State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee WI 53212-3128

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

October 15, 2019

Rob Chapman
W344 S9450 Jericho Dr.
Eagle, WI 53119

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
Chapman Oil Bulk Plt, 314 Wisconsin Street, Eagle, WI
DNR BRRTS Activity #: 02-68-215749, PECFA # 53119-9998-14
FID #: 268621650

Dear Mr. Chapman:

The Department of Natural Resources (DNR) considers Chapman Oil Bulk Plt. (the Site) closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property 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 and any attachments listed at the end of this letter to anyone who purchases, rents or leases this property from you. For residential property transactions, you may be required to make disclosures under s. 709.02, Wis. Stats. Certain continuing obligations also apply to affected property owners or rights-of-way holders. These are identified within each continuing obligation.

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 DNR reviewed the request for closure on June 12, 2019. The DNR reviewed this environmental remediation case for compliance with state laws and standards to maintain consistency in the closure of these cases. A request for remaining actions needed was issued by the DNR on June 21, 2019, and documentation that the conditions in that letter were met was received on September 27, 2019.

This Site was used as a bulk petroleum storage site and railroad re-fueling site. Soil contaminated with petroleum compounds was excavated and properly disposed, in order to reduce the levels and amount of residual soil contamination on the site. 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.

- 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 online at dnr.wi.gov and search "RR-819".

DNR Database

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web (BOTW) online at dnr.wi.gov and search "BOTW", 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, at dnr.wi.gov and search "RRSM".

The DNR's approval prior to well construction or reconstruction is required 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 dnr.wi.gov and search "3300-254".

All site information is also on file at the Waukesha State Office Building, 141 NW Barstow Street, Room 180, Waukesha, WI. This letter and information that was submitted with your closure request application, including any maps, can be found as a Portable Document Format (PDF) in BOTW.

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you, the current property owner, 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, Wis. Stats. 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
2300 North Martin Luther King Drive
Milwaukee, WI 53212

Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)
Soil contamination remains as indicated on the attached map Figure B.2.a, Soil Contamination, dated March 22, 2017. If soil in the specific locations shown above is excavated in the future, the property owner or right-of-way holder 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 or right-of-way holder 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. This continuing obligation also applies to the ROW holders for Partridge Street.

In addition, all current and future owners and occupants of the property and right-of-way holders 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.

Chapter NR 140, Wis. Adm. Code Exemption

Recent groundwater monitoring data at this site indicates that for Chrysene at monitoring well MW-1, contaminant levels exceed the NR 140 preventive action limit (PAL) but are below the enforcement standard (ES). The DNR may grant an exemption to a PAL for a substance of public health concern, other than nitrate, pursuant to s. NR 140.28 (2) (b), Wis. Adm. Code, if all of the following criteria are met:

1. The measured or anticipated increase in the concentration of the substance will be minimized to the extent technically and economically feasible.
2. Compliance with the PAL is either not technically or economically feasible.
3. The enforcement standard for the substance will not be attained or exceeded at the point of standards application. [Note: at this site the point of standards application is all points where groundwater is monitored.]
4. Any existing or projected increase in the concentration of the substance above the background concentration does not present a threat to public health or welfare.

Based on the information you provided, the DNR believes that these criteria have been or will be met. Therefore, pursuant to s. NR 140.28, Wis. Adm. Code, an exemption to the PAL is granted for Chrysene at monitoring well MW-1. Please keep this letter, because it serves as your exemption.

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 Project Manager 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 Greg Michael at 262.574.2176, or at Greg.Michael@Wisconsin.gov .

Sincerely,

Pamela A. Mylotta
Southeast Region Team Supervisor
Remediation & Redevelopment Program

Attachments:

- Figure B.2.a, Soil Contamination, dated March 22, 2017

cc: METCO, Jason Powell, La Crosse, e-mail only
Bill Phelps, DG/5, e-mail only

B.2.a SOIL CONTAMINATION
CHAPMAN OIL BULK PLANT
METCO
709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
Excellence through experience
EAGLE, WISCONSIN
DRAWN BY: BK
DATE: 03/22/2017
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER
SCALE: 1 INCH = 25 FEET
0
25
● - GEOPROBE BORING LOCATION
✕ - HAND AUGER BORING LOCATION
◐ - SOIL BORING LOCATION
◉ - MONITORING WELL LOCATION
⊗ - EXCAVATION CONFIRMATION SAMPLE LOCATION
- PROPERTY BOUNDARY
- WATER LINE
- STORM SEWER
- BURIED PHONE/FIBER OPTIC
- OVERHEAD ELECTRIC
▨ - AREA OF EXCAVATION
•• - INDICATES DIRECT CONTACT FALL-OUT DUE TO cPAH CALCULATOR.
RESIDENTIAL
111 E WAUKESHA ROAD
RESIDENTIAL
316 WISCONSIN STREET
RESIDENTIAL
105 E WAUKESHA ROAD
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCLs FOR PVOC & LEAD.
AREAS OF UNSATURATED SOIL CONTAMINATION EXCEEDING THE CUMULATIVE DIRECT CONTACT cPAH CANCER RISK AND/OR R720 GROUNDWATER RCLs FOR PAH COMPOUNDS
AREAS OF SOIL EXCAVATION TO 4 FEET BGS
A
B
C
D
G-28
G-27
••G-15
••G-30
••G-14
••G-26
G-16
G-4
••G-31
••G-25
G-13
G-7
HA-5
••G-17
••G-6
HA-4
••G-32
EARTHERN BERM
EARTHERN BERM
EARTHERN BERM
FORMER AST SYSTEMS
MW-2
G-5
••G-24
G-18
G-3
G-12
GRASS
FENCE
CHAPMAN OIL
314 WISCONSIN STREET
BRRTS # 03-68-215749
B-3
G-29
G-8
G-23
MW-3
EX-1
EX-2
BUILDING FOUNDATION
FORMER SHED
FORMER LOADING RACK
G-2
G-20
HA-3
HA-2
G-21
GRASS
G-10
B-1
G-1
MW-1
EX-3
EX-4
G-22
GRASS
WISCONSIN STREET
PARTRIDGE STREET
GRASS
••G-19
HA-1
G-9
GRASS
EX-5
EX-6
G-11
GRAVEL
ASPHALT DRIVEWAY
CENTURY LINK
GRASS
WISCONSIN & SOUTHERN RAILROAD

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Case Closure – GIS Registry

Form 4400-202 (R 8/16)

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.		
02-68-215749			
Parcel ID No.			
EGLV1813029			
FID No.	**WTM Coordinates**		
	X	Y	
268621650	644721	268668	
BRRTS Activity (Site) Name	**WTM Coordinates Represent:**		
Chapman Oil Bulk Plant	☒ Source Area	☐ Parcel Center	
Site Address	**City**	**State**	**ZIP Code**
314 Wisconsin Street	Eagle	WI	53119
Acres Ready For Use			
0.16			

Responsible Party (RP) Name			
Rob Chapman			
Company Name			
Mailing Address	**City**	**State**	**ZIP Code**
W344 S9450 Jericho Drive	Eagle	WI	53119
Phone Number	**Email**		
(262) 844-0185	troybp@centurylink.net		

☒ 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

1. **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:

   ☐ $1,050 Closure Fee

   ☐ $350 Database Fee for Groundwater or Monitoring Wells (Not Abandoned)

   ☐ $300 Database Fee for Soil

   Total Amount of Payment $ _____

   ☒ Resubmittal, Fees Previously Paid

2. **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 subject property is located in the SW 1/4 of the NE 1/4, Section 22, Township 05 North, Range 17 East, Village of Eagle, Waukesha County, Wisconsin. The property consists of one tax parcel (PID #EGLV1813029), and is bound by Partridge Street to the southwest, Wisconsin Street to the southeast, a residence to the northwest (105 E. Waukesha Rd.), and an undeveloped public alley to the northeast with residence beyond.

B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use.
A bulk petroleum storage facility existed on the subject property from at least the 1930's until 2000. The facility consisted of three 17,000-gallon AST's (gasoline, diesel, and fuel oil), three 10,000-gallon AST's (two fuel oil and one diesel), a 4,000-gallon diesel AST, and a 3,000-gallon gasoline AST. All remnants of the former bulk petroleum facility have been removed from the property and the property is currently a vacant lot.

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 Village of Eagle zoning map, the subject property is zoned RD-1 (Two Family Residential). The adjacent property to the northwest is zoned B-1 (Central Business) and the adjacent properties to the north and northeast are zoned RS-2 (Single Family Residential).

D. Describe how and when site contamination was discovered.
On January 25, 1999, Fluid Management, Inc. completed four Geoprobe borings at the subject property. One soil sample was collected from each Geoprobe boring and submitted for laboratory analysis. Petroleum contamination was encountered in soil sample GP-1 (16 ppm DRO) and subsequently reported to the WDNR. The WDNR then required that a site investigation be conducted at the Chapman Oil Bulk Plant property.

E. Describe the type(s) and source(s) or suspected source(s) of contamination.
Three 17,000-gallon AST's (gasoline, diesel, and fuel oil), three 10,000-gallon AST's (two fuel oil and one diesel), a 4,000-gallon diesel AST, and a 3,000-gallon gasoline AST existed at the Chapman Oil Bulk Plant Site, and are the suspected sources and types of contamination.

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.
No other BRRTS activities exist at the subject property.

H. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to (abutting) this source property.
No 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.
Local unconsolidated materials generally consist of fine to coarse grained sand with gravel and cobbles (till) from surface to at least 37 feet below ground surface (bgs).

ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
No fill was encountered during the site investigation.

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, but sandstone bedrock is expected to exist at 100 feet bgs.

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 covered in sand, gravel, and vegetation.

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.

Based on water level measurements from the monitoring wells, groundwater exists at depths ranging from 28.62 to 32.13 feet bgs depending on well location and time of year. Free product was never encountered during this investigation. The stratigraphic unit where the water table was encountered consists of fine to coarse grained sand with gravel and cobbles (till). No piezometers were installed during the investigation.

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

According to the watertable measurements collected during groundwater sampling, local horizontal shallow groundwater flow in the immediate area of the subject property is generally toward the north to slightly northwest. The flow direction deeper in the aquifer is not known because no piezometers were installed as part of the site investigation.

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

On September 22, 2014, METCO conducted slug tests on monitoring wells MW-1 and MW-3. The slug test data from monitoring wells MW-1 and MW-3 were evaluated using the curve fitting program "Hydro-Test for Windows" Produced by Dakota Environmental, Inc.

Slug test data was evaluated using the Bouwer and Rice method. Hydrogeologic parameters were estimated as follows:

Monitoring Well MW-1
Hydraulic Conductivity (K) = 0.0178 cm/sec
Transmissivity = 2.52 cm2/sec
Flow Velocity (V=KI/n) = 138.90 m/yr

Monitoring Well MW-3
Hydraulic Conductivity (K) = 0.00344 cm/sec
Transmissivity = 0.883 cm2/sec
Flow Velocity (V=KI/n) = 26.83 m/yr

Since the thickness of the unconfined aquifer was unknown, the bottoms of monitoring wells MW-1 and MW-3 were assumed as the lower extent of the aquifer for calculation purposes. A slug test was attempted on monitoring well MW-2. However, the transducer cord for the data logger was not long enough to reach the water table in MW-2. Therefore no hydraulic conductivity data was collected from MW-2.

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 Village of Eagle municipal water supply. The nearest municipal well is located at 331 Kettle Moraine Drive, being approximately 475 feet to the northwest. Well #2 is located approximately 2,500 feet to the east-southeast of the subject property. The other two municipal wells (Wells #3 and #4) are located approximately 2 miles from the subject property. There are no known private wells 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 August 12-13, 2013, METCO completed ten Geoprobe borings (G-1 through G-10). Sixty-five soil samples and five groundwater samples were collected for field and/or laboratory analysis (DRO, GRO, VOC's, PVOC, PAH, Naphthalene, and Lead). Five groundwater samples (G-1-W through G-5-W) were collected for laboratory analysis (PVOC and Napththalene). (Site Investigation Report - February 10, 2015)

On August 12-13, 2014, during the Drilling Project, METCO completed five hand-augured borings (HA-1 through HA-5) and two Geoprobe borings (B-1and B-2), and installed three monitoring wells (MW-1 through MW-3). Twenty-nine soil samples were collected for field and/or laboratory analysis (PAH, TCLP Lead, and TCLP Benzene). (Site Investigation Report - February 10, 2015)

On September 22, 2014, METCO collected groundwater samples from the three monitoring wells for field and laboratory analysis (VOC, PAH, Dissolved Lead, Dissolved Iron, Dissolved Manganese, Nitrate/Nitrite, and Sulfate). Field measurements for water level, Dissolved Oxygen, pH, Oxidation Reduction Potential (ORP), temperature, and Specific Conductivity were also collected. The three monitoring wells were also surveyed to Mean Sea Level at this time. METCO also conducted slug test calculations on two of the monitoring wells. (Site Investigation Report -

February 10, 2015)

On December 16, 2014, METCO collected groundwater samples from the three monitoring wells for field and laboratory analysis (PVOC, PAH, and Dissolved Lead). Field measurements for water level, Dissolved Oxygen, pH, ORP, temperature, and Specific Conductivity were also collected. It should be noted that the bottles containing the PAH samples from monitoring wells MW-1 and MW-2 were found to be broken upon arrival at Synergy Laboratory. (Site Investigation Report - February 10, 2015)

On February 12, 2016, Geiss Soil and Samples LLC, of Merrill, Wisconsin, completed twelve Geoprobe borings (G-11 thru G-22) under the supervision of METCO personnel. The borings were completed to a depth of four feet bgs with two soil samples collected from each boring for field (PID) and/or laboratory analysis (PAH). (Email Correspondence - September 20, 2016)

On February 16, 2017, Geiss Soil and Samples LLC, of Merrill, Wisconsin, completed ten Geoprobe borings (G-23 thru G-32) under the supervision of METCO personnel. The borings were completed to a depth of four feet bgs with two soil samples collected from each boring for field (PID) and/or laboratory analysis (PAH). (Letter Report - March 30, 2017)

On February 15, 2018, METCO completed the Risk Assessment Approach for cPAH's using the modified calculator. Eighteen soil samples were run using the modified calculator. (Risk Assessment Approach for cPAH's Letter Report - February 15, 2018)

On September 24-26, 2018, DKS Construction Services, Inc. of Menomonie, Wisconsin conducted a Soil Excavation Project under the supervision and direction of METCO personnel. Four separate areas (A, B, C, and D) were excavated during the project. Area A was near the former shed in the southwest corner of the property. This excavation area consisted of an irregular shape, as shown on the attached Soil Excavation Map. It measures up to 100 feet long x 55 feet wide x 4 feet deep. Area B was to the northwest of the former AST systems in the northwest corner of the property. This excavation area consisted of a rectangular shape, as shown on the attached Soil Excavation Map. It measures approximately 35 feet long x 30 feet wide x 4 feet deep. Area C was to the east of the former AST systems in the northeast corner of the property. This excavation area consisted of a rectangular shape, as shown on the attached Soil Excavation Map. It measures approximately 30 feet long x 22 feet wide x 4 feet deep. And Area D was to the southeast of the former AST systems along the southeast boundary of the property. This excavation area consisted of a rectangular shape, as shown on the attached Soil Excavation Map. It measures approximately 27 feet long x 19 feet wide x 4 feet deep. Six soil samples were collected from the sidewalls of excavation Area A for PAH analysis. Three samples were collected at approximately 1-foot bgs and three samples were collected at approximately 3 feet bgs. During the excavation project, 1,024.16 tons of petroleum-contaminated soil was excavated and hauled to the Mallard Ridge Landfill in Delavan, Wisconsin. (Letter Report - November 20, 2018)

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.

Petroleum contamination in groundwater does not extend beyond the source property boundary.

An area of unsaturated soil contamination exceeding the cumulative Direct Contact cPAH Cancer Risk values and/or NR720 GW RCLs for PAH compounds remains in the right of way of Partridge Street in the area of EX-1 at the southwest boundary of Excavation Area A. This area measures approximately 7 feet long, 23 feet wide, and up to 2 feet thick.

An area of unsaturated soil contamination exceeding the cumulative Direct Contact cPAH Cancer Risk values and/or NR720 GW RCLs for PAH compounds remains in the right of way of Partridge Street in the area of EX-5 and EX-6 at the southwest boundary of Excavation Area A. This area measures approximately 5 feet long, 18 feet wide, and up to 4 feet thick.

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.

There were no structural impediments to the completion of the investigation or remediation.

