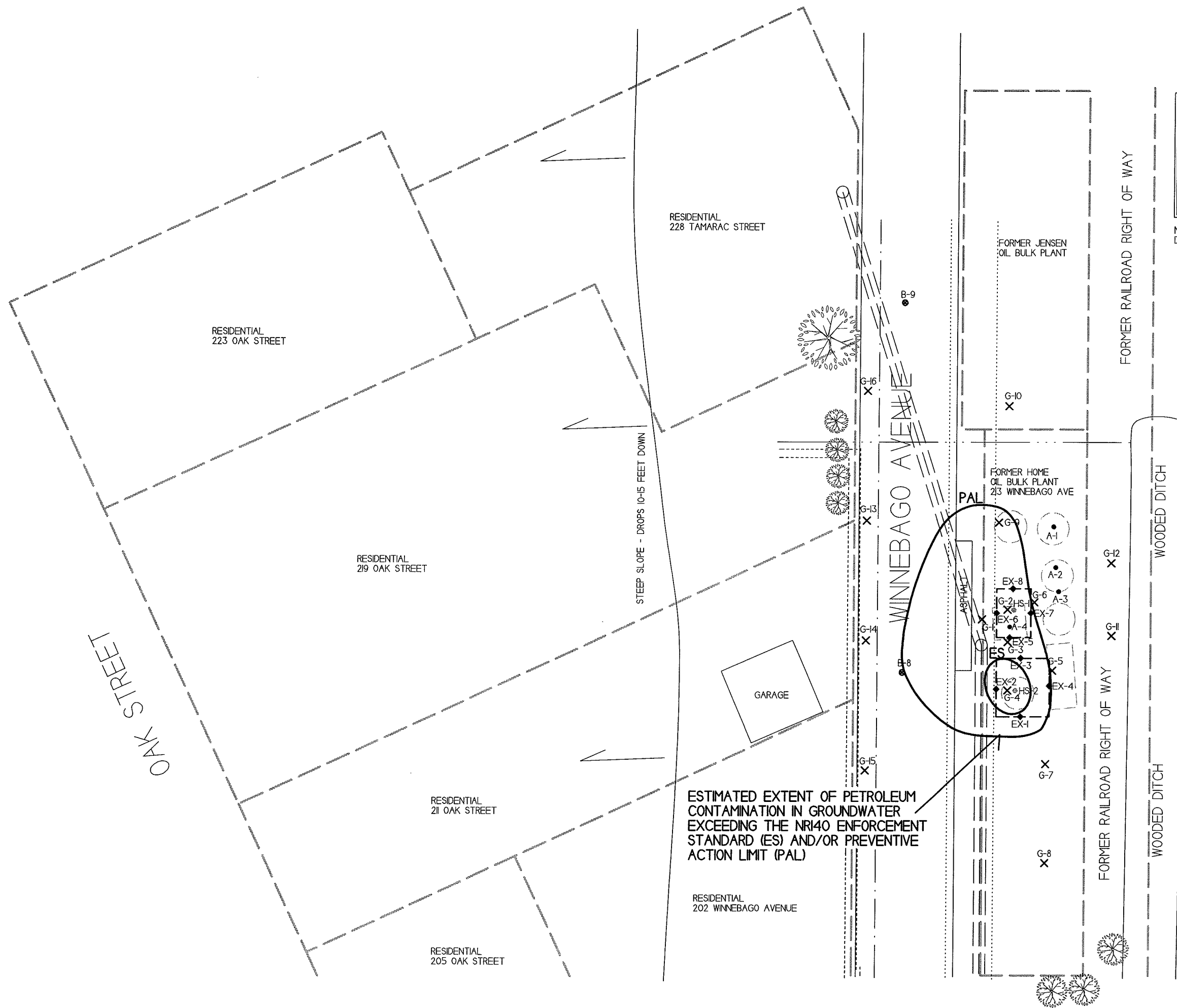
- ✕ = GEOPROBE BORING LOCATION
- = SOIL BORING LOCATION
- = GEOPROBE BORING SAMPLING INTERVAL
- = SOIL BORING SAMPLE LOCATION
- ▼ = WATERTABLE (APPROXIMATE)



- PID-PHOTOIONIZATION DETECTOR
- PVOC-PETROLEUM VOLATILE ORGANIC COMPOUNDS
- PAH-
- B-BENZENE
- E-ETHYLBENZENE
- N-NAPHTHALENE
- T-TOLUENE
- 1,2,4-TMB-1,2,4-TRIMETHYLBENZENE
- 1,3,5-TMB-1,3,5-TRIMETHYLBENZENE
- TMB-TRIMETHYLBENZENE
- X-XYLENE
- B(a)A-BENZO(a)ANTHRACENE
- B(a)P-BENZO(a)PYRENE
- B(b)F-BENZO(b)FLUORANTHENE
- C-CHRYSENE
- M-I-METHYLNAPHTHALENE