B. Soil

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

An area of unsaturated soil contamination exceeding the NR720 Groundwater RCLs for PVOC and Lead exists in the area of the former AST systems. This area at its widest point measures approximately 80 feet long, 46 feet wide, and up to 5 feet thick.

An area of unsaturated soil contamination exceeding the cumulative Direct Contact cPAH Cancer Risk values and/or NR720 GW RCLs for PAH compounds, exists in the area of EX-1 at the southwest boundary of Excavation Area A. This area measures approximately 7 feet long, 23 feet wide, and up to 2 feet thick.

An area of unsaturated soil contamination exceeding the cumulative Direct Contact cPAH Cancer Risk values and/or NR720 GW RCLs for PAH compounds, exists in the area of EX-5 and EX-6 at the southwest boundary of Excavation Area A. This area measures approximately 5 feet long, 18 feet wide, and up to 2 feet thick.

ii. Describe the concentration(s) and types of soil contaminants found in the upper four feet of the soil column.
The remaining soil samples within the top four feet of ground surface that exceed the NR720 RCL's or cumulative Direct Contact (cPAH) Cancer Risk Values include the following:

G-1-1 at 3.5 feet bgs: 1.56 ppm Toluene

G-3-1 at 3.5 feet bgs: 31.6 ppm Lead

G-4-1 at 3.5 feet bgs: 88.2 ppm Lead

G-5-1 at 3.5 feet bgs: 32.2 ppm Lead

G-6-1 at 3.5 feet bgs: 145 ppm Lead and 0.050 ppm Benzene

G-7-1 at 3.5 feet bgs: 196 ppm Lead

G-8-1 at 3.5 feet bgs: 66.2 ppm Lead

EX-1 at 1.0 feet bgs: 0.82 ppm Benzo(a)pyrene, 1.26 ppm Benzo(b)fluoranthene, 0.94 ppm Chrysene, and 0.116 Dibenzo(a,h)anthracene

EX-6 at 3.0 feet bgs: 0.48 ppm Benzo(a)pyrene, 0.73 ppm Benzo(b)fluoranthene, and 0.42 ppm Chrysene

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 and cumulative Direct Contact (cPAH) Cancer Risk Values. The property is zoned "RD-1 (Two Family Residential)," 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 PAL only has formed at the water table and has migrated toward the north. This plume is approximately 89 feet long and 37 feet wide.

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 was not encountered during the site investigation.

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.
Regarding vapor intrusion, neither soil nor groundwater contamination appear to extend up to or underneath any on-site or off-site buildings and contaminant are levels low level. Therefore, the risk of vapor intrusion from petroleum contamination appears unlikely at this time.

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 vapor samples were collected as part of the site investigation.

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 an unnamed creek, which exists approximately 4,000 feet to the south-southeast of the subject property.

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 as part of this site investigation.

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 September 24-26, 2018, DKS Construction Services, Inc. of Menomonie, Wisconsin conducted a Soil Excavation Project under the supervision and direction of METCO personnel. Four separate areas (A, B, C, and D) were excavated during the project. Area A was near the former shed in the southwest corner of the property. This excavation area consisted of an irregular shape, as shown on the attached Soil Excavation Map. It measures up to 100 feet long x 55 feet wide x 4 feet deep. Area B was to the northwest of the former AST systems in the northwest corner of the property. This excavation area consisted of a rectangular shape, as shown on the attached Soil Excavation Map. It measures approximately 35 feet long x 30 feet wide x 4 feet deep. Area C was to the east of the former AST systems in the northeast corner of the property. This excavation area consisted of a rectangular shape, as shown on the attached Soil Excavation Map. It measures approximately 30 feet long x 22 feet wide x 4 feet deep. And Area D was to the southeast of the former AST systems along the southeast boundary of the property. This excavation area consisted of a rectangular shape, as shown on the attached Soil Excavation Map. It measures approximately 27 feet long x 19 feet wide x 4 feet deep. Six soil samples were collected from the sidewalls of excavation Area A for PAH analysis. Three samples were collected at approximately 1-foot bgs and three samples were collected at approximately 3 feet bgs. During the excavation project, 1,024.16 tons of petroleum-contaminated soil was excavated and hauled to the Mallard Ridge Landfill in Delavan, Wisconsin.

B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.

No immediate or interim actions have been completed.

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 September 24-26, 2018, DKS Construction Services, Inc. of Menomonie, Wisconsin conducted a Soil Excavation Project under the supervision and direction of METCO personnel. Four separate areas (A, B, C, and D) were excavated during the project. Area A was near the former shed in the southwest corner of the property. This excavation area consisted of an irregular shape, as shown on the attached Soil Excavation Map. It measures up to 100 feet long x 55 feet wide x 4 feet deep. Area B was to the northwest of the former AST systems in the northwest corner of the property. This excavation area consisted of a rectangular shape, as shown on the attached Soil Excavation Map. It measures approximately 35 feet long x 30 feet wide x 4 feet deep. Area C was to the east of the former AST systems in the northeast corner of the property. This excavation area consisted of a rectangular shape, as shown on the attached Soil Excavation Map. It measures approximately 30 feet long x 22 feet wide x 4 feet deep. And Area D was to the southeast of the former AST systems along the southeast boundary of the property. This excavation area consisted of a rectangular shape, as shown on the attached Soil Excavation Map. It measures approximately 27 feet long x 19 feet wide x 4 feet deep. Six soil samples were collected from the sidewalls of excavation Area A for PAH analysis. Three samples were collected at approximately 1-foot bgs and three samples were collected at approximately 3 feet bgs. During the excavation project, 1,024.16 tons of petroleum-contaminated soil was excavated and hauled to the Mallard Ridge Landfill in Delavan, Wisconsin.

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.

An area of unsaturated soil contamination exceeding the NR720 Groundwater RCLs for PVOC and Lead remains on the subject property and exists in the area of the former AST systems. This area at its widest point measures approximately 80 feet long, 46 feet wide, and up to 5 feet thick.

An area of unsaturated soil contamination exceeding the cumulative Direct Contact cPAH Cancer Risk values and/or NR720 GW RCLs for PAH compounds remains in the right of way of Partridge Street in the area of EX-1 at the southwest boundary of Excavation Area A. This area measures approximately 7 feet long, 23 feet wide, and up to 2 feet thick.

An area of unsaturated soil contamination exceeding the cumulative Direct Contact cPAH Cancer Risk values and/or NR720 GW RCLs for PAH compounds remains in the right of way of Partridge Street in the area of EX-5 and EX-6 at the southwest boundary of Excavation Area A. This area measures approximately 5 feet long, 18 feet wide, and up to 2 feet thick.

A dissolved phase contaminant plume exceeding the NR140 ES and PAL has formed at the watertable and has migrated

toward the north. This plume is approximately 89 feet long and 37 feet wide.

Petroleum contamination in groundwater does not extend beyond the source property boundary.

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.
Residual soil contamination within the upper four feet of ground surface which exceeds the NR720 Non-Industrial Direct Contact RCL values and cumulative Direct Contact (cPAH) Cancer Risk Values are as follows:

EX-1 at 1.0 feet bgs: 0.82 ppm Benzo(a)pyrene, 1.26 ppm Benzo(b)fluoranthene, 0.116 Dibenzo(a,h)anthracene

EX-6 at 3.0 feet bgs: 0.48 ppm Benzo(a)pyrene

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.
Residual soil contamination above the observed low water table which currently exceeds NR720 Groundwater RCLs or cumulative Direct Contact (cPAH) Cancer Risk Values remains in the following locations:

G-1-1 at 3.5 feet bgs: 1.56 ppm Toluene

G-3-1 at 3.5 feet bgs: 31.6 ppm Lead

G-4-1 at 3.5 feet bgs: 88.2 ppm Lead

G-5-1 at 3.5 feet bgs: 32.2 ppm Lead

G-6-1 at 3.5 feet bgs: 145 ppm Lead and 0.050 ppm Benzene

G-7-1 at 3.5 feet bgs: 196 ppm Lead

G-8-1 at 3.5 feet bgs: 66.2 ppm Lead

EX-1 at 1.0 feet bgs: 0.82 ppm Benzo(a)pyrene, 1.26 ppm Benzo(b)fluoranthene, and 0.94 ppm Chrysene

EX-6 at 3.0 feet bgs: 0.48 ppm Benzo(a)pyrene, 0.73 ppm Benzo(b)fluoranthene, and 0.42 ppm Chrysene

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.
Residual soil and groundwater contamination will be addressed by 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).
Based on the groundwater analytical trends, groundwater contamination levels appear to be stable to decreasing and it appears that natural attenuation will be effective in reducing contaminant mass and concentration.

J. Identify how all exposure pathways (soil, groundwater, vapor) were removed and/or adequately addressed by immediate, interim and/or remedial action(s).
The majority of impacted soil was removed via excavation. There are no NR140 ES exceedances in groundwater. Vapor risk is unlikely due to soil remediation and lack of groundwater contamination.

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.
Monitoring well MW-1 (Chrysene) currently exceeds the NR140 PAL values.

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 air or 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.

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

Notifications to Owners of Affected Properties (Attachment G)

ID	Address of Affected Property	Parcel ID No.	Date of Receipt of Letter	Type of Property Owner	WTMX	WTMY	Reasons Notification Letter Sent: Residual Groundwater Contamination = or > ES	Residual Soil Contamination Exceeds RCLs	Monitoring Wells: Not Abandoned	Monitoring Wells: Continued Monitoring	Cover/Barrier/Engineered Control	Structural Impediment	Industrial RCLs Met/Applied	Vapor Mitigation System(VMS)	Dewatering System Needed for VMS	Compounds of Concern in Use	Commercial/Industrial Vapor Exposure Assumptions Applied	Residual Volatile Contamination Poses Future Risk of Vapor Intrusion	Site Specification Situation
A	Partridge Street		02/19/2019	ROWH	644700	268660		X											
B																			
C																			
D																			

Signatures and Findings for Closure Determination

This page has been updated as of February 2019 to comply with the requirements of Wis. Admin. Code ch. NR 712.

Check the correct box for this case closure request and complete the corresponding certification statement(s) listed below to demonstrate that the requirements of Wis. Admin. Code ch. NR 712 have been met. The responsibility for signing the certification may not be delegated per Wis. Admin. Code § NR 712.09 (1). Per Wis. Admin. Code § 712.05 (1), the work must be conducted or supervised by the person certifying.

- ○ The investigation and/or response action(s) for this site evaluated and/or addressed groundwater (including natural attenuation remedies). Both a professional engineer and a hydrogeologist must sign this document per Wis. Admin. Code ch. NR 712.
- ○ The investigation and the response action(s) for this site did not evaluate or address groundwater. A professional engineer must sign this document per Wis. Admin. Code ch. NR 712.

Engineering Certification

I, Jill C. Mickelson, 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 document has been prepared 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 document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature Jill Mickelson P. E. # 42598-6

Title Senior Engineer P.E. Stamp

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, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature Ronald J. Anderson

Title Senior Hydrogeologist/Project Manager Date 3/28/19

Attachment A/Data Tables

A.1 Groundwater Analytical Table(s)

A.2 Soil Analytical Table(s)

A.3 Residual Soil Analytical 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

A.7 Other - Groundwater NA Indicator Results and Slug Test Calculations

A.1 Groundwater Analytical Table
Chapman Oil BRRTS# 02-68-215749

Well MW-1
PVC Elevation = 944.50 (MSL)

Date	Water Elevation (in msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/22/14	914.54	29.96	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
12/16/14	913.15	31.35	1.1	<0.27	<0.82	<0.37	NS	<0.8	<1.69	<2.41
ENFORCE MENT STANDARD **ES = Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-2
PVC Elevation = 947.73 (MSL)

Date	Water Elevation (in msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/22/14	914.26	33.47	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
12/16/14	912.77	34.96	<0.7	<0.27	<0.82	<0.37	NS	<0.8	<1.69	<2.41
ENFORCE MENT STANDARD **ES = Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-3
PVC Elevation = 946.14 (MSL)

Date	Water Elevation (in msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/22/14	914.38	31.76	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
12/16/14	913.01	33.13	<0.7	<0.27	<0.82	<0.37	<0.023	<0.8	<1.69	<2.41
ENFORCE MENT STANDARD **ES = Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
Chapman Oil BRRTS# 02-68-215749

Well Sampling Conducted on:	09/22/14	09/22/14	09/22/14	ENFORCE MENT STANDARD = ES – Bold	*PREVENTIVE ACTION LIMIT = PAL - Italics*
VOC's					
Well Name	MW-1	MW-2	MW-3		
Lead, dissolved/ppb	< 0.7	< 0.7	< 0.7	**15**	*1.5*
Benzene/ppb	< 0.24	< 0.24	< 0.24	**5**	*0.5*
Bromobenzene/ppb	< 0.32	< 0.32	< 0.32	==	==
Bromodichloromethane/ppb	< 0.37	< 0.37	< 0.37	**0.6**	*0.06*
Bromoform/ppb	< 0.35	< 0.35	< 0.35	**4.4**	*0.44*
tert-Butylbenzene/ppb	< 0.36	< 0.36	< 0.36	==	==
sec-Butylbenzene/ppb	0.64 "J"	< 0.33	< 0.33	==	==
n-Butylbenzene/ppb	< 0.35	< 0.35	< 0.35	==	==
Carbon Tetrachloride/ppb	< 0.33	< 0.33	< 0.33	**5**	*0.5*
Chlorobenzene/ppb	< 0.24	< 0.24	< 0.24	==	==
Chloroethane/ppb	< 0.63	< 0.63	< 0.63	**400**	*80*
Chloroform/ppb	< 0.28	< 0.28	< 0.28	**6**	*0.6*
Chloromethane/ppb	< 0.81	< 0.81	< 0.81	**30**	*3*
2-Chlorotoluene/ppb	< 0.21	< 0.21	< 0.21	==	==
4-Chlorotoluene/ppb	< 0.21	< 0.21	< 0.21	==	==
1,2-Dibromo-3-chloropropane/ppb	< 0.88	< 0.88	< 0.88	**0.2**	*0.02*
Dibromochloromethane/ppb	< 0.22	< 0.22	< 0.22	**60**	*6*
1,4-Dichlorobenzene/ppb	< 0.3	< 0.3	< 0.3	**75**	*15*
1,3-Dichlorobenzene/ppb	< 0.28	< 0.28	< 0.28	**600**	*120*
1,2-Dichlorobenzene/ppb	< 0.36	< 0.36	< 0.36	**600**	*60*
Dichlorodifluoromethane/ppb	< 0.44	< 0.44	< 0.44	**1000**	*200*
1,2-Dichloroethane/ppb	< 0.41	< 0.41	< 0.41	**5**	*0.5*
1,1-Dichloroethane/ppb	< 0.3	< 0.3	< 0.3	**850**	*85*
1,1-Dichloroethene/ppb	< 0.4	< 0.4	< 0.4	**7**	*0.7*
cis-1,2-Dichloroethene/ppb	< 0.38	< 0.38	< 0.38	**70**	*7*
trans-1,2-Dichloroethene/ppb	< 0.35	< 0.35	< 0.35	**100**	*20*
1,2-Dichloropropane/ppb	< 0.32	< 0.32	< 0.32	**5**	*0.5*
2,2-Dichloropropane/ppb	< 0.36	< 0.36	< 0.36	==	==
1,3-Dichloropropane/ppb	< 0.33	< 0.33	< 0.33	==	==
Di-isopropyl ether/ppb	< 0.23	< 0.23	< 0.23	==	==
EDB (1,2-Dibromoethane)/ppb	< 0.44	< 0.44	< 0.44	**0.05**	*0.005*
Ethylbenzene/ppb	< 0.55	< 0.55	< 0.55	**700**	*140*
Hexachlorobutadiene/ppb	< 1.5	< 1.5	< 1.5	==	==
Isopropylbenzene/ppb	< 0.3	< 0.3	< 0.3	==	==
p-Isopropyltoluene/ppb	< 0.31	< 0.31	< 0.31	==	==
Methylene chloride/ppb	< 0.5	< 0.5	< 0.5	**5**	*0.5*
Methyl tert-butyl ether (MTBE)/ppb	< 0.23	< 0.23	< 0.23	**60**	*12*
Naphthalene/ppb	< 1.7	< 1.7	< 1.7	**100**	*10*
n-Propylbenzene/ppb	< 0.25	< 0.25	< 0.25	==	==
1,1,2,2-Tetrachloroethane/ppb	< 0.45	< 0.45	< 0.45	**0.2**	*0.02*
1,1,1,2-Tetrachloroethane/ppb	< 0.33	< 0.33	< 0.33	**70**	*7*
Tetrachloroethene (PCE)/ppb	< 0.33	< 0.33	< 0.33	**5**	*0.5*
Toluene/ppb	< 0.69	< 0.69	< 0.69	**800**	*160*
1,2,4-Trichlorobenzene/ppb	< 0.98	< 0.98	< 0.98	**70**	*14*
1,2,3-Trichlorobenzene/ppb	< 1.8	< 1.8	< 1.8	==	==
1,1,1-Trichloroethane/ppb	< 0.33	< 0.33	< 0.33	**200**	*40*
1,1,2-Trichloroethane/ppb	< 0.34	< 0.34	< 0.34	**5**	*0.5*
Trichloroethene (TCE)/ppb	< 0.33	< 0.33	< 0.33	**5**	*0.5*
Trichlorofluoromethane/ppb	< 0.71	< 0.71	< 0.71	==	==
1,2,4-Trimethylbenzene/ppb	< 2.2	< 2.2	< 2.2	**Total TMB's 480**	*Total TMB's 96*
1,3,5-Trimethylbenzene/ppb	< 1.4	< 1.4	< 1.4		
Vinyl Chloride/ppb	< 0.18	< 0.18	< 0.18	**0.2**	*0.02*
m&p-Xylene/ppb	< 0.69	< 0.69	< 0.69	**Total Xylenes 2000**	*Total Xylenes 400*
o-Xylene/ppb	< 0.63	< 0.63	< 0.63		

NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.
= = No Exceedences
(ppb) = parts per billion
(ppm) = parts per million
"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

A.1 Groundwater Analytical Table
(PAH)
Chapman Oil BRRTS# 02-68-215749

Well MW-1

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
09/22/14	0.208	0.108	0.83	0.026	<0.02	<0.019	<0.024	<0.027	*0.045*	<0.028	0.148	0.67	<0.027	0.41	0.044	0.149	1	0.61
12/16/14	SAMPLE BOTTLE RECEIVED BROKEN																	
ENFORCE MENT STANDARD = **ES – Bold**			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-2

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
09/22/14	<0.018	<0.02	<0.018	<0.023	<0.02	<0.019	<0.024	<0.027	<0.018	<0.028	<0.022	<0.022	<0.027	<0.021	<0.024	0.025	<0.018	<0.022
12/16/14	SAMPLE BOTTLE RECEIVED BROKEN																	
ENFORCE MENT STANDARD = **ES – Bold**			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-3

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
09/22/14	<0.018	<0.02	<0.018	<0.023	<0.02	<0.019	<0.024	<0.027	<0.018	<0.028	<0.022	<0.022	<0.027	<0.021	<0.024	<0.023	<0.018	<0.022
12/16/14	<0.018	<0.02	<0.018	<0.023	<0.02	<0.019	<0.024	<0.027	<0.018	<0.028	<0.022	<0.022	<0.027	<0.021	<0.024	<0.023	<0.018	<0.022
ENFORCE MENT STANDARD = **ES – Bold**			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
(Geoprobe)
Chapman Oil BRRTS# 02-68-215749

Sample ID	Date	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
G-1-W	08/12/13	*0.68*	1.02	<0.37	<1.2	2.17	1.12-1.98	<2.41
G-2-W	08/12/13	0.43	<0.82	<0.37	<1.2	1.39	<1.69	<2.41
G-3-W	08/12/13	*0.58*	<0.82	<0.37	<1.2	1.69	0.93-3.77	<2.41
G-4-W	08/12/13	*0.71*	<0.82	<0.37	<1.2	1.78	<1.69	<2.41
G-5-W	08/13/13	0.49	<0.82	<0.37	<1.2	1.27	<1.69	<2.41
ENFORCE MENT STANDARD ES = Bold		**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT PAL = Italics		*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
Chapman Oil BRRTS# 02-68-215749

Sampling Conducted on August 12, 2013

VOC's		Bold = Groundwater RCL	Underline & Bold = Direct Contact RCL	(Parenthesis & Bold) = Industrial Direct Contact RCL	Asteric * & Bold =Soil Saturation (C-sat) RCL
Sample ID#	G-1-4				
Sample Depth/ft.	16				
Solids Percent	83.8				
Lead/ppm	<1.5	27	400	(800)	= =
Diesel Range Organics/ppm	339	= =	= =		= =
Gasoline Range Organics/ppm	< 10	= =	= =		= =
Benzene/ppm	<0.0092	0.00512	1.6	(7.07)	1820*
Bromobenzene/ppm	<0.013	= =	342	(679)	= =
Bromodichloromethane/ppm	<0.027	0.000326	0.418	(1.83)	= =
Bromoform/ppm	<0.030	0.00233	25.4	(113)	= =
tert-Butylbenzene/ppm	<0.020	= =	183	(183)	183*
sec-Butylbenzene/ppm	<0.041	= =	145	(145)	145*
n-Butylbenzene/ppm	<0.026	= =	108	(108)	108*
Carbon Tetrachloride/ppm	<0.025	0.00388	0.916	(4.03)	= =
Chlorobenzene/ppm	<0.016	= =	370	(761)	761*
Chloroethane/ppm	<0.042	0.227	= =	= =	= =
Chloroform/ppm	<0.049	0.0033	0.454	(1.98)	= =
Chloromethane/ppm	<0.181	0.0155	159	(669)	= =
2-Chlorotoluene/ppm	<0.016	= =	= =	= =	= =
4-Chlorotoluene/ppm	<0.014	= =	= =	= =	= =
1,2-Dibromo-3-chloropropane/ppm	<0.048	0.000173	0.008	(0.092)	= =
Dibromochloromethane/ppm	<0.014	0.032	8.28	(38.9)	= =
1,4-Dichlorobenzene/ppm	<0.033	0.144	3.74	(16.4)	= =
1,3-Dichlorobenzene/ppm	<0.030	1.1528	297	(193)	297*
1,2-Dichlorobenzene/ppm	<0.038	1.168	376	(376)	376*
Dichlorodifluoromethane/ppm	<0.057	3.0863	126	(530)	= =
1,2-Dichloroethane/ppm	<0.036	0.00284	0.652	(2.87)	540*
1,1-Dichloroethane/ppm	<0.019	0.4834	5.06	(22.2)	= =
1,1-Dichloroethene/ppm	<0.021	0.00502	320	(1190)	1190*
cis-1,2-Dichloroethene/ppm	<0.024	0.0412	156	(2340)	= =
trans-1,2-Dichloroethene/ppm	<0.029	0.626	1560	(1850)	= =
1,2-Dichloropropane/ppm	<0.0095	0.00332	0.406	(1.78)	= =
2,2-Dichloropropane/ppm	<0.046	= =	191	(191)	527*
1,3-Dichloropropane/ppm	<0.021	= =	1490	(1490)	1490*
Di-isopropyl ether/ppm	<0.011	= =	2260	(2260)	2260*
EDB (1,2-Dibromoethane)/ppm	<0.020	0.0000282	0.05	(0.221)	= =
Ethylbenzene/ppm	<0.010	1.57	8.02	(35.4)	480*
Hexachlorobutadiene/ppm	<0.095	= =	1.63	(7.19)	= =
Isopropylbenzene/ppm	<0.025	= =	= =	= =	= =
p-Isopropyltoluene/ppm	<0.031	= =	162	(162)	162*
Methylene chloride/ppm	<0.057	0.00256	61.8	(1150)	= =
Methyl tert-butyl ether (MTBE)/ppm	<0.030	0.027	63.8	(282)	8870*
Naphthalene/ppm	<0.114	0.6582	5.52	(24.1)	= =
n-Propylbenzene/ppm	<0.024	= =	= =	= =	= =
1,1,2,2-Tetrachloroethane/ppm	<0.012	0.000156	0.81	(3.6)	= =
1,1,1,2-Tetrachloroethane/ppm	<0.023	0.0534	2.78	(12.3)	= =
Tetrachloroethene (PCE)/ppm	<0.049	0.00454	33	(145)	= =
Toluene/ppm	<0.020	1.11	818	(818)	818*
1,2,4-Trichlorobenzene/ppm	<0.079	0.408	24	(113)	= =
1,2,3-Trichlorobenzene/ppm	<0.129	= =	62.6	(934)	= =
1,1,1-Trichloroethane/ppm	<0.038	0.1402	= =	= =	= =
1,1,2-Trichloroethane/ppm	<0.023	0.00324	1.59	(7.01)	= =
Trichloroethene (TCE)/ppm	<0.028	0.00358	1.3	(8.41)	= =
Trichlorofluoromethane/ppm	<0.086	2.2387	1230	(1230)	1230*
1,2,4-Trimethylbenzene/ppm	<0.026	1.38	219	(219)	219*
1,3,5-Trimethylbenzene/ppm	<0.026		182	(182)	182*
Vinyl Chloride/ppm	<0.021	0.000138	0.07	(2.08)	= =
m&p-Xylene/ppm	<0.068	3.96	260	(260)	258*
o-Xylene/ppm	<0.031				

NS = not sampled
(ppm) = parts per billion
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
= = No Exceedences

NM = Not Measured
(ppm) = parts per million

A.2. Soil Analytical Results Table
Chapman Oil BRRTS# 02-68-215749

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppm)	DIRECT CONTACT PVOC & PAH COMBINED: Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5	U	08/12/13	0	<1.5	<10	<10	<0.025	<0.025	<0.025	<0.0221	**1.56**	0.060	<0.025	0.17	NS	0	0.0008	
G-1-2	8.0	U	08/12/13	0	NOT SAMPLED											NS			
G-1-3	12.0	U	08/12/13	0	NOT SAMPLED											NS			
G-1-4	16.0	U	08/12/13	0	<1.5	339	<10	<0.092	<0.010	<0.030	<0.114	<0.020	<0.026	<0.026	<0.099	SEE VOC SPREAD-SHEET			
G-1-5	20.0	U	08/12/13	0	NOT SAMPLED											NS			
G-1-6	24.0	U	08/12/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-1-7	28.0	U	08/12/13	0	NOT SAMPLED											NS			
G-1-8	32.0	S	08/12/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-1	3.5	U	08/12/13	0	11.3	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0018	3.7E-07
G-2-2	8.0	U	08/12/13	0	NOT SAMPLED											NS			
G-2-3	12.0	U	08/12/13	0	NOT SAMPLED											NS			
G-2-4	16.0	U	08/12/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-5	20.0	U	08/12/13	0	NOT SAMPLED											NS			
G-2-6	24.0	U	08/12/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-1	3.5	U	08/12/13	0	**31.6**	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-3-2	8.0	U	08/12/13	0	NOT SAMPLED											NS			
G-3-3	12.0	U	08/12/13	0	NOT SAMPLED											NS			
G-3-4	16.0	U	08/12/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-5	20.0	U	08/12/13	0	NOT SAMPLED											NS			
G-3-6	24.0	U	08/12/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-7	28.0	U	08/12/13	0	NOT SAMPLED											NS			
G-4-1	3.5	U	08/12/13	0	**88.2**	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.2205	
G-4-2	8.0	U	08/12/13	0	NOT SAMPLED											NS			
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**	**260**	-		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***	-			

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Bold & Asteric * = C-sat Exceedance
NS = Not
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
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.2. Soil Analytical Results Table
Chapman Oil BRRTS# 02-68-215749

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppm)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-4-3	12.0	U	08/12/13	0	NOT SAMPLED											NS			
G-4-4	16.0	U	08/12/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-5	20.0	U	08/12/13	0	NOT SAMPLED											NS			
G-4-6	24.0	U	08/12/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-7	28.0	U	08/12/13	0	NOT SAMPLED											NS			
G-5-1	3.5	U	08/13/13	0	**32.2**	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0011	1.9E-07
G-5-2	8.0	U	08/13/13	0	NOT SAMPLED											NS			
G-5-3	12.0	U	08/13/13	0	NOT SAMPLED											NS			
G-5-4	16.0	U	08/13/13	0	NS	11	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-5	20.0	U	08/13/13	0	NOT SAMPLED											NS			
G-5-6	24.0	U	08/13/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-7	28.0	U	08/13/13	0	NOT SAMPLED											NS			
G-6-1	3.5	U	08/13/13	0	**145**	<10	<10	**0.050**	0.115	<0.025	<22.1	0.370	0.760	0.400	1.44	NS	**1**	0.3760	1.6E-06
G-6-2	8.0	U	08/13/13	0	NOT SAMPLED											NS			
G-6-3	12.0	U	08/13/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-6-4	16.0	U	08/13/13	0	NOT SAMPLED											NS			
G-6-5	20.0	U	08/13/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-1	3.5	U	08/13/13	0	**196**	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.4913	2.3E-07
G-7-2	8.0	U	08/13/13	0	NOT SAMPLED											NS			
G-7-3	12.0	U	08/13/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-4	16.0	U	08/13/13	0	NOT SAMPLED											NS			
G-7-5	20.0	U	08/13/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-8-1	3.5	U	08/13/13	0	**66.2**	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.1655	
G-8-2	8.0	U	08/13/13	0	NOT SAMPLED											NS			
G-8-3	12.0	U	08/13/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-8-4	16.0	U	08/13/13	0	NOT SAMPLED											NS			
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**	**260**	-		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***	-			

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A.2. Soil Analytical Results Table
Chapman Oil BRRTS# 02-68-215749

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppm)	DIRECT CONTACT PVOC & PAH COMBINED: Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-8-5	20.0	U	08/13/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-9-1	3.5	U	08/13/13	0	2.9	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-9-2	8.0	U	08/13/13	0	NOT SAMPLED											NS			
G-9-3	12.0	U	08/13/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-9-4	16.0	U	08/13/13	0	NOT SAMPLED											NS			
G-9-5	20.0	U	08/13/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-10-1	3.5	U	08/13/13	0	26.0	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0017	3.2E-07
G-10-2	8.0	U	08/13/13	0	NOT SAMPLED											NS			
G-10-3	12.0	U	08/13/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-10-4	16.0	U	08/13/13	0	NOT SAMPLED											NS			
G-10-5	20.0	U	08/13/13	0	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
B-1-1	3.5	U	08/12/14	0	NOT SAMPLED											NS			
B-1-2	8.0	U	08/12/14	8	NOT SAMPLED											TCLP LEAD <0.45 TCLP BENZENE <0.05			
B-1-3	12.0	U	08/12/14	0	NOT SAMPLED											NS			
B-1-4	16.0	U	08/12/14	NO RECOVERY															
B-3-1	3.5	U	08/12/14	4	NOT SAMPLED											NS			
B-3-2	8.0	U	08/12/14	8	NOT SAMPLED											NS			
B-3-3	12.0	U	08/12/14	12	NOT SAMPLED											NS			
B-3-4	16.0	U	08/12/14	16	NOT SAMPLED											NS			
B-3-5	18.0	U	08/12/14	NO RECOVERY															
MW-1-1	3.5	U	08/12/14	0	NOT SAMPLED											NS			
MW-1-2	8.0	U	08/12/14	0	NOT SAMPLED											NS			
MW-1-3	12.0	U	08/12/14	0	NOT SAMPLED											NS			
MW-1-4	16.0	U	08/12/14	0	NOT SAMPLED											NS			
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**	**260**	-		**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***	-			

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GRO = Gasoline Range Organics
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A.2. Soil Analytical Results Table
Chapman Oil BRRTS# 02-68-215749

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppm)	DIRECT CONTACT PVOC & PAH COMBINED: Exeedance Count	Hazard Index	Cumulative Cancer Risk
MW-2-1	3.5	U	08/12/14	0	NOT SAMPLED											NS			
MW-2-2	8.0	U	08/12/14	0	NOT SAMPLED											NS			
MW-2-3	12.0	U	08/12/14	0	NOT SAMPLED											NS			
MW-2-4	16.0	U	08/12/14	NO RECOVERY															
MW-2-5	18.0	U	08/12/14	0	NOT SAMPLED											NS			
MW-2-6	24.0	U	08/12/14	0	NOT SAMPLED											NS			
MW-3-1	3.5	U	08/12/14	0	NOT SAMPLED											NS			
MW-3-2	8.0	U	08/12/14	0	NOT SAMPLED											NS			
MW-3-3	12.0	U	08/12/14	0	NOT SAMPLED											NS			
MW-3-4	16.0	U	08/12/14	0	NOT SAMPLED											NS			
MW-3-5	18.0	U	08/12/14	0	NOT SAMPLED											NS			
MW-3-6	24.0	U	08/12/14	0	NOT SAMPLED											NS			
MW-3-7	28.0	U	08/12/14	NO RECOVERY															
MW-3-8	32.0	S	08/12/14	0	NOT SAMPLED											NS			
MW-3-9	37.0	U	08/12/14	0	NOT SAMPLED											NS			
HA-1	1.5	U	08/12/14	0	NOT SAMPLED											NS	0	0.0029	5.9E-07
HA-2	1.5	U	08/12/14	0	NOT SAMPLED											NS	1	0.0233	5.2E-06
HA-3	1.5	U	08/12/14	0	NOT SAMPLED											NS	3	0.0563	1.3E-05
HA-4	1.5	U	08/12/14	0	NOT SAMPLED											NS	0	0.0052	8.8E-07
HA-5	1.5	U	08/12/14	0	NOT SAMPLED											NS	0	0.0066	1.3E-06
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**	**260**	-		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***	-			