- NOTES:
- INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER.
 - SOIL SAMPLE RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).
 - GROUNDWATER SAMPLE RESULTS ARE PRESENTED IN PARTS PER BILLION (PPB).
 - ELEVATION DATA IS PRESENTED IN FEET BELOW GROUND SURFACE (BGS).
 - ONLY SOIL RCL EXCEEDANCES HAVE BEEN DOCUMENTED ON THE MAP. SEE DATA TABLES AND/OR LABORATORY REPORTS FOR ALL RESULTS.
 - SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE:
DRILLING PROJECT - (11/6/2005)
GEOPROBE PROJECT - (4/14-15/2015)
EXCAVATION PROJECT - (7/26/2016)





B.3.b. GROUNDWATER ISOCONCENTRATION
HOME OIL BULK TANKS
WINNEBAGO AVENUE

METCO
 709 Collette St, Suite 3
 La Crosse, WI 54603
 Tel: (608) 781-8879
 Fax: (608) 781-8893

BLACK RIVER FALLS, WISCONSIN
 DRAWN BY: ED DATE: 2/1/2015
 MODIFIED BY: MM DATE: 1/7/2016

NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

SCALE: 1 INCH = 30 FEET

0 15 30

- - PHASE 2 ESA SOIL BORING LOCATION (CEDAR CORP - 1993)
 - - PHASE 2 ESA SOIL BORING LOCATION (ECCI - 2005)
 - X - GEOPROBE BORING LOCATION
 - ⊕ - HAND AUGER SOIL SAMPLE LOCATION
 - ◆ - SOIL EXCAVATION SOIL SAMPLE LOCATION
- ▭ - REMOVED HORIZONTAL PETROLEUM AST
 - - REMOVED VERTICAL PETROLEUM AST
 - ▭ - FORMER FUEL DISPENSER BUILDING
 - ▭ - SOIL EXCAVATION (TO 4 FEET BGS)
- PROPERTY LINE _____
- PHONE/FIBER OPTIC LINE - - - - -
- WATER LINE _____
- STORM SEWER LINE _____
- OVERHEAD UTILITY LINES =====

NOTE: GROUNDWATER ISOCONCENTRATION MAP IS BASED ON GROUNDWATER ANALYTICAL RESULTS FROM THE APRIL 14, 2015 GEOPROBE PROJECT.

Attachment C/Documentation of Remedial Action

- C.1 Site Investigation documentation – All site investigation activities are documented in the Site Investigation Report, which is being submitted concurrently with this Case Closure Request.
- C.2 Investigative waste – On July 26, 2016, METCO supervised the excavation of soils from two locations on the subject property, during which 109.94 tons of petroleum contaminated soil was excavated and properly disposed of.
- C.3 Provide a description of the methodology used along with all supporting documentation if the Residual Contaminant Levels are different than those contained in the Department's RCL Spreadsheet available at: <http://dnr.wi.gov/topic/brownfields.Professionals.html> - Residual Contaminant Levels (RCLs) were established in accordance with NR720.10 and NR720.12. Soil RCLs for the protection of the groundwater pathway and for non-industrial direct contact were taken from the RR programs RCL spreadsheet.
- C.4 Construction documentation – No constructed remedial actions and/or interim actions specified in s.NR724.01(1) occurred at this site.
- C.5 Decommissioning of Remedial Systems – No remedial systems were installed as part of this site investigation.
- C.6 Other – Not applicable

C.2 Investigative Waste

DKS CONSTRUCTION SERVICES, INC
 2520 WILSON STREET
 MENOMONIE, WI 54751

Invoice

Date	Invoice #
7/27/2016	2116

Bill To

METCO
 @CITY OF BLACK RIVER FALLS
 709 GILLETTE ST
 LACROSSE, WI 54603

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
	Fomer Home Oil Bulk Plant		
1	Mobilization		
109.94	Excavate - tons	1,700.00	1,700.00
109.94	Haul - Tons	9.00	989.46
109.94	Soil Disposal - Tons	22.00	2,418.68
87.94	Fill	27.00	2,968.38
22	Gravel	14.00	1,231.16
	work completed on 7-26-16	23.00	506.00
	WI & Dunn Sales Tax	5.50%	0.00
		Total	\$9,813.68

Phone # 715-235-2600

C.2 Investigative Waste

All Ticket Types
 History and Waiting
 * - Confirmed Qty Applied to Billing
 001296- DKS CONSTRUCTION
 Detail Customer Activity Report
 July 26, 2016 to July 28, 2016
 Specific Customer(s) : 1296
 Black River Falls
 Former Home Oil Bulk Plant
 All Facilities

Ticket Date	Facility & Ticket Number	Contract	Truck #	Container	Material	Material Rate	Billing Quantity	Material Total	Tax Total	Total
07/26/2016	I G3 686190	BIO SOIL/16053	DKS40		33A@/EX C-Soil/Pet-Ldd G		20.71 TN			
07/26/2016	I G3 686190	BIO SOIL/16053	DKS40		Profile Fee EX					
07/26/2016	I G3 686195	BIO SOIL/16053	MODERN666		33A@/EX C-Soil/Pet-Ldd G		23.26 TN			
07/26/2016	I G3 686204	BIO SOIL/16053	DKS44		33A@/EX C-Soil/Pet-Ldd G		20.62 TN			
07/26/2016	I G3 686235	BIO SOIL/16053	DKS40		33A@/EX C-Soil/Pet-Ldd G		22.01 TN			
07/26/2016	I G3 686246	BIO SOIL/16053	MODERN666		33A@/EX C-Soil/Pet-Ldd G		23.34 TN			

Tickets Reported: 5 Items Reported:

Material Summary

EN - 33A@/EX C-Soil/Pet-Ldd Gas
 PS - Profile Fee EX

Weight	Volume	Count	Billing Quantity	Material Total	Tax Total
Inbound 109.94	Inbound 0.00	Inbound 0.00	109.94 TN		
Outbound 0.00	Outbound 0.00	Outbound 0.00			
Total 109.94	Total 0.00	Total 0.00	Total 109.94 TN		

Tickets Reported: 5 Items Reported:

Material Summary

33A@/EX C-Soil/Pet-L
 Profile Fee EX

Weight	Volume	Count	Billing Quantity	Material Total	Tax Total
Inbound 109.94	Inbound 0.00	Inbound 0.00	109.94 TN		
Outbound 0.00	Outbound 0.00	Outbound 0.00			
Total 109.94	Total 0.00	Total 0.00	Total 109.94 TN		

Cash Totals: \$0.00

C.2 Investigative Waste

8001 OLSON DRIVE
EAU CLAIRE, WI 54703
7158300284

001296
DKS CONSTRUCTION
BIO SOIL/16053
2520 WILSON STREET
MENOMONIE, WI 54751

BRF
FMR Home Oil

INVOICE
INBOUND

SITE	CELL	TICKET #	OPERATOR	
G3		686190	RLBECKER	
TRUCK		CONTAINER	LICENSE	
DKS40				
REFERENCE			IN	OUT
150226			7/26/16 9:01 am	7/26/16 9:01 am

CONTRACT: BIO SOIL/16053		GROSS 70,920.00LBS Scale In					
BOL:		TARE 29,500.00LBS Tare Out					
		NET 41,420.00 LBS					
QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
20.71	TN	33A@/EX C-Soil/Pet-Ldd Gas	WI	100.00			
1.00	EA	Profile Fee EX	WI	100.00			

Total
Paid
Change
Check#
Recpt #

I hereby certify that this load does not contain any unauthorized hazardous waste.

SIGNATURE: _____

CUSTOMER COPY

7 MILE CREEK LANDFILL, LLC
8001 OLSON DRIVE
EAU CLAIRE, WI 54703
7158300284

001296
DKS CONSTRUCTION
BIO SOIL/16053
2520 WILSON STREET
MENOMONIE, WI 54751

BRF
FMR Home Oil

INVOICE
INBOUND

SITE	CELL	TICKET #	OPERATOR	
G3		686195	RLBECKER	
TRUCK		CONTAINER	LICENSE	
MODERN666				
REFERENCE			IN	OUT
150224			7/26/16 9:25 am	7/26/16 9:25 am

CONTRACT: BIO SOIL/16053		GROSS 74,820.00LBS Scale In					
BOL:		TARE 28,300.00LBS Tare Out					
		NET 46,520.00 LBS					
QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
23.26	TN	33A@/EX C-Soil/Pet-Ldd Gas	WI	100.00			

Total
Paid
Change
Check#
Recpt #

I hereby certify that this load does not contain any unauthorized hazardous waste.

SIGNATURE: _____

CUSTOMER COPY

C.2 Investigative Waste

8001 OLSON DRIVE
EAU CLAIRE, WI 54703
7158300284

001296
DKS CONSTRUCTION
BIO SOIL/16053
2520 WILSON STREET
MENOMONIE, WI 54751

BRF
Former Home Oil

INVOICE
INBOUND

SITE	CELL	TICKET #	OPERATOR	
G3		686204	RLBECKER	
TRUCK		CONTAINER	LICENSE	
DKS44				
REFERENCE			IN	OUT
150220			7/26/16 9:45 am	7/26/16 9:45 am

CONTRACT: BIO SOIL/16053			GROSS	71,300.00LBS	Scale In		
BOL:			TARE	30,060.00LBS	Tare Out		
			NET	41,240.00LBS			
QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
20.62	TN	33A@/EX C-Soil/Pet-Ldd Gas	WI	100.00			

I hereby certify that this load does not contain any unauthorized hazardous waste.