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A.2. Soil Analytical Results Table
(PAH)
Chapman Oil BRRTS# 02-68-215749

																					DIRECT CONTACT PVOC & PAH COMBINED		
Sample	Depth (feet)	Saturation U/S	Date	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)	Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5	U	08/12/13	<0.0218	<0.0192	<0.0195	<0.0229	<0.0174	<0.0196	<0.0227	<0.0216	<0.0181	<0.0223	<0.0211	<0.0222	<0.0239	<0.0207	0.0296	<0.0221	<0.0224	<0.0231	0	0.0008	
G-2-1	3.5	U	08/12/13	<0.0218	<0.0192	<0.0195	0.032	0.0311	0.057	0.0298	<0.0216	0.041	<0.0223	0.038	<0.0222	0.0245	<0.0207	<0.0206	<0.0221	<0.0224	0.047	0	0.0018	3.7E-07
G-3-1	3.5	U	08/12/13	<21.8	<19.2	0.0294	<0.0229	<0.0174	<0.0196	<0.0227	<0.0216	<0.0181	<0.0223	<0.0211	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	<0.0231	0		
G-4-1	3.5	U	08/12/13	<0.0218	<0.0192	<0.0195	<0.0229	<0.0174	<0.0196	<0.0227	<0.0216	<0.0181	<0.0223	<0.0211	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	<0.0231	0	0.2205	
G-5-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	<0.0229	0.0188	0.033	0.0284	<0.0216	0.0242	<0.0223	0.0293	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	0.0282	0	0.0011	1.9E-07 **
G-6-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	0.105	**0.138**	0.225	0.086	0.079	0.129	<0.0223	0.129	<0.0222	0.073	<0.0207	0.0289	<0.0221	0.047	0.131	1	0.3760	1.6E-06
G-7-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	<0.0229	0.0237	0.0247	0.033	<0.0216	0.0205	<0.0223	<0.0211	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	<0.0231	0	0.4913	2.3E-07
G-8-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	<0.0229	<0.0174	<0.0196	<0.0227	<0.0216	<0.0181	<0.0223	<0.0211	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	<0.0231	0	0.1655	
G-9-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	<0.0229	<0.0174	<0.0196	<0.0227	<0.0216	<0.0181	<0.0223	<0.0211	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	<0.0231	0		
G-10-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	0.0284	0.0285	0.049	0.0269	0.0248	0.036	<0.0223	0.056	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	0.049	0	0.0017	3.2E-07
HA-1	1.5	U	08/12/14	<0.0211	<0.0195	<0.0185	0.038	0.050	0.082	0.067	0.037	0.051	<0.0224	0.081	<0.020	0.049	<0.0195	<0.0204	<0.0211	<0.0247	0.069	0	0.0029	5.9E-07
HA-2	1.5	U	08/12/14	0.032	0.037	0.089	0.330	**0.400**	**0.620**	0.350	0.252	**0.450**	0.068	0.960	0.033	0.288	<0.0195	<0.0204	<0.0211	0.500	0.750	1	0.0233	5.2E-06 **
HA-3	1.5	U	08/12/14	<0.0211	0.201	0.147	0.720	**0.980**	**1.53**	0.850	0.450	**0.900**	**0.196**	1.37	0.027	0.690	<0.0195	<0.0204	<0.0211	0.440	1.16	3	0.0563	**1.3E-05**
HA-4	1.5	U	08/12/14	<0.0211	0.0223	0.019	0.069	0.075	0.129	0.072	0.039	0.093	<0.0224	0.147	<0.020	0.056	<0.0195	0.0215	<0.0211	0.075	0.133	0	0.0052	8.8E-07
HA-5	1.5	U	08/12/14	<0.0211	<0.0195	0.045	0.119	0.112	0.176	0.084	0.071	**0.150**	<0.0224	0.289	<0.020	0.070	<0.0195	<0.0204	<0.0211	0.150	0.252	0	0.0066	1.3E-06
G-11-1	1.0	U	07/12/16	0.0215	0.266	0.273	**1.27**	**1.38**	**1.86**	1.02	0.66	**1.47**	**0.229**	2.29	0.034	1.02	<0.0143	<0.0119	<0.0122	**0.74**	2.09	4	0.0797	**1.8E-05**
G-11-2	3.5	U	07/12/16	<0.0135	0.069	0.06	0.36	**0.42**	**0.58**	0.36	0.237	**0.43**	0.063	0.69	<0.0135	0.33	<0.0143	<0.0119	<0.0122	0.156	0.61	1	0.0242	5.3E-06 **
G-12-1	1.0	U	07/12/16	0.017	0.116	0.142	0.67	**0.99**	**1.5**	1.0	0.50	**0.92**	**0.186**	1.55	0.0159	0.95	0.0145	0.0173	0.0164	0.34	1.35	3	0.0572	**1.3E-05**
G-12-2	3.5	U	07/12/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.038	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126			
G-13-1	1.0	U	07/12/16	<0.0135	<0.012	<0.0124	0.0284	0.026	0.041	0.0249	0.0262	0.034	<0.0142	0.055	<0.0135	0.0182	<0.0143	<0.0119	<0.0122	0.0138	0.051	0	0.0015	3.1E-07
G-13-2	3.5	U	07/12/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.038	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126			
G-14-1	1.0	U	07/12/16	<0.0135	0.069	0.049	0.41	**0.33**	0.46	0.233	0.161	**0.43**	0.051	0.66	<0.0135	0.221	0.05	0.052	0.0221	0.132	0.72	1	0.0196	4.3E-06 **
G-14-2	3.5	U	07/12/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.038	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126			
G-15-1	1.0	U	07/12/16	<0.0135	0.033	0.032	0.192	**0.181**	0.261	0.139	0.117	**0.234**	0.0152	0.38	<0.0135	0.128	0.029	0.0235	0.018	0.102	0.37	1	0.0107	2.2E-06 **
G-15-2	3.5	U	07/12/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.038	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126			
G-16-1	1.0	U	07/12/16	<0.0135	0.093	0.131	0.67	**0.65**	**0.89**	0.42	0.314	**0.80**	0.099	1.18	<0.0135	0.43	0.094	0.063	0.0193	0.34	1.04	1	0.0380	8.3E-06 **
G-16-2	3.5	U	07/12/16	<0.0135	0.065	0.073	0.410	**0.440**	**0.610**	0.309	0.271	**0.520**	0.070	0.780	<0.0135	0.301	0.0149	0.0151	<0.0122	0.135	0.680	1	0.0255	5.6E-06 **
G-17-1	1.0	U	07/12/16	<0.0135	0.0237	0.0233	0.134	**0.166**	0.217	0.13	0.104	**0.196**	0.0259	0.286	<0.0135	0.116	0.0189	0.0189	<0.0122	0.110	0.279	1	0.0097	2.1E-06 **
G-17-2	3.5	U	07/12/16	<0.0135	0.0214	0.028	0.123	**0.146**	0.196	0.112	0.080	**0.180**	0.0229	0.261	<0.0135	0.102	<0.0143	<0.0119	<0.0122	0.082	0.272	1	0.0085	1.8E-06 **
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 =Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
NS = Not Sampled
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
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)
** = Direct Contact Fall-Out Due to cPAH Calculator

A.2. Soil Analytical Results Table
(PAH)
Chapman Oil BRRTS# 02-68-215749

																					DIRECT CONTACT PVOC & PAH COMBINED		
Sample	Depth (feet)	Saturation U/S	Date	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)	Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-18-1	1.0	U	07/12/16	<0.0135	0.048	0.078	0.360	**0.440**	**0.66**	0.380	0.255	**0.510**	0.071	0.840	<0.0135	0.340	0.0206	0.0244	<0.0122	0.215	0.720	**1**	0.0256	5.7E-06 **
G-18-2	3.5	U	07/12/16	<0.0135	0.034	0.042	0.239	**0.271**	0.390	0.226	0.182	**0.330**	0.043	0.510	<0.0135	0.201	<0.0143	<0.0119	<0.0122	0.125	0.450	**1**	0.0157	3.5E-06 **
G-19-1	1.0	U	07/12/16	<0.0135	0.046	0.045	0.272	**0.340**	**0.480**	0.286	0.209	**0.390**	0.059	0.60	<0.0135	0.260	<0.0143	<0.0119	<0.0122	0.119	0.50	**1**	0.0196	4.4E-06 **
G-19-2	3.5	U	07/12/16	<0.0135	0.09	0.041	0.179	**0.254**	0.360	0.233	0.133	**0.245**	0.046	0.301	<0.0135	0.212	<0.0143	<0.0119	<0.0122	0.069	0.288	**1**	0.0146	3.3E-06 **
G-20-1	1.0	U	07/12/16	0.108	0.450	0.740	**2.23**	**(2.33)**	**3.02**	1.72	0.990	**2.54**	**0.390**	4.30	0.146	**1.73**	<0.0143	<0.0119	0.0203	2.04	3.50	**5**	0.1359	**3.0E-05**
G-20-2	3.5	U	07/12/16	<0.0135	0.202	0.163	0.760	**0.86**	**1.15**	0.680	0.470	**0.990**	**0.137**	1.57	0.0184	0.640	<0.0143	<0.0119	<0.0122	0.460	1.40	**2**	0.0498	**1.1E-05**
G-21-1	1.0	U	07/12/16	<0.0135	<0.012	0.064	0.0137	<0.0113	0.0134	0.0261	<0.0117	<0.038	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126	0	0.0000	2.4E-08
G-21-2	3.5	U	07/12/16	<0.0135	0.216	0.244	0.025	0.0149	0.0283	0.146	0.0149	0.0214	0.0188	0.035	<0.0135	0.050	0.032	0.055	0.0281	0.042	0.037	0	0.0013	3.9E-07
G-22-1	1.0	U	07/12/16	<0.0135	0.0171	0.0204	0.037	0.037	0.057	0.057	0.0308	0.048	<0.0142	0.074	<0.0135	0.04	<0.0143	0.0135	<0.0122	0.0223	0.067	0	0.0022	4.4E-07
G-22-2	3.5	U	07/12/16	<0.0135	0.0164	0.0253	0.053	0.058	0.081	0.069	0.043	0.058	<0.0142	0.120	<0.0135	0.056	<0.0143	<0.0119	<0.0122	0.054	0.109	0	0.0034	6.3E-07
G-23-1	1.0	U	02/16/17	<0.0151	<0.0159	0.0176	0.04	0.045	0.088	0.054	0.033	0.041	<0.0078	0.082	<0.0179	0.041	<0.0203	<0.0113	<0.0153	0.0305	0.069	0	0.0026	5.4E-07
G-23-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	<0.0085	<0.0113	<0.0069	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-24-1	1.0	U	02/16/17	<0.0151	0.0172	0.035	0.127	**0.141**	0.263	0.121	0.077	**0.148**	0.0231	0.301	<0.0179	0.097	<0.0203	<0.0113	<0.0153	0.124	0.256	**1**	0.0082	1.9E-06 **
G-24-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	<0.0085	<0.0113	<0.0069	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153			
G-25-1	1.0	U	02/16/17	<0.0151	0.063	0.052	0.36	**0.34**	**0.55**	0.24	0.148	**0.35**	0.058	0.53	<0.0179	0.199	0.0217	0.0215	<0.0153	0.137	0.57	**1**	0.0197	4.4E-06 **
G-25-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	0.0141	<0.0113	0.0097	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.0000	2.1E-08
G-26-1	1.0	U	02/16/17	<0.0151	0.048	0.037	0.279	**0.253**	0.42	0.181	0.113	**0.246**	0.042	0.40	<0.0179	0.153	<0.0203	0.0215	<0.0153	0.105	0.43	**1**	0.0147	3.3E-06 **
G-26-2	3.5	U	02/16/17	<0.0151	0.0173	0.0153	0.098	0.083	0.141	0.059	0.035	0.083	0.0147	0.138	<0.0179	0.05	<0.0203	<0.0113	<0.0153	0.036	0.154	0	0.0048	1.1E-06
G-27-1	1.0	U	02/16/17	<0.0151	0.02	0.0174	0.085	0.081	0.128	0.061	0.034	0.077	0.0131	0.141	<0.0179	0.047	<0.0203	<0.0113	<0.0153	0.064	0.164	0	0.0047	1.0E-06
G-27-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	<0.0085	<0.0113	<0.0069	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153			
G-28-1	1.0	U	02/16/17	<0.0151	<0.0159	<0.0109	0.0527	0.057	0.108	0.055	0.0266	0.054	0.0119	0.096	<0.0179	0.041	<0.0203	<0.0113	<0.0153	0.037	0.092	0	0.0033	7.8E-07
G-28-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	0.0116	<0.0113	0.0078	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.0000	1.7E-08
G-29-1	1.0	U	02/16/17	<0.0151	0.144	0.133	0.59	**0.64**	**1.05**	0.51	0.288	**0.53**	0.112	0.95	0.0292	0.44	<0.0203	<0.0113	<0.0153	0.40	0.86	**1**	0.0370	8.4E-06 **
G-29-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	0.0127	<0.0113	0.0111	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.0000	2.1E-08
G-30-1	1.0	U	02/16/17	<0.0151	0.0211	0.0278	0.147	**0.135**	0.242	0.097	0.063	0.127	0.0237	0.221	<0.0179	0.084	<0.0203	0.0195	<0.0153	0.101	0.205	**1**	0.0079	1.8E-06 **
G-30-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	0.074	0.065	0.124	0.05	0.0307	0.059	0.0137	0.099	<0.0179	0.044	<0.0203	<0.0113	<0.0153	0.043	0.094	0	0.0037	9.0E-07
G-31-1	1.0	U	02/16/17	<0.0151	0.0263	0.025	0.183	**0.206**	0.35	0.171	0.088	**0.186**	0.035	0.306	<0.0179	0.13	<0.0203	0.015	<0.0153	0.135	0.32	**1**	0.0119	2.7E-06 **
G-31-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	<0.0085	<0.0113	<0.0069	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153			
G-32-1	1.0	U	02/16/17	<0.0151	0.057	0.036	0.181	**0.221**	0.38	0.186	0.096	**0.179**	0.038	0.278	<0.0179	0.147	<0.0203	<0.0113	<0.0153	0.103	0.287	**1**	0.0127	2.9E-06 **
G-32-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	0.0219	0.02	0.037	0.0218	<0.0147	0.0142	<0.0078	0.0277	<0.0179	0.0175	<0.0203	<0.0113	<0.0153	<0.0111	0.0252	0	0.0011	2.4E-07
EX-1	1.0		09/25/18	0.058	0.0198	0.39	0.98	**0.82**	**1.26**	0.56	0.43	**0.94**	**0.116**	2.65	0.063	0.51	<0.0203	<0.0113	<0.0153	1.15	2.01	**3**	0.0485	**1.10E-05**
EX-2	3.0		09/25/18	<0.0151	<0.0159	<0.0109	0.0236	0.0162	0.0248	<0.0114	<0.0147	0.0158	<0.0078	0.0234	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	0.0222	0	0.0011	2.60E-07
EX-3	1.0		09/25/18	<0.0151	<0.0159	<0.0109	<0.016	<0.013	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
EX-4	3.0		09/25/18	<0.0151	0.0199	<0.0109	0.053	0.055	0.101	0.051	0.038	0.06	0.0092	0.081	<0.0179	0.038	<0.0203	<0.0113	<0.0153	0.0232	0.074	0	0.0033	7.30E-07
EX-5	1.0		09/25/18	<0.0151	0.037	0.037	0.233	**0.261**	0.41	0.204	0.158	**0.281**	0.045	0.50	<0.0179	0.175	<0.0203	<0.0113	<0.0153	0.107	0.42	**1**	0.0153	3.4E-06 **
EX-6	3.0		09/25/18	<0.0151	0.108	0.067	0.37	**0.48**	**0.73**	0.41	0.261	**0.42**	0.087	0.67	<0.0179	0.36	<0.0203	<0.0113	<0.0153	0.148	0.59	0	0.0277	6.2E-06 **
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 =Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
NS = Not Sampled
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
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)
** = Direct Contact Fall-Out Due to cPAH Calculator