Total
Paid
Change
Check#
Recpt #

SIGNATURE: _____

CUSTOMER COPY

7 MILE CREEK LANDFILL, LLC
8001 OLSON DRIVE
EAU CLAIRE, WI 54703
7158300284

001296
DKS CONSTRUCTION
BIO SOIL/16053
2520 WILSON STREET
MENOMONIE, WI 54751

BRF
Former Home Oil

INVOICE
INBOUND

SITE	CELL	TICKET #	OPERATOR	
G3		686235	RLBECKER	
TRUCK		CONTAINER	LICENSE	
DKS40				
REFERENCE			IN	OUT
150227			7/26/16 11:26 am	7/26/16 11:26 am

CONTRACT: BIO SOIL/16053			GROSS	73,520.00LBS	Scale In		
BOL:			TARE	29,500.00LBS	Tare Out		
			NET	44,020.00LBS			
QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
22.01	TN	33A@/EX C-Soil/Pet-Ldd Gas	WI	100.00			

I hereby certify that this load does not contain any unauthorized hazardous waste.

Total
Paid
Change
Check#
Recpt #

SIGNATURE: _____

CUSTOMER COPY

C.2 Investigative Waste

8001 OLSON DRIVE
EAU CLAIRE, WI 54703
7158300284

001296
DKS CONSTRUCTION
BIO SOIL/16053
2520 WILSON STREET
MENOMONIE, WI 54751

BRF
Former Home Oil

INVOICE
INBOUND

SITE	CELL	TICKET #	OPERATOR	
G3		686246	MATETZLAFF	
TRUCK		CONTAINER	LICENSE	
MODERN666				
REFERENCE			IN	OUT
150225			7/26/16 12:15 pm	7/26/16 12:15 pm

CONTRACT: BIO SOIL/16053		GROSS 74,980.00LBS Scale In					
BOL:		TARE 28,300.00LBS Tare Out					
		NET 46,680.00 LBS					
QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
23.34	TN	33A@/EX C-Soil/Pet-Ltd Gas	WI	100.00			

I hereby certify that this load does not contain any unauthorized hazardous waste.

Total
Paid
Change
Check#
Recpt #

SIGNATURE: _____

CUSTOMER COPY

Attachment D/Maintenance Plan(s)

- D.1 Descriptions of maintenance action(s) required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required – No maintenance plan is included as part of this case closure request.
- D.2 Location map(s) which show(s) – No maintenance plan is included as part of this case closure request.
- D.3 Photographs – No maintenance plan is included as part of this case closure request.
- D.4 Inspection log – No maintenance plan is included as part of this case closure request.

Attachment E/Monitoring Well Information

Per discussions with the WDNR, monitoring wells were not installed as part of this site investigation/remediation.

Attachment F/Source Legal Documents

F.1 Deeds – Source Property

F.2 Certified Survey Map

F.3 Verification of Zoning

F.4 Signed Statement

F.I. Deeds-Source Property

VOL 458 PAGE 788

326333

State Bar of Wisconsin Form 3-2003 QUIT CLAIM DEED

Document Number

Document Name

THIS DEED, made between Jackson County ("Grantor," whether one or more), and City of Black River Falls ("Grantee," whether one or more).

RECEIVED FOR RECORD AT 1:00 P M Vol 458 Page 788

NOV 05 2004

SHARI MARG REGISTER OF DEEDS JACKSON COUNTY, WI

11.00

Recording Area

Name and Return Address

Kyle Deno 307 Main Street Black River Falls, WI 54615

206-2216.0005

Parcel Identification Number (PIN)

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

Grantor quit claims to Grantee the following described real estate, together with the rents, profits, fixtures and other appurtenant interests, in Jackson County, State of Wisconsin ("Property") (if more space is needed, please attach addendum):

That part of the One Hundred foot right of way for the "Furnace Spur" of the Chicago, St. Paul, Minneapolis and Omaha Railway Company (now the Chicago and North Western Transportation Company) in Fractional Lot One (also known as part of the Northwest Quarter of the South West Quarter) of S14 T21N R4W of the Fourth Principal Meridian, bonded and described as follows: Commencing at the intersection of the Easterly extension of the North line of Third Street and the Center line of Chicago and North Western Transportation Company (Formerly Chicago, St. Paul, Minneapolis & Omaha Railway Company) Spur track ICC No. 7, also known as Furnace Spur as located in 1975; thence Northeasterly along said spur track center line a distance of One Hundred Seventy-three feet; thence Northwesterly radial to the last described course a distance of Nine feet to the point of beginning of the parcel of land herein described; thence continuing Northwesterly along the last described course a distance of Forty-one feet, more or less, to a point on the Northwesterly line of said One Hundred foot right of way, being also a point of the Southeasterly line of Railroad Avenue, now known as Winnebago Avenue; thence Southwesterly along said Southeasterly line of Railroad Avenue, now known as Winnebago Avenue, a distance of One Hundred Seventy feet; thence Southeasterly radial to the last described course a distance of Forty-one feet, more or less, to a point distant Nine feet Northwesterly, measured radially, from said spur track center line; thence Northeasterly parallel with said spur track center line to the point of beginning. Subject to the rights of the public in that part of the above-described within Winnebago Avenue, also to reservation of record.

Dated 11/5/2004

FEE 7.25(2R) EXEMPT

Signature lines for Kyle Deno, Jackson County Clerk and other parties.

AUTHENTICATION

ACKNOWLEDGMENT

Signature(s)

authenticated on

STATE OF WISCONSIN Jackson County COUNTY ss.

TITLE: MEMBER STATE BAR OF WISCONSIN (If not, authorized by Wis. Stat. § 706.06)

Personally came before me on November 5, 2004, the above-named Kyle Deno to me known to be the person(s) who executed the foregoing instrument and acknowledged the same.

THIS INSTRUMENT DRAFTED BY:

Kyle Deno, Jackson County Clerk

Notary Public, State of Wisconsin My Commission (is permanent) (expires: 5/27/07)

NOTE: THIS IS A STANDARD FORM. ANY MODIFICATIONS TO THIS FORM SHOULD BE CLEARLY IDENTIFIED.

QUIT CLAIM DEED

© 2003 STATE BAR OF WISCONSIN

FORM NO. 3-2003

* Type name below signatures.

F.2. Certified Survey Map

330968

JACKSON COUNTY CERTIFIED SURVEY MAP NO. 2921

A part of FL 1, Sec. 14, T21N, R4W, City of Black River Falls, Jackson County, Wisconsin, for the City of Black River Falls

BEARINGS in this survey are based on the west line of the SW1/4--SW1/4 Sec. 14, which is assumed to bear NORTH.