A.3. Residual Soil Analytical Results Table
(cPAH)
Chapman Oil BRRTS# 02-68-215749

Sample	Depth (feet)	Saturation U/S	Date	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)	DIRECT CONTACT (Cumulative) cPAH Cancer Risk	DIRECT CONTACT Cumulative Hazard Index
G-6-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	0.105	**0.138**	0.225	0.086	0.079	0.129	<0.0223	0.129	<0.0222	0.073	<0.0207	0.0289	<0.0221	0.047	0.131	1.8E-06 **	0.0081
G-14-1	1.0	U	07/12/16	<0.0135	0.069	0.049	0.41	**0.33**	0.46	0.233	0.161	**0.43**	0.051	0.66	<0.0135	0.221	0.05	0.052	0.0221	0.132	0.72	4.3E-06 **	0.0196
G-15-1	1.0	U	07/12/16	<0.0135	0.033	0.032	0.192	**0.181**	0.261	0.139	0.117	**0.234**	0.0152	0.38	<0.0135	0.128	0.029	0.0235	0.018	0.102	0.37	2.2E-06 **	0.0108
G-17-1	1.0	U	07/12/16	<0.0135	0.0237	0.0233	0.134	**0.166**	0.217	0.13	0.104	**0.196**	0.0259	0.286	<0.0135	0.116	0.0189	0.0189	<0.0122	0.110	0.279	2.1E-06 **	0.0098
G-17-2	3.5	U	07/12/16	<0.0135	0.0214	0.028	0.123	**0.146**	0.196	0.112	0.080	**0.180**	0.0229	0.261	<0.0135	0.102	<0.0143	<0.0119	<0.0122	0.082	0.272	1.8E-06 **	0.0086
G-18-2	3.5	U	07/12/16	<0.0135	0.034	0.042	0.239	**0.271**	0.390	0.226	0.182	**0.330**	0.043	0.510	<0.0135	0.201	<0.0143	<0.0119	<0.0122	0.125	0.450	3.5E-06 **	0.0164
G-19-1	1.0	U	07/12/16	<0.0135	0.046	0.045	0.272	**0.340**	**0.480**	0.286	0.209	**0.390**	0.059	0.60	<0.0135	0.260	<0.0143	<0.0119	<0.0122	0.119	0.50	4.4E-06 **	0.0204
G-19-2	3.5	U	07/12/16	<0.0135	0.09	0.041	0.179	**0.254**	0.360	0.233	0.133	**0.245**	0.046	0.301	<0.0135	0.212	<0.0143	<0.0119	<0.0122	0.069	0.288	3.3E-06 **	0.0154
G-24-1	1.0	U	02/16/17	<0.0151	0.0172	0.035	0.127	**0.141**	0.263	0.121	0.077	**0.148**	0.0231	0.301	<0.0179	0.097	<0.0203	<0.0113	<0.0153	0.124	0.256	1.9E-06 **	0.0091
G-25-1	1.0	U	02/16/17	<0.0151	0.063	0.052	0.36	**0.34**	**0.55**	0.24	0.148	**0.35**	0.058	0.53	<0.0179	0.199	0.0217	0.0215	<0.0153	0.137	0.57	4.4E-06 **	0.0206
G-26-1	1.0	U	02/16/17	<0.0151	0.048	0.037	0.279	**0.253**	0.42	0.181	0.113	**0.246**	0.042	0.40	<0.0179	0.153	<0.0203	0.0215	<0.0153	0.105	0.43	3.3E-06 **	0.0156
G-30-1	1.0	U	02/16/17	<0.0151	0.0211	0.0278	0.147	**0.135**	0.242	0.097	0.063	0.127	0.0237	0.221	<0.0179	0.084	<0.0203	0.0195	<0.0153	0.101	0.205	1.8E-06 **	0.0088
G-31-1	1.0	U	02/16/17	<0.0151	0.0263	0.025	0.183	**0.206**	0.35	0.171	0.088	**0.186**	0.035	0.306	<0.0179	0.13	<0.0203	0.015	<0.0153	0.135	0.32	2.7E-06 **	0.0128
G-32-1	1.0	U	02/16/17	<0.0151	0.057	0.036	0.181	**0.221**	0.38	0.186	0.096	**0.179**	0.038	0.278	<0.0179	0.147	<0.0203	<0.0113	<0.0153	0.103	0.287	2.9E-06 **	0.0136
EX-1	1.0	U	09/25/18	0.058	0.0198	0.39	0.98	**0.82**	**1.26**	0.56	0.43	**0.94**	**0.116**	2.65	0.063	0.51	<0.0203	<0.0113	<0.0153	1.15	2.01	**1.10E-05**	0.0485
EX-6	3.0	U	09/25/18	<0.0151	0.108	0.067	0.37	**0.48**	**0.73**	0.41	0.261	**0.42**	0.087	0.67	<0.0179	0.36	<0.0203	<0.0113	<0.0153	0.148	0.59	**6.2E-06**	0.0277
Groundwater RCL				---	---	**196.9492**	---	**0.47**	**0.4781**	---	---	**0.1442**	---	**88.8778**	**14.8299**	---	---	---	**0.6582**	---	**54.5455**		
Non-Industrial Direct Contact RCL				**3590**	---	**17900**	**1.14**	**0.115**	**1.15**	---	**11.5**	**115**	**0.115**	**2390**	**2390**	**1.15**	**17.6**	**239**	**5.52**	---	**1790**	**5.00E-06**	**1.00E+00**
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 =Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
NS = Not Sampled
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
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)
** = Direct Contact Fall-Out Due to cPAH Calculator

A.3. Residual Soil Analytical Results Table
(PVOC & Lead)
Chapman Oil BRRTS# 02-68-215749

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppm)	Individual Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5	U	08/12/13	0	<1.5	<10	<10	<0.025	<0.025	<0.025	<0.0221	**1.56**	0.060	<0.025	0.17	NS	0	0.0008	
G-3-1	3.5	U	08/12/13	0	**31.6**	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-4-1	3.5	U	08/12/13	0	**88.2**	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.2205	
G-5-1	3.5	U	08/13/13	0	**32.2**	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0011	1.9E-07
G-6-1	3.5	U	08/13/13	0	**145**	<10	<10	**0.050**	0.115	<0.025	<22.1	0.370	0.760	0.400	1.44	NS	0	0.3760	1.6E-06
G-7-1	3.5	U	08/13/13	0	**196**	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.4913	2.3E-07
G-8-1	3.5	U	08/13/13	0	**66.2**	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.1655	
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**	**260**	-		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

A.3. Residual Soil Analytical Results Table
(cPAH)
Chapman Oil BRRTS# 02-68-215749

																			DIRECT CONTACT PAH	
Sample	Depth (feet)	Saturation U/S	Date	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)	Hazard Index	Cumulative cPAH Cancer Risk
EX-1	1.0	U	09/25/18	0.058	0.0198	0.39	0.98	**0.82**	**1.26**	0.56	0.43	**0.94**	**0.116**	2.65	0.063	0.51	<0.0203	<0.0113	<0.0153	1.15	2.01	0.0485	**1.10E-05**
EX-5	1.0	U	09/25/18	<0.0151	0.037	0.037	0.233	**0.261**	0.41	0.204	0.158	**0.281**	0.045	0.50	<0.0179	0.175	<0.0203	<0.0113	<0.0153	0.107	0.42	0.0153	3.40E-06
EX-6	3.0	U	09/25/18	<0.0151	0.108	0.067	0.37	**0.48**	**0.73**	0.41	0.261	**0.42**	0.087	0.67	<0.0179	0.36	<0.0203	<0.0113	<0.0153	0.148	0.59	0.0277	**6.2E-06**
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**	**5.00E-06**
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 =Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance

U = unsaturated (based on all time low water table per WDNR)
S = saturated (based on all time low water table per WDNR)

(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
PID = Photoionization Detector

A.6 Water Level Elevations
Chapman Oil BRRTS# 02-68-215749
Eagle, Wisconsin

	MW-1	MW-2	MW-3
Ground Surface (feet msl)	944.90	944.90	943.00
PVC top (feet msl)	944.50	947.73	946.14
Well Depth (feet)	35	35	37
Top of screen (feet msl)	919.90	919.90	916.00
Bottom of screen (feet msl)	909.90	909.90	906.00
Depth to Water From Top of PVC (feet)			
09/22/14	29.96	33.47	31.76
12/16/14	31.35	34.96	33.13
Depth to Water From Ground Surface (feet)			
09/22/14	30.36	30.64	28.62
12/16/14	31.75	32.13	29.99
Groundwater Elevation (feet msl)			
09/22/14	914.54	914.26	914.38
12/16/14	913.15	912.77	913.01

: Elevations are presented in feet mean sea level (msl).

A.7 Other
Groundwater NA Indicator Results
Chapman Oil BRRTS# 02-68-215749

Well MW-1

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
09/22/14	2.24	6.82	24	13.2	1366	0.18	22.6	0.4	**1210**
12/16/14	1.96	6.48	93	9.8	1017	NS	NS	NS	NS
ENFORCE MENT STANDARD = **ES – Bold**						**10**	-	-	**300**
PREVENTIVE ACTION LIMIT = *PAL - Italics*						*2*	-	-	*60*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-2

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
09/22/14	5.93	7.3	250	12.3	1357	*7.89*	38.6	<0.06	37.7
12/16/14	3.42	6.41	255	10.1	912	NS	NS	NS	NS
ENFORCE MENT STANDARD = **ES – Bold**						**10**	-	-	**300**
PREVENTIVE ACTION LIMIT = *PAL - Italics*						*2*	-	-	*60*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-3

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
09/22/14	3.91	6.64	202	13.4	701	*5.04*	34	0.07	51.6
12/16/14	4.39	4.35	304	9.7	844	NS	NS	NS	NS
ENFORCE MENT STANDARD = **ES – Bold**						**10**	-	-	**300**
PREVENTIVE ACTION LIMIT = *PAL - Italics*						*2*	-	-	*60*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

A.7 Other
Chapman Oil Bulk Plant
Slug Test Calculations

MW-1

	ft/s	cm/s	m/yr
K	5.85E-04	1.78E-02	5623.12
	sq ft/s	**sq cm/s**	
T	2.71E-03	2.52E+00	

MW-3

	ft/s	cm/s	m/yr
K	1.13E-04	3.44E-03	1086.18
	sq ft/s	**sq cm/s**	
T	9.51E-04	8.83E-01	

Date	Elv. (High)	Elv. (Low)	Distance (ft)	Hyd Grad (I)
9/22/2014	914.50	914.30	32	0.0062500
12/16/2014	913.10	912.80	35	0.0085714
Average				0.0074107

	K (m/yr)	I	n	Flow Velocity (m/yr)
MW-1	5623.121088	0.0074107	0.3	138.90448
MW-3	1086.175526	0.0074107	0.3	26.83112

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

B.3.d Monitoring Wells

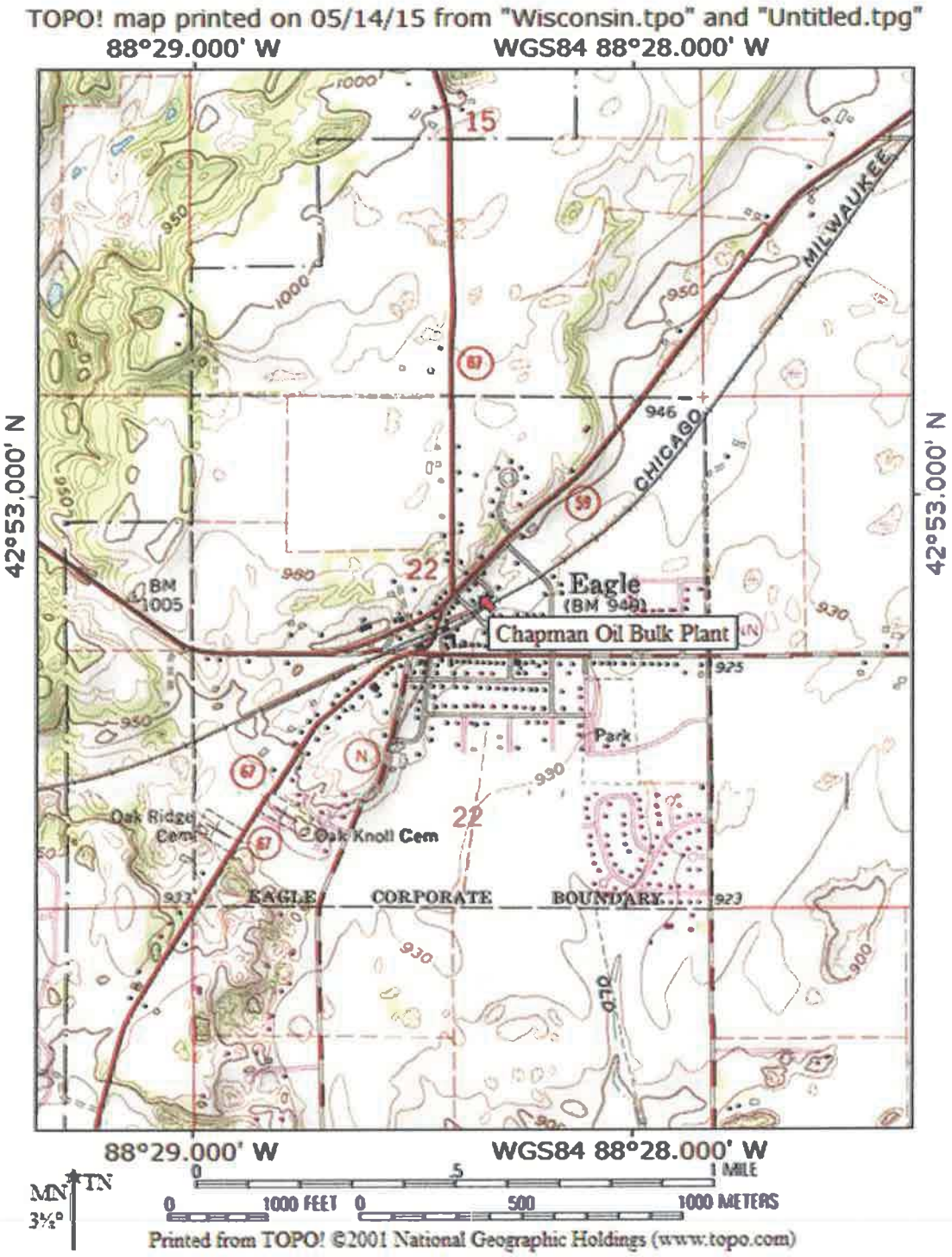
B.4 Vapor Maps and Other Media

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 – There were no structural impediments to the completion of the investigation or remediation.