LEGEND

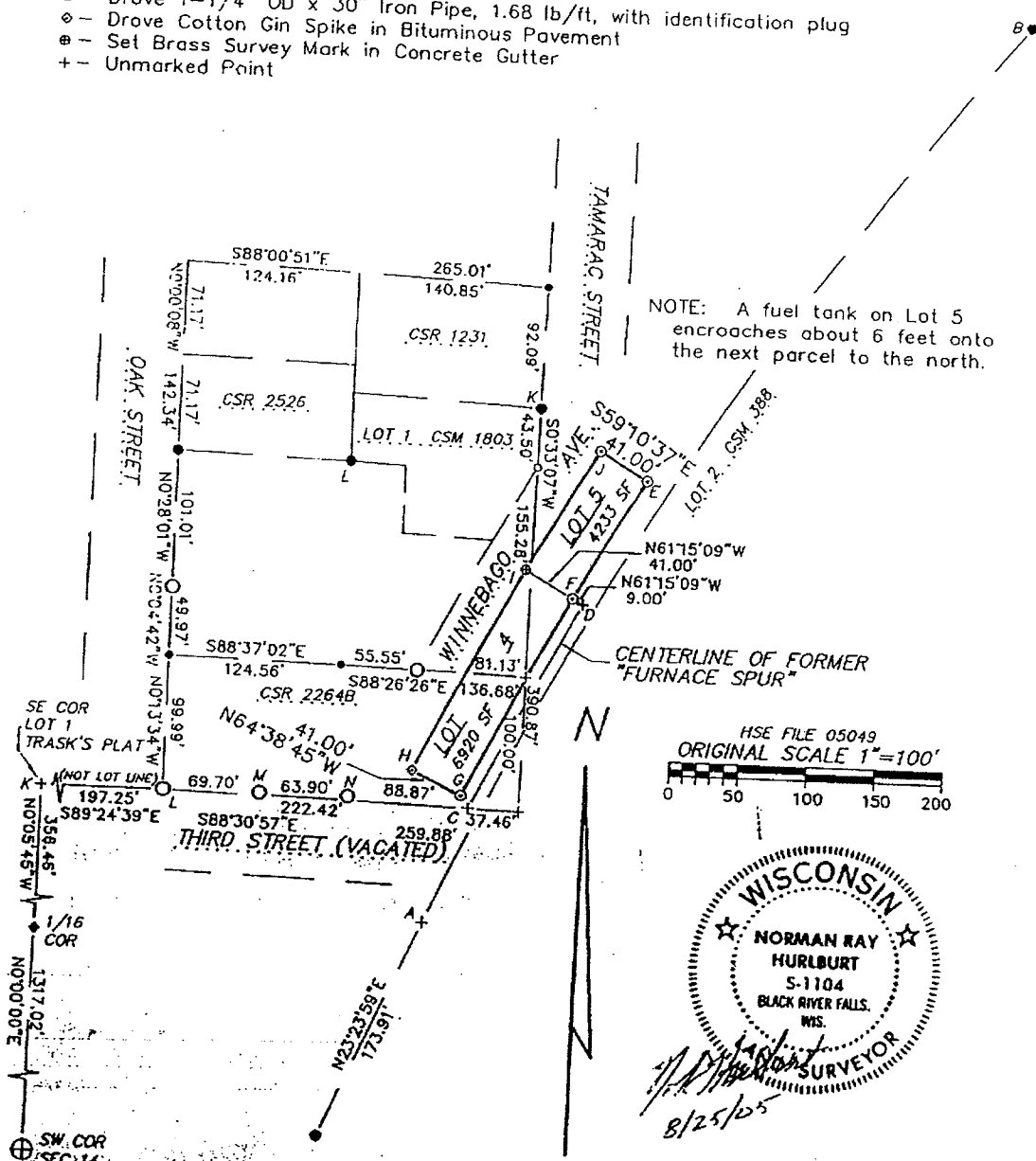
- ⊕ - Existing Aluminum Capped Aluminum Pipe
- - Existing 1-1/2" OD Iron Pipe set in CSR 2264B
- - Existing 1-1/4" OD Iron Pipe CSM 388 or 1803 or CSR 2526
- - Existing 1" OD Iron Pipe set in CSR 1231 or 2264B
- - 1/2" Hole drilled in Concrete Gutter in CSM 1803
- ◆ - Existing Cotton Gin Spike set in CSM 1500
- ⊖ - Drove 1-1/4" OD x 30" Iron Pipe, 1.68 lb/ft, with identification plug
- ⊙ - Drove Cotton Gin Spike in Bituminous Pavement
- ⊛ - Set Brass Survey Mark in Concrete Gutter
- + - Unmarked Point

RECEIVED FOR RECORD
AT 8:05 A.M.
Vol 122 Page 181

AUG 25 2005

SHARI MARG
REGISTER OF DEEDS
JACKSON COUNTY, WI

#15



NOTE: A fuel tank on Lot 5 encroaches about 6 feet onto the next parcel to the north.

HSE FILE 05049
ORIGINAL SCALE 1"=100'

WISCONSIN
NORMAN RAY
HURLBURT
S-1104
BLACK RIVER FALLS,
WIS.
SURVEYOR
8/25/05

F.2 Certified Survey Map

City of Black River Falls survey

Page 2 of three

CURVE	RADIUS	CENTRAL ANGLE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	TANGENT BEARING	TANGENT BEARING
A-B	2811.5'	16°18'53"	N31°33'25"E	797.88	800.58	N23°23'59"E	N39°42'52"E
C-D	2820.5'	3°30'52"	N26°59'25"E	172.97	173.00	N25°13'59"E	N28°44'51"E
E-G	2829.5'	5°28'08"	S28°05'19"W	269.98	270.09	S30°49'23"W	S25°21'15"W
E-F	"	2°04'32"	S29°47'07"W	102.59	102.52	S30°49'23"W	S28°44'51"W
F-G	"	3°35'36"	S27°03'03"W	167.55	167.57	S28°44'51"W	S25°21'15"W
H-I	2820.5'	5°28'08"	N28°05'19"E	273.90	274.00	N25°21'15"E	N30°49'23"E
I-J	"	3°23'36"	N27°03'03"E	169.98	170.00	N25°21'15"E	N28°44'51"E
J-K	"	2°04'32"	N29°47'07"E	103.99	104.00	N28°44'51"E	N30°49'23"E

COMMENTS

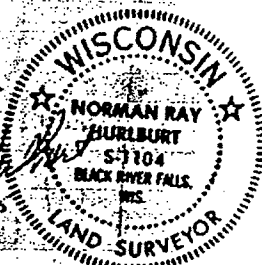
The original descriptions of the two lots shown on this CSM are referenced to the intersection of the north line of Third Street and the centerline of the "Furnace Spur" track. I had located the Furnace Spur in CSM 388, so that was quite easy to retrace. The north line of Third Street was quite another matter.

The only survey that shows any monumentation of Third Street on the south side of Block 4 of Popham's Addition is CSR 2264B by W.C. Winter. Since Mr. Winter was not a registered land surveyor, does not indicate whether the stakes he shows were found or set, and gives no basis for placement of the stakes, I hesitated to accept his stakes. In earlier surveys, I established the north line of Third Street west of Oak Street and used a projection of that line to establish corners on the east line of Oak Street. Projecting that line further, though, does not agree well with monuments of record on the north line of Block 4.

After much experimentation and deliberation, I found that all of Mr. Winter's stakes within Block 4, except those on the south line fit reasonably well with points to the north. I decided to extend his north line of Lot 12 easterly to intersect with the west line of Tamarac Street projected from CSM 1803. From that point, I projected the west line of Tamarac south 100 feet to establish a point on the north line of Third Street extended. Having accepted some of Mr. Winter's other stakes with up to a foot of error between them and other monuments of record, I accepted his Southwest block corner also. This is a reversal of my decision to ignore this pipe in CSR 2525 and 2526, but I think corners actually set on the east line of Oak Street in those surveys are still as close to the original corners as anyone can get. Mr. Blencoe, in CSR 1020, did extensive investigation throughout much of Popham's Addition, and in the end, based much of his work on fence corners. If he had nothing better than that, I think fitting plat distances within a foot or so, is probably good enough.

Although I accepted Mr. Winter's pipe at the Southwest corner of Block 4, I did not accept his other pipes on the south line. Pipe M is 1.69 feet north of my line and Point N is 2.98 feet north. With the way other things fit, I thought this was too much. These pipes line toward the Southeast corner of Lot 1 of Trask's Plat, which is not on the same line as the south line of Block 3 of Popham's Addition. One could speculate that someone used the corner in Trask's Plat and Mr. Blencoe's Northeast corner of Block 2 of Popham's Add. as a basis to determine the south line of Block 4. This is only speculation, but it fits the evidence. At any rate, I did not accept any of Mr. Winter's stakes on the north line of Third Street, except the block corner.

In CSM 1803, Dennis Melichar did not accept my pipe near L, or my pipe 12' southwest of his drilled hole in the gutter. After further consideration, I agree with him. I will leave my pipes in place, since they are now recorded on two surveys, but I do not think they should be used as property corners.



F.2. Certified Survey Map

City of Black River Falls survey

Page 3 of three

SURVEYOR'S CERTIFICATE

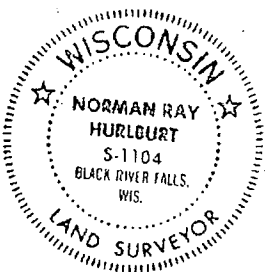
I, Norman R. Hurlburt, Registered Land Surveyor, hereby certify that, by the order and under the direction of Bill Arndt, Clerk of the City of Black River Falls, I have surveyed and mapped a part of Fractional Lot 1 on Section 14 in Township 21 North of Range 4 West, City of Black River Falls, Jackson County, Wisconsin, described as follows:

Commencing at the Southwest corner of said Section 14; thence North 0°00'00" East 1317.02 feet, to the Southwest corner of said Fractional Lot 1; thence North 0°05'45" West, on the west line thereof, 356.46 feet, to the Southeast corner of Lot 1 of Trask's Plat; thence South 89°24'39" East 197.25 feet, to the Southwest corner of Block 4 of Joseph Popham's Addition to the City of Black River Falls; thence South 88°30'57" East, on the south line of said Block 4, 222.42 feet, to the centerline of the so-called Furnace Spur of the Chicago and North Western Transportation Company (now removed); thence on a curve to the right having a radius of 2820.57 feet, a central angle of 3°30'52" and a long chord of North 26°59'25" East 172.97 feet, an arc distance of 173.00 feet; thence North 61°15'09" West 9.00 feet, to the point of beginning; thence on a curve to the left having a radius of 2829.57 feet, a central angle of 3°23'36" and a long chord of South 27°03'03" West 167.55 feet, an arc distance of 167.57 feet; thence North 64°38'45" West 41.00 feet; thence on a curve to the right having a radius of 2870.57 feet, a central angle of 5°28'08" and a long chord of North 28°05'19" East 273.90 feet, an arc distance of 274.00 feet; thence South 59°10'37" East 41.00 feet; thence on a curve to the left having a radius of 2829.57 feet, a central angle of 2°04'32" and a long chord of South 29°47'07" West 102.59 feet, an arc distance of 102.52 feet, to the point of beginning.

I further certify that this Certified Survey Map is a true and correct representation of the exterior boundaries of the land surveyed and the subdivisions thereof made, and that I have complied with the provisions of Section 236.34 of Wisconsin Statutes, to the best of my knowledge and belief.