B.1.a LOCATION MAP
CONTOUR INTERVAL 10 FEET
CHAPMAN OIL BULK PLANT – EAGLE, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM

B.I.b DETAILED SITE MAP

CHAPMAN OIL BULK PLANT

METCO
709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
Excellence through experience

EAGLE, WISCONSIN

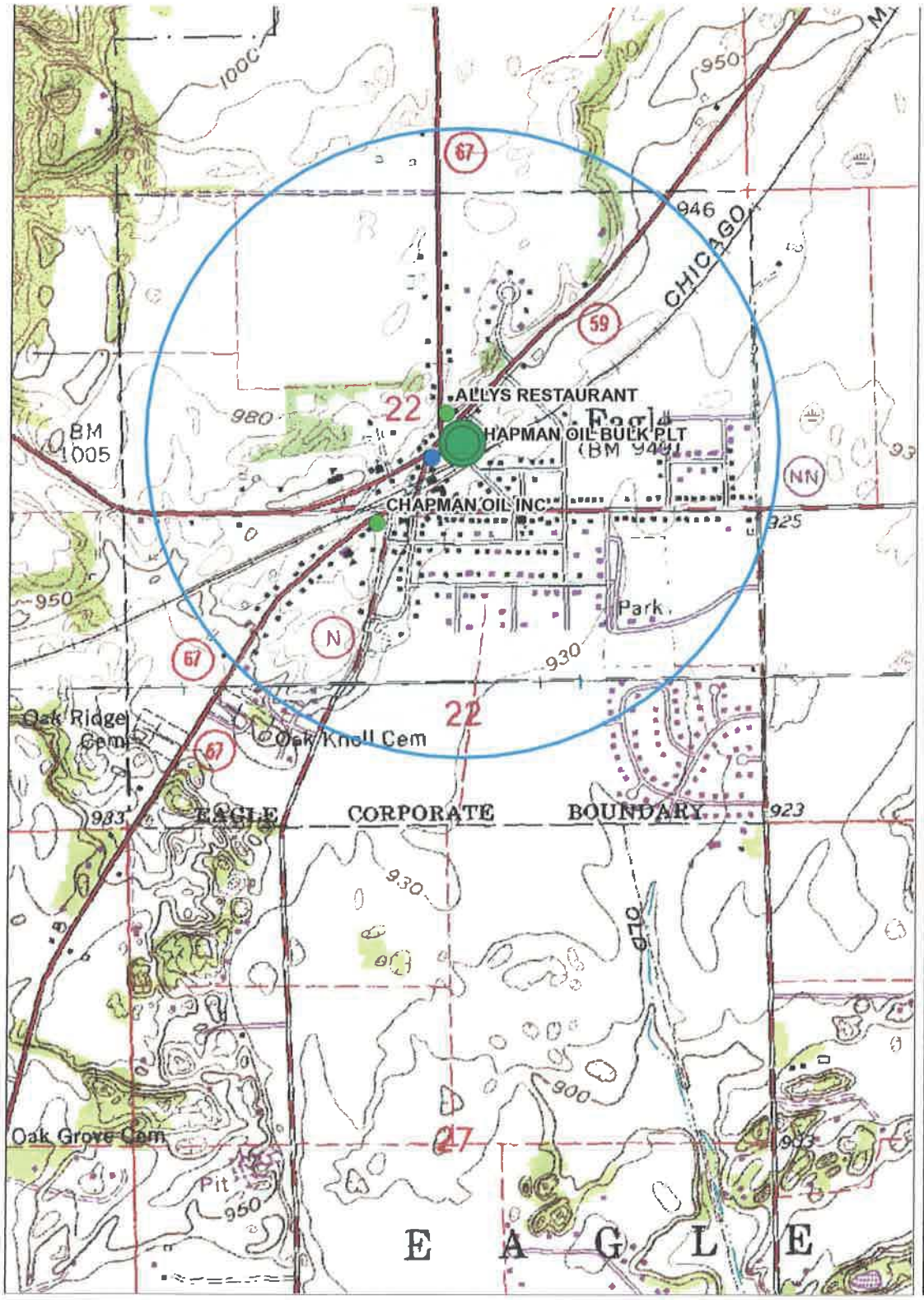
DRAWN BY: BK
DATE: 03/22/2017

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

SCALE:
1 INCH = 25 FEET

- ● - GEOPROBE BORING LOCATION
- ✕ - HAND AUGER BORING LOCATION
- ◐ - SOIL BORING LOCATION
- ◍ - MONITORING WELL LOCATION
- ⊗ - EXCAVATION CONFIRMATION SAMPLE LOCATION
- — — — - PROPERTY BOUNDARY
- — · — - WATER LINE
- — · · · — - STORM SEWER
- .... - BURIED PHONE/FIBER OPTIC
- ☰ - OVERHEAD ELECTRIC
- ▨ - AREA OF EXCAVATION

B.1.c RR Site Map



Legend

- Open Site
- Closed Site
- Continuing Obligations Apply
- Facility-wide Site

0.5 0 Distance / 2 0.5 Miles

1: 15,840

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 aregarding accuracy, applicability for a particular use, completemenss, 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

02-68-215749
CHAPMAN OIL BULK PLANT

B.2.a SOIL CONTAMINATION
CHAPMAN OIL BULK PLANT

EAGLE, WISCONSIN

METCO
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LACROSSE, WI 54603
Tel: (608) 781-8879
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Excellence through experience

DRAWN BY: BK
DATE: 03/22/2017

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

B.2.b RESIDUAL SOIL CONTAMINATION (PVOC & LEAD)

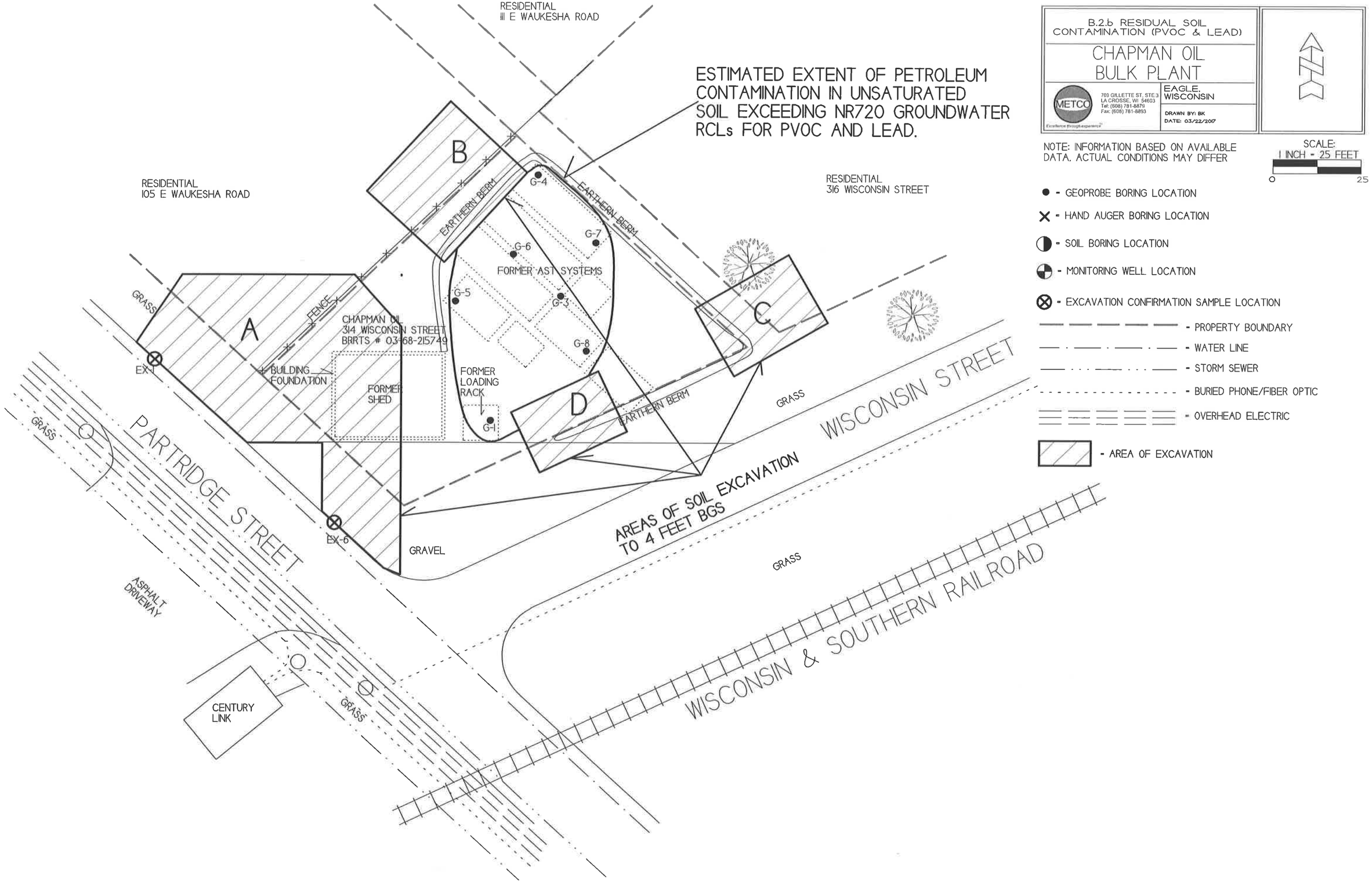
CHAPMAN OIL BULK PLANT

METCO
709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
Excellence through experience

EAGLE, WISCONSIN

DRAWN BY: BK
DATE: 03/22/2017

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



B.2.b RESIDUAL SOIL CONTAMINATION (PAHs)

CHAPMAN OIL BULK PLANT

METCO
709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
Excellence through experience

EAGLE, WISCONSIN

DRAWN BY: BK
DATE: 03/22/2017

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

SCALE:
1 INCH = 25 FEET
0 25

- ● - GEOPROBE BORING LOCATION
- ✕ - HAND AUGER BORING LOCATION
- ◐ - SOIL BORING LOCATION
- ⊕ - MONITORING WELL LOCATION
- ⊗ - EXCAVATION CONFIRMATION SAMPLE LOCATION
- — — — — - PROPERTY BOUNDARY
- —·—·— - WATER LINE
- —···— - STORM SEWER
- - - - - - - BURIED PHONE/FIBER OPTIC
- ═══ - OVERHEAD ELECTRIC
- ▨ - AREA OF EXCAVATION

B.3.a.1 GEOLOGIC CROSS SECTION

CHAPMAN OIL BULK PLANT

METCO
700 GILLETTE ST. STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893

EAGLE, WISCONSIN

DRAWN BY: BK
DATE: 03/22/2017

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

SCALE:
1 INCH = 25 FEET

B.3.a.2 GEOLOGIC CROSS SECTION (CLOSE UP)

CHAPMAN OIL BULK PLANT

METCO
709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
Excellence through experience

EAGLE, WISCONSIN

DRAWN BY: BK
DATE: 03/22/2017

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

HORIZONTAL SCALE:
1 INCH = 15 FEET
0 15

NT OF PETROLEUM
I UNSATURATED
NR720 GROUNDWATER
LEAD.

RESIDENTIAL
105 E WAUKESHA ROAD

RESIDENTIAL
316 WISCONSIN STREET

CHAPMAN OIL
314 WISCONSIN STREET
BRRTS # 03-68-215749

FORMER AST SYSTEMS

FORMER LOADING RACK

FORMER SHED

BUILDING FOUNDATION

EARTHERN BERM

EARTHERN BERM

EARTHERN BERM

FENCE

GRASS

GRAVEL

ASPHALT DRIVEWAY

PARTRIDGE STREET

A

B

C

D

G-1 G-2 G-3 G-4 G-5 G-6 G-7 G-8 G-9 G-10 G-11 G-12 G-13 G-14 G-15 G-16 G-17 G-18 G-19 G-20 G-21 G-22 G-23 G-24 G-25 G-26 G-27 G-28 G-29 G-30 G-31 G-32

B-1 B-3

MW-1 MW-2 MW-3

HA-1 HA-2 HA-3 HA-4 HA-5

EX-1 EX-2 EX-3 EX-4 EX-5 EX-6

AREAS OF SOIL EXCAVATION TO 4 FEET BGS

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 PAL VALUES

ATED SOIL
EEDING THE

= GEOPROBE BORING LOCATION
= HAND AUGER BORING LOCATION
= SOIL BORING LOCATION
= MONITORING WELL LOCATION
= EXCAVATION CONFIRMATION SAMPLE LOCATION
= PROPERTY BOUNDARY
= WATER LINE
= STORM SEWER
= BURIED PHONE/FIBER OPTIC
= OVERHEAD ELECTRIC
= AREA OF EXCAVATION

B.3.a.3 GEOLOGIC CROSS SECTION

CHAPMAN OIL BULK PLANT

METCO
709 GILLETTE ST. STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
Excellence through experience℠

EAGLE, WISCONSIN

DRAWN BY: JZ
DATE: 02/04/2015

HORIZONTAL SCALE:
1 INCH = 15 FEET
0 — 15

VERTICAL SCALE:
1 INCH = 7.5 FEET
0 — 7.5

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).

NOTE: ONLY SOIL EXCEEDANCES HAVE BEEN DOCUMENTED ON THE MAP. SEE DATA TABLES AND/OR LABORATORY REPORTS FOR ALL RESULTS

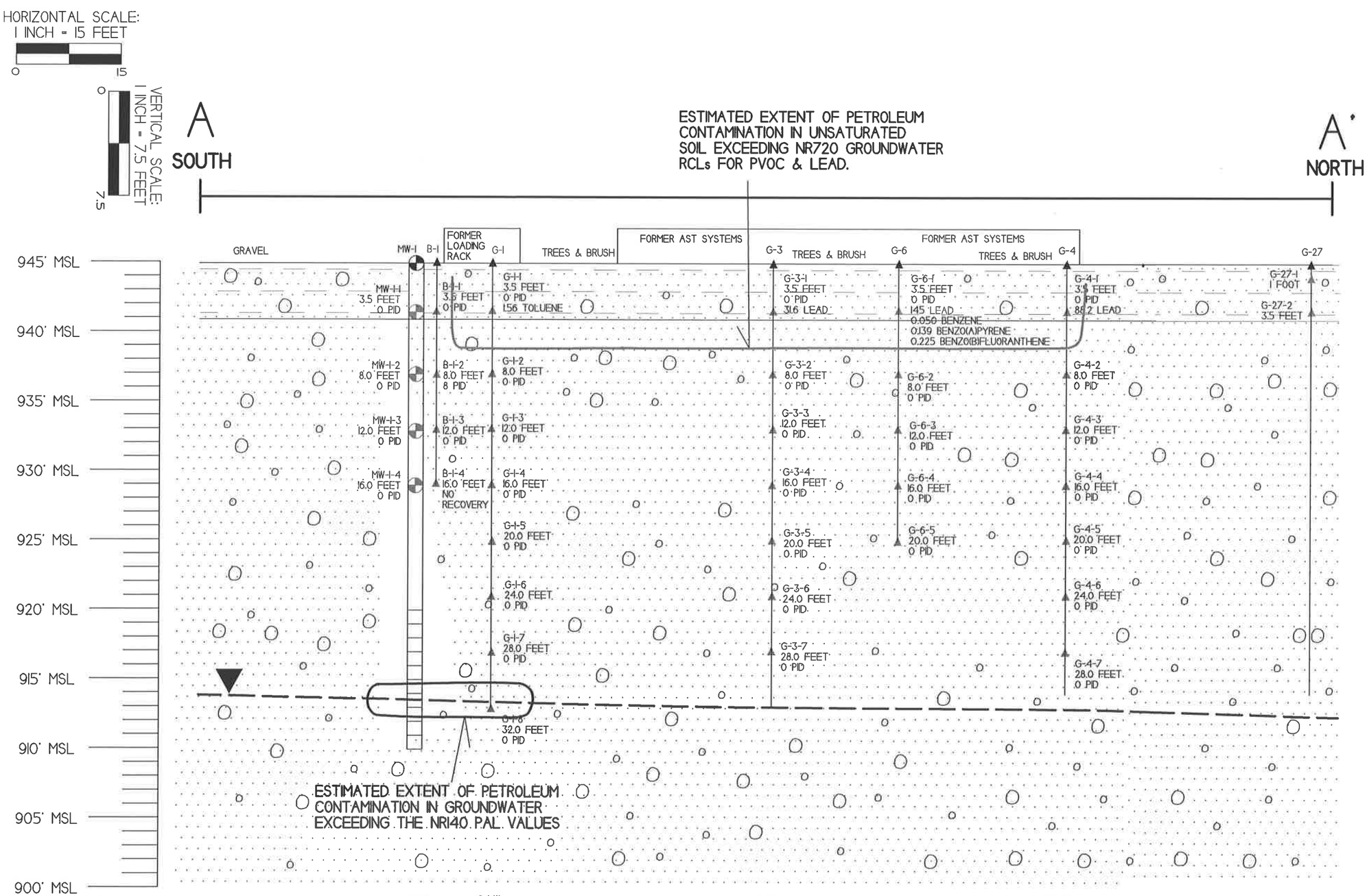
NOTE: SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE:
GEOPROBE PROJECT - (08/12-13/2013)
DRILLING PROJECT - (08/12-13/2014)
ROUND 1 GROUNDWATER SAMPLING - (09/22/2014)
ROUND 2 GROUNDWATER SAMPLING - (12/16/2014)

PID = PHOTO IONIZATION DETECTOR
PVOC = PETROLEUM VOLATILE ORGANIC COMPOUNDS
B = BENZENE
E = ETHYLBENZENE
N = NAPHTHALENE
T = TOLUENE
TMB = TRIMETHYLBENZENE
X = XYLENE

▲ = GEOPROBE BORING LOCATION
⊕ = MONITORING WELL LOCATION
▲ = GEOPROBE BORING SAMPLING LOCATION
⊕ = MONITORING WELL SAMPLING LOCATION
▼ = WATERTABLE

BROWN TO GRAY FINE TO COARSE GRAINED SAND TO SILTY SAND WITH SOME GRAVEL AND COBBLES (TILL)

TAN FINE TO COARSE GRAINED SAND WITH GRAVEL AND COBBLES (TILL)

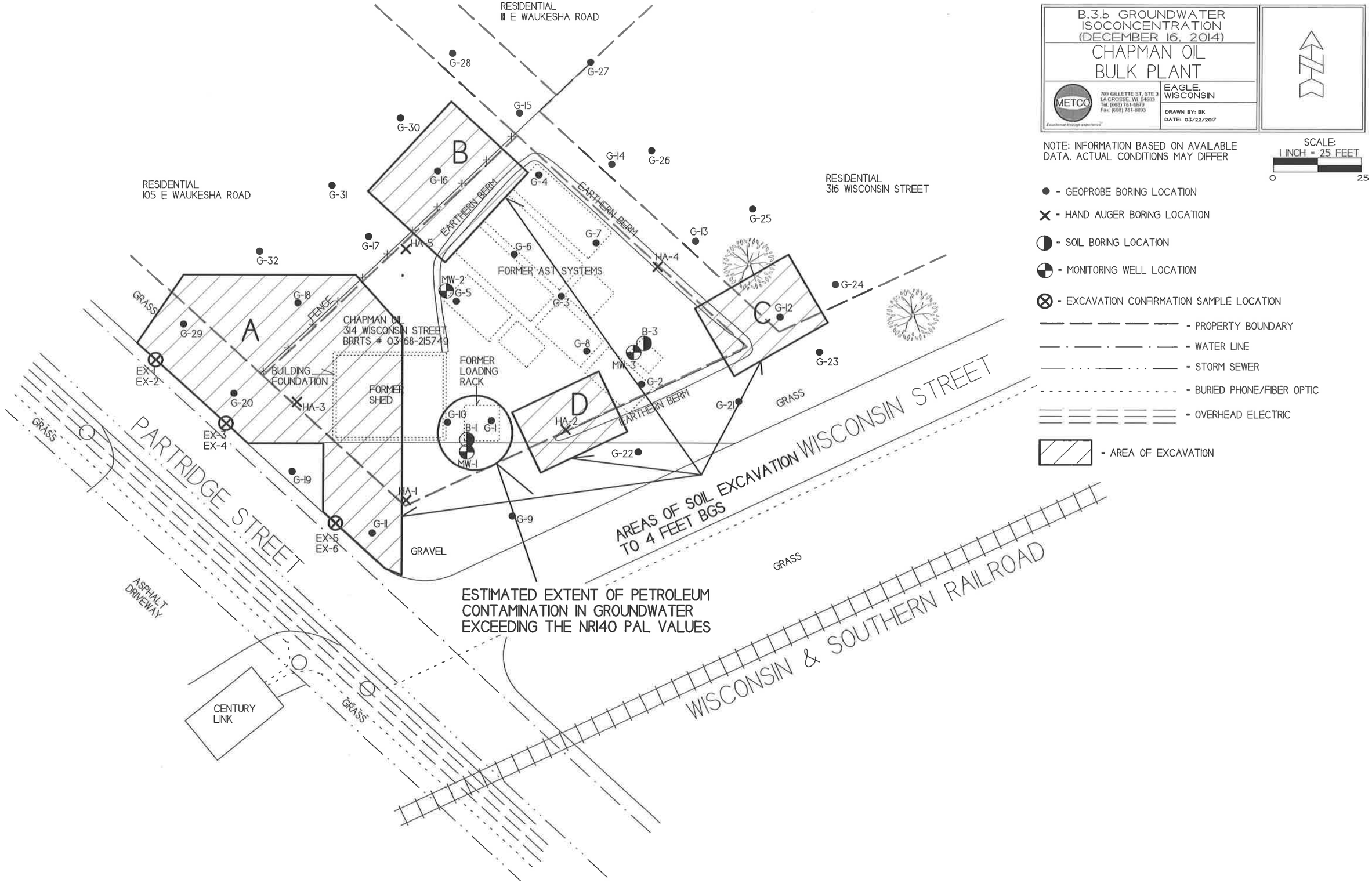


MW-1
11 LEAD
<0.27 BENZENE
<0.82 ETHYLBENZENE
<0.37 MTBE
<0.8 TOLUENE
<1.69 TRIMETHYLBENZENES
<2.41 XYLENE
0.045 CHRYSENE

G-1-W
0.68 BENZENE
1.02 ETHYLBENZENE
<0.37 MTBE
<1.2 NAPHTHALENE
2.17 TOLUENE
1.12-1.98 TRIMETHYLBENZENES
<2.41 XYLENE

G-3-W
0.58 BENZENE
<0.82 ETHYLBENZENE
<0.37 MTBE
<1.2 NAPHTHALENE
1.69 TOLUENE
0.93-3.77 TRIMETHYLBENZENES
<2.41 XYLENE

G-4-W
0.71 BENZENE
<0.82 ETHYLBENZENE
<0.37 MTBE
<1.2 NAPHTHALENE
1.27 TOLUENE
<1.69 TRIMETHYLBENZENES
<2.41 XYLENE


B.3.b GROUNDWATER ISOCONCENTRATION (DECEMBER 16, 2014)
CHAPMAN OIL BULK PLANT
METCO
709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
Tel. (608) 781-6879
Fax. (608) 781-8893
EAGLE, WISCONSIN
DRAWN BY: BK
DATE: 03/22/2017
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER
SCALE: 1 INCH = 25 FEET
0
25
- GEOPROBE BORING LOCATION
- HAND AUGER BORING LOCATION
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- EXCAVATION CONFIRMATION SAMPLE LOCATION
- PROPERTY BOUNDARY
- WATER LINE
- STORM SEWER
- BURIED PHONE/FIBER OPTIC
- OVERHEAD ELECTRIC
- AREA OF EXCAVATION
RESIDENTIAL
111 E WAUKESHA ROAD
RESIDENTIAL
105 E WAUKESHA ROAD
RESIDENTIAL
316 WISCONSIN STREET
CHAPMAN OIL
314 WISCONSIN STREET
BRRTS # 03-68-215749
FORMER AST SYSTEMS
FORMER LOADING RACK
FORMER SHED
BUILDING FOOTPRINT
FENCE
EARTHERN BERM
GRASS
GRAVEL
ASPHALT DRIVEWAY
CENTURY LINK
PARTRIDGE STREET
WISCONSIN STREET
WISCONSIN & SOUTHERN RAILROAD
AREAS OF SOIL EXCAVATION TO 4 FEET BGS
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 PAL VALUES
A
B
C
D
G-1
G-2
G-3
G-4
G-5
G-6
G-7
G-8
G-9
G-10
G-11
G-12
G-13
G-14
G-15
G-16
G-17
G-18
G-19
G-20
G-21
G-22
G-23
G-24
G-25
G-26
G-27
G-28
G-29
G-30
G-31
G-32
B-1
B-3
MW-1
MW-2
MW-3
HA-1
HA-2
HA-3
HA-4
HA-5
EX-1
EX-2
EX-3
EX-4
EX-5
EX-6

B.3.c GROUNDWATER FLOW DIRECTION (DECEMBER 16, 2014)

CHAPMAN OIL
BULK PLANT

METCO
709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
Excellence through experience

EAGLE, WISCONSIN

DRAWN BY: ED
DATE: 03/08/2013
REVISED BY: JZ
DATE: 02/02/2015

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

SCALE:
1 INCH = 25 FEET
0 25

- ● - GEOPROBE BORING LOCATION
- ✕ - HAND AUGER BORING LOCATION
- ◐ - SOIL BORING LOCATION
- ⊕ - MONITORING WELL LOCATION
- — — — - PROPERTY BOUNDARY
- —·—·— - WATER LINE
- —···— - STORM SEWER
- - - - - - BURIED PHONE/FIBER OPTIC
- ═ ═ ═ - OVERHEAD ELECTRIC

B.3.d MONITORING WELLS

CHAPMAN OIL BULK PLANT

METCO
709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
Excellence through experience

EAGLE, WISCONSIN

DRAWN BY: ED
DATE: 03/08/2013

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

SCALE:
1 INCH = 25 FEET
0 25

- MONITORING WELL LOCATION - PROPOSED TO BE ABANDONED
- PROPERTY BOUNDARY
- WATER LINE
- STORM SEWER
- BURIED PHONE/FIBER OPTIC
- OVERHEAD ELECTRIC

RESIDENTIAL
111 E WAUKESHA ROAD

RESIDENTIAL
105 E WAUKESHA ROAD

RESIDENTIAL
316 WISCONSIN STREET

EARTHERN BERM

EARTHERN BERM

FENCE

MW-2

FORMER AST SYSTEMS

AREA OF LARGE (~4 FT DIAMETER) LOGS

CHAPMAN OIL
314 WISCONSIN STREET
BRRTS # 03-68-215749

GRASS

BUILDING FOUNDATION

FORMER SHED

FORMER LOADING RACK

MW-3

EARTHERN BERM

GRASS

MW-1

PARTRIDGE STREET

GRASS

GRAVEL

WISCONSIN STREET

GRASS

ASPHALT DRIVEWAY

CENTURY LINK

GRASS

WISCONSIN & SOUTHERN RAILROAD

Attachment C/Documentation of Remedial Action

C.1 Site Investigation documentation – All site investigation activities are documented in the following:
-Site Investigation Report (July 18, 2015)
-Letter Report (March 30, 2017)
- Risk Assessment Approach for cPAH's (February 15, 2018)
-Letter Report (November 20, 2018)

C.2 Investigative waste

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.goc/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 speadsheet.

C.4 Construction documentation – No remedial systems were installed as part of this site investigation.

C.5 Decommissioning of Remedial Systems – No remedial systems were installed as part of this site investigation.

C.6 Other – No remedial systems were installed as part of this site investigation.

C.2 Investigative Waste

DKS Transport Services, LLC
N7349 548th Street
Menomonie, WI 54751
715-556-2604

INVOICE

12-30 2014

CUSTOMER: Bob Chapman % Metco
709 Gillette St
La Crosse WI 54603

JOB NAME: Chapman Oil Bulk Plant
314 Wisconsin ST
Eagle WI

☐ CASH ☐ CHECK # _____ ☒ IN-HOUSE ACCOUNT

QUANTITY DATE	QUANTITY SHIPPED	DESCRIPTION	QTY.	UNIT PRICE	AMOUNT
	1	MOBILIZATION	1	274 —	274 —
	2	Haul soil drums to Advanced Disposal Eau Claire WI	2	103 —	206 —
		Thank You			
				TOTAL	480 —

Due upon receipt of invoice.
1.5% per month Service Charge (18% Annual Percentage Rate) will be added to past due accounts.

SIGNATURE _____

113

Env. Waste Disposal
Reviewed 1/5/15
JK

C.2. Investigative Waste

Invoice

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

Date	Invoice #
9/26/2018	3569

Bill To

METCO
In Care of Rob Chapman
709 GILLETTE ST
LACROSSE, WI 54603

P.O. No.	Terms	Due Date	Project
	Net 30	10/26/2018	

Quantity	Description	Rate	Amount
1	Mobilization	3,500.00	3,500.00
1	Grub out trees and brush	4,650.00	4,650.00
1,024.16	Excavation	5.00	5,120.80
1,024.16	Hauling	16.00	16,386.56
1,024.16	Soil Disposal	37.50	38,406.00
789.16	Fill	10.00	7,891.60
22	Gravel	20.00	440.00
213	Top Soil	25.00	5,325.00
1,024.16	Backfill & Compaction	3.25	3,328.52
1	Seed & E Mat	2,700.00	2,700.00
1	Remove and Replace Wood Fence	1,800.00	1,800.00
1	Remove and Replace Chain Link Fence	1,800.00	1,800.00
	Jobsite: Chapman Oil, Eagle WI WI & Dunn Sales Tax	5.50%	0.00

Excavation / Disposal Project
Reviewed 9/27/18
OK

Phone #	715-235-2600	**Total**	$91,348.48

A 1.5% Interest fee may be charged to invoices past Due Date stated on the invoice. Interest charges may be billed on first day past Due Date on invoice.

CHAPMAN OIL BULK PLANT, EAGLE WI - DKS CONSTRUCTION: ACCOUNT #17.

Date	Ticket	Profile Number	Truck	Material	Quantity
09/25/2018	1145094	MMRL2018-050 CHA	DKS28	APPROVAL FEE	1.00
09/25/2018	1145094	MMRL2018-050 CHA	DKS28	SW-CONT SOIL	20.14
09/25/2018	1145095	MMRL2018-050 CHA	DKS12	SW-CONT SOIL	20.42
09/25/2018	1145096	MMRL2018-050 CHA	DKS87	SW-CONT SOIL	21.94
09/25/2018	1145098	MMRL2018-050 CHA	DKS221	SW-CONT SOIL	22.59
09/25/2018	1145102	MMRL2018-050 CHA	BWHITE	SW-CONT SOIL	18.60
09/25/2018	1145111	MMRL2018-050 CHA	DKS48	SW-CONT SOIL	22.45
09/25/2018	1145112	MMRL2018-050 CHA	DKS52	SW-CONT SOIL	24.11
09/25/2018	1145113	MMRL2018-050 CHA	DKS50	SW-CONT SOIL	20.35
09/25/2018	1145114	MMRL2018-050 CHA	DKS10	SW-CONT SOIL	20.18
09/25/2018	1145132	MMRL2018-050 CHA	DKS28	SW-CONT SOIL	23.21
09/25/2018	1145133	MMRL2018-050 CHA	DKSBOSS	SW-CONT SOIL	12.79
09/25/2018	1145134	MMRL2018-050 CHA	DKS87	SW-CONT SOIL	21.91
09/25/2018	1145139	MMRL2018-050 CHA	DKS12	SW-CONT SOIL	23.54
09/25/2018	1145140	MMRL2018-050 CHA	DKS221	SW-CONT SOIL	24.31
09/25/2018	1145152	MMRL2018-050 CHA	DKS48	SW-CONT SOIL	22.22
09/25/2018	1145162	MMRL2018-050 CHA	DKS10	SW-CONT SOIL	25.73
09/25/2018	1145163	MMRL2018-050 CHA	DKS52	SW-CONT SOIL	22.73
09/25/2018	1145171	MMRL2018-050 CHA	DKS28	SW-CONT SOIL	21.20
09/25/2018	1145174	MMRL2018-050 CHA	DKSBOSS	SW-CONT SOIL	16.73
09/25/2018	1145176	MMRL2018-050 CHA	DKS87	SW-CONT SOIL	25.47
09/25/2018	1145181	MMRL2018-050 CHA	DKS12	SW-CONT SOIL	22.55
09/25/2018	1145182	MMRL2018-050 CHA	DKS221	SW-CONT SOIL	24.73
09/25/2018	1145187	MMRL2018-050 CHA	DKS48	SW-CONT SOIL	25.96
09/25/2018	1145202	MMRL2018-050 CHA	DKS10	SW-CONT SOIL	23.47
09/25/2018	1145203	MMRL2018-050 CHA	DKS52	SW-CONT SOIL	21.81
09/25/2018	1145210	MMRL2018-050 CHA	DKS28	SW-CONT SOIL	23.61
09/25/2018	1145211	MMRL2018-050 CHA	DKSBOSS	SW-CONT SOIL	20.90
09/25/2018	1145216	MMRL2018-050 CHA	DKS87	SW-CONT SOIL	26.64
09/25/2018	1145217	MMRL2018-050 CHA	DKS12	SW-CONT SOIL	22.44

C.2

09/25/2018	1145223	MMRL2018-050 CHA	DKS48	SW-CONT SOIL	23.36
09/25/2018	1145240	MMRL2018-050 CHA	DKS52	SW-CONT SOIL	23.07
09/25/2018	1145243	MMRL2018-050 CHA	DKS10	SW-CONT SOIL	24.88
09/25/2018	1145244	MMRL2018-050 CHA	DKSBOSS	SW-CONT SOIL	21.98
09/25/2018	1145247	MMRL2018-050 CHA	DKS28	SW-CONT SOIL	25.98
09/25/2018	1145248	MMRL2018-050 CHA	DKS87	SW-CONT SOIL	25.38
09/25/2018	1145249	MMRL2018-050 CHA	DKS12	SW-CONT SOIL	24.98
09/25/2018	1145251	MMRL2018-050 CHA	DKS221	SW-CONT SOIL	25.25
09/26/2018	1145286	MMRL2018-050 CHA	DKS28	SW-CONT SOIL	24.27
09/26/2018	1145287	MMRL2018-050 CHA	DKS221	SW-CONT SOIL	21.23
09/26/2018	1145288	MMRL2018-050 CHA	DKS48	SW-CONT SOIL	26.53
09/26/2018	1145294	MMRL2018-050 CHA	DKS52	SW-CONT SOIL	24.19
09/26/2018	1145298	MMRL2018-050 CHA	DKS10	SW-CONT SOIL	22.24
09/26/2018	1145301	MMRL2018-050 CHA	DKS87	SW-CONT SOIL	21.96
09/26/2018	1145304	MMRL2018-050 CHA	DKS12	SW-CONT SOIL	23.04
TOTALS	45 LOADS				1,024.16

TOTAL TONS

C.2

Attachment D/Maintenance Plan(s)

D.1 Description of Maintenance Actions – No maintenance plan is being required.