Dated this 25th day of Aug, 2005

Norman R. Hurlburt
Norman R. Hurlburt S-1104
Hurlburt Surveying & Engr., Inc.
Black River Falls, Wisconsin



F.3. Verification of Zoning

Parcel #: 206-2216.0005

Valid as of 03/27/2017 09:32 AM

Alt. Parcel #:

CITY OF BLACK RIVER FALLS
JACKSON COUNTY,
WISCONSIN

Owner and Mailing Address: ATTN: TAX EXEMPT CITY OF BLACK RIVER FALLS 101 S 2ND ST BLACK RIVER FALLS WI 54615		Co-Owner(s):	
Districts:		Physical Property Address(es): Information Not Available	
Dist#	Description	Parcel History:	
0476	BK RIVER FLS SD0476	Date	Doc #
0200	VOC DIST-LA CROSSE	11/05/2004	326333
		11/04/2004	326305
		11/18/1992	263474
		Vol/Page	Type
		458/788	QCD
		458/697	QCD
		318/609	WD
Legal Description: PT OF NW SW NKA LOT 4 CSM 2921		Acres: 0.000	

Plat	Tract (S-T-R 40¼ 160¼ GL)	Block/Condo Bldg
* N/A-NOT AVAILABLE	14-21N-04W NW SW	

2016 Valuations: Values Last Changed on 06/06/2005

Class and Description	Acres	Land	Improvement	Total
X4-OTHER	0.000	0.00	0.00	0.00
Totals for 2016				
General Property	0	0.00	0.00	0.00
Woodland	0.000	0.00	0.00	0.00
Totals for 2015				
General Property	0.000	0.00	0.00	0.00
Woodland	0.000	0.00	0.00	0.00

2016 Taxes	Bill #	Fair Market Value:	Assessment Ratio:
	0	0.00	1.0101

	Amt Due	Amt Paid	Balance	Installments	
Net Tax	0.00	0.00	0.00	End Date	Total
Special Assessments	0.00	0.00	0.00	1	01/31/2017
Special Charges	0.00	0.00	0.00	2	07/31/2017
Delinquent Charges	0.00	0.00	0.00		0.00
Private Forest Crop	0.00	0.00	0.00	Net Mill Rate 0.024718272	
Woodland Tax	0.00	0.00	0.00	Gross Tax 0.00	
Managed Forest Land	0.00	0.00	0.00	School Credit 0.00	
Prop Tax Interest		0.00	0.00	Total 0.00	
Spec Tax Interest		0.00	0.00	First Dollar Credit 0.00	
Prop Tax Penalty		0.00	0.00	Lottery Credit 0 Claims 0.00	
Spec Tax Penalty		0.00	0.00	Net Tax 0.00	
Other Charges	0.00	0.00	0.00		
TOTAL	0.00	0.00	0.00		

Interest Calculated For 03/27/2017

Key

* -
Primary

F.4. Signed Statement

WDNR BRRTS Case #: 02-27-000428

WDNR Site Name: Home Oil Bulk Tanks Winnebago Ave.

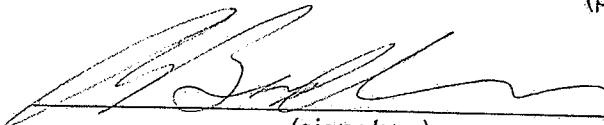
Geographic Information System (GIS) Registry of Closed Remediation Sites

In compliance with the revisions to the NR 700 rule series requiring certain closed sites to be listed on the Geographic Information System (GIS) Registry of Closed Remediation Sites (Registry) effective Nov., 2001, I have provided the following information.

To the best of my knowledge the legal descriptions provided and attached to this statement are complete and accurate.

Responsible Party:

A. Brad Chown, City Administrator
(print name/title)


(signature)

4/17/17
(date)

Attachment G/Notification to Owners of Impacted Properties

- G.1 Deeds – Soil contamination exceeding the NR720 RCL's and groundwater contamination exceeding the NR140 Enforcement Standards does not appear to extend beyond the property boundaries of this site.
- G.2 Certified Survey Map – Soil contamination exceeding the NR720 RCL's and groundwater contamination exceeding the NR140 Enforcement Standards does not appear to extend beyond the property boundaries of this site.
- G.3 Verification of Zoning – Soil contamination exceeding the NR720 RCL's and groundwater contamination exceeding the NR140 Enforcement Standards does not appear to extend beyond the property boundaries of this site.
- G.4 Signed Statement – Soil contamination exceeding the NR720 RCL's and groundwater contamination exceeding the NR140 Enforcement Standards does not appear to extend beyond the property boundaries of this site.