D.2 Location map(s) – No maintenance plan is being required.

D.3 Photographs – No maintenance plan is being required.

D.4 Inspection log – No maintenance plan is being required.

Attachment E/Monitoring Well Information

All monitoring wells have been located and will be properly abandoned upon DNR granting conditional closure to the site.

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.1. Deed

DOCUMENT NO

1104121

EEE
$ 7.25 (6)
EXEMPT

1104121

STATE BAR OF WISCONSIN — FORM 1
WARRANTY DEED
THIS SPACE RESERVED FOR RECORDING DATA

REGISTER'S OFFICE
WAUKESHA CO. WIS.

1979 AUG 23 AM 11 30

REEL 374 IMAGE 858

REGISTER OF DEEDS

REEL 374 IMAGE 858

RETURN TO
Cramer, Multhauf & C...
P.O. Box 558
Waukesha WI 531...

Tax Key No. 1813.029

This Deed, made between Russell L. Chapman Grantor and Chapman Oil, Inc. Grantee,

Witnesseth, That the said Grantor, for a valuable consideration One ($1.00) Dollar and other good and valuable consideration conveys to Grantee the following described real estate in Waukesha County, State of Wisconsin:

Lot 5, Block B, in Partridge's Addition to the Village of Eagle, County of Waukesha, State of Wisconsin.

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

Together with all and singular the hereditaments and appurtenances thereunto belonging;

And Russell L. Chapman warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except real estate taxes for the year 1979, recorded easements and restrictions of record

and will warrant and defend the same.

Dated this 1st day of November, 19 78.

.... (SEAL)	Russell L. Chapman (SEAL)
*	* Russell L. Chapman
.... (SEAL)	.... (SEAL)
*	* ....

AUTHENTICATION

Signatures authenticated this .... day of ...., 19.....

....

* ....

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

THIS INSTRUMENT WAS DRAFTED BY

John E. Multhauf

(Signatures may be authenticated or acknowledged. Both are not necessary.)

ACKNOWLEDGMENT

STATE OF WISCONSIN
} ss.
Waukesha County.

Personally came before me, this 1st day of November, 1978 the above named Russell L. Chapman

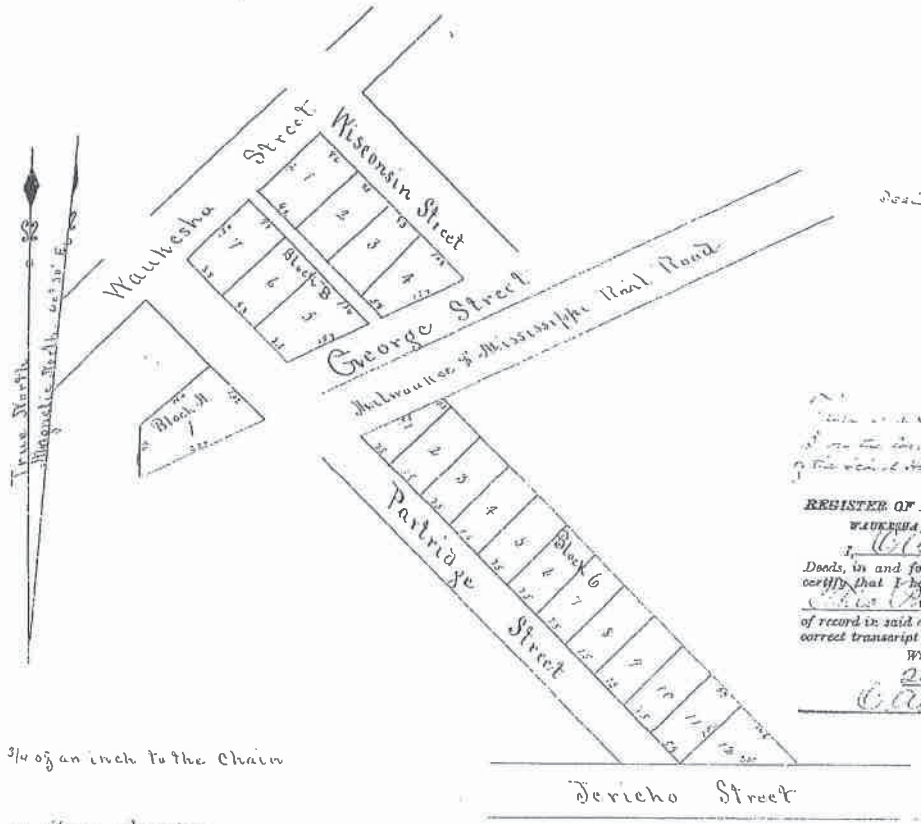
to me known to be the person who executed the foregoing instrument and acknowledge the same.

* John E. Multhauf
Notary Public Waukesha County, Wis.
My Commission is permanent. (If not, state expiration

f. 2 Certified Survey Map

25,

PARTRIDGES ADDITION TO EAGLE



Scale of 3/4 of an inch to the Chain

REGISTERS OF DEEDS' OFFICE,
WAUKESHA COUNTY, WIS.
I, C. W. Burdick Register of Deeds, in and for said County and State, do hereby certify that I have compared the annexed copy of Plat with the original thereof, of record in said office, and that the same is a true and correct transcript thereof and of the whole thereof.
Witness my hand and official seal this 20th day of May A. D. 1893
C. W. Burdick Register of Deeds.

The Property of George Partridge

Block A. Lot No 1 is a Trapezium and is 132 Links on Partridge St. 234 on the side by the Rail Road 90 on the back side and 160 on the North side. Block B Lot No 1 is 76 Links in front and 92 on the back side. Each of the lots in Block B are 80 Links deep. Lots No 2 & 3 are each 59 Links in front and 83 on the back side. Lot No 4 is 108 Links in front on Wisconsin St. 109 on George St. and 98 on the back side. Lot No 5 is 83 Links in front on Partridge St. 134 on the back side and 109 on George St. Lot No 6 is 83 Links in front and 83 on the back side. Lot No 7 is 84 Links in front on Partridge St. and 92 on the back side. The Alley through Block B is 20 Links wide. Block C. Lot No 1 is 75 Links in front, 109 on the side by the Rail Road, and 83 on the back side. Each of the Lots in Block C are 150 Links deep. Lot Nos 2-3-4-5-6-7-8-9-10 are each 76 Links in front on Partridge St. and 75 on the back side. Lot No 11 is 84 Links in front and 84 on the back side, Lot No 12 is a right angle triangle 84 Links on the back side and 210 Links on Jericho St. Waukesha Street runs N. 49° 30' E. and is one Chain wide. George St. runs N. 60° 30' E. and is 75 Links wide. Partridge St. runs S. 29° 30' E. and is one Chain wide from Waukesha St. until it crosses the Rail Road and then it is 76 Links wide from the Rail Road to Jericho St. Jericho St is the Highway Leading from Jericho to Eagle Center & from thence Westwards, Wisconsin St is parallel to Partridge St. and is one Chain wide.

I George Partridge, do hereby certify that I have caused the adjoining Plat of Partridges Addition to Eagle Center, in the Town of Eagle County of Waukesha & State of Wisconsin to be surveyed & laid out by Thomas Scholfield Deputy County Surveyor Signed in presence of Wm. Trudeau. Dated Eagle December 5th 1851

George Partridge

I hereby certify that I surveyed & plotted the above Map of Partridges Addition to Eagle Center by direction of George Partridge, and that the same is true and correct according to the best of my knowledge

Thomas Scholfield
Deputy County Surveyor

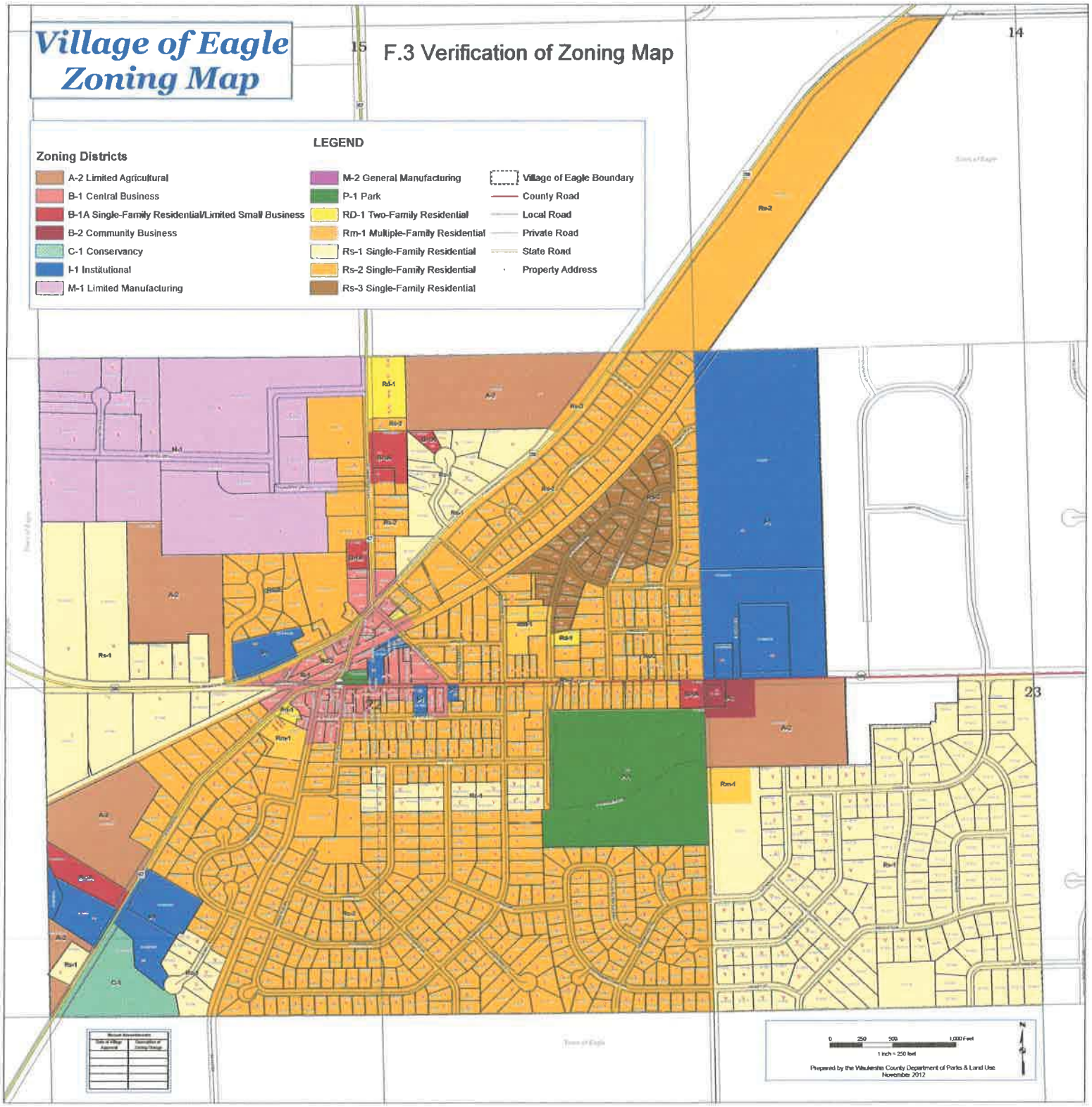
State of Wisconsin
Waukesha County } On the Eighth day of December A.D. 1851 personally appeared before me George Partridge of the town of Eagle in said County & to me well known and acknowledged that he executed the within certificate and that he had caused the within Survey and Plat of Partridges Addition to Eagle Center to be made, the same described and set forth.

N. D. Chadwick
Justice of the Peace

Recorded this 8th day of Dec. A.D. 1851 at 3 Oclock P.M.
Daniel H. Barker Reg. Ward C.
by Wm. T. Whitney Deputy

Village of Eagle Zoning Map

F.3 Verification of Zoning Map



F.4. Signed Statement

WDNR BRRTS Case #: 02-68-215749

WDNR Site Name: Chapman Oil

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:

Robert A Chapman Pres
(print name/title)

Robert A Chapman 2-6-15
(signature) (date)

Attachment G/Notification to Owners of Impacted Properties

G.A Notification to the Village of Eagle for residual soil contamination located in the ROW of Partridge Street.

G.1 Deeds – No other deeded properties have been impacted.

G.2 Certified Survey Map

G.3 Verification of Zoning

G.4 Signed Statement

G.A

AFFECTED A PROPERTY

SOURCE PROPERTY

Notification of Continuing Obligations and Residual Contamination
Form 4400-286 (9/15)

The affected property is:

- ○ the source property (the source of the hazardous substance discharge), but the property is not owned by the person who conducted the cleanup (a deeded property)
- ○ a deeded property affected by contamination from the source property
- ◉ a right-of-way (ROW)
- ○ a Department of Transportation (DOT) ROW

Include this completed page as an attachment with all notifications provided under sections A and B.

Contact Information

Responsible Party: The person responsible for sending this form, and for conducting the environmental investigation and cleanup is:

Responsible Party Name: Rob Chapman

Contact Person Last Name	First	MI	Phone Number (include area code)
Chapman	Rob		(262) 844-0185

Address	City	State	ZIP Code
W344 S9450 Jericho Dr.	Eagle	WI	53119

E-mail: troybp@centurylink.net

Name of Party Receiving Notification:

Business Name, if applicable: Town of Eagle

Title	Last Name	First	MI	Phone Number (include area code)
Mr.	Deegan	Steve		(262) 594-3202

Address	City	State	ZIP Code
820 East Main Street	Eagle	WI	53119

Site Name and Source Property Information:

Site (Activity) Name: Chapman Oil Bulk Plant

Address	City	State	ZIP Code
314 Wisconsin Street	Eagle	WI	53119

DNR ID # (BRRTS#)	(DATCP) ID #
02-68-215749	

Contacts for Questions:

If you have any questions regarding the cleanup or about this notification, please contact the Responsible Party identified above, or contact:

Environmental Consultant: METCO

Contact Person Last Name	First	MI	Phone Number (include area code)
Anderson	Ronald	J	(608) 781-8879

Address	City	State	ZIP Code
709 Gillette Street, Ste 3	La Crosse	WI	54603

E-mail: rona@metcohq.com

Department Contact:

To review the Department's case file, or for questions on cleanups or closure requirements, contact:

Department of: Natural Resources (DNR)

Address	City	State	ZIP Code
141 NW Barstow Street	Waukesha	WI	53188

Contact Person Last Name	First	MI	Phone Number (include area code)
Michael	Greg		(262) 574-2176

E-mail (Firstname.Lastname@wisconsin.gov): Greg.Michael@wisconsin.gov

G.A AFFECTED A PROPERTY SOURCE PROPERTY

Notification of Continuing Obligations and Residual Contamination
Form 4400-286 (9/15)

Section B: ROW Notification: Residual Contamination and/or Continuing Obligations - Non-DOT ROWs

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

820 East Main Street
Eagle, WI, 53119

Dear Mr. Deegan:

I am providing this notification to inform you of the location and extent of contamination remaining in a right-of-way for which you are responsible, and of certain long-term responsibilities (continuing obligations) for which town of Eagle may become responsible. I investigated a release of: petroleum products. on 314 Wisconsin Street, Eagle, WI, 53119 that has shown that contamination has migrated into the right-of-way for which town of Eagle is responsible. I have responded to the release, and will be requesting that the Department of Natural Resources (DNR) grant case closure. Closure means that the DNR will not be requiring any further investigation or cleanup action to be taken. However, continuing obligations may be imposed as a condition of closure approval.

You have 30 days to comment on the proposed closure request:

The DNR will not review my closure request for at least 30 days after the date of this letter. As an affected right-of-way holder, you have a right to contact the DNR to provide any technical information that you may have that indicates that closure should not be granted for this site. If you would like to submit any information to the DNR that is relevant to this closure request, you should mail that information to the DNRcontact: 141 NW Barstow Street, Waukesha, WI, 53188, or at Greg.Michael@wisconsin.gov.

Residual Contamination:

Soil Contamination:

Soil contamination remains at:
Partridge Street
The remaining contaminants include :
Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, and Dibenzo(a,h)anthracene
at levels which exceed the soil standards found in ch. NR 720, Wis. Adm. Code. The following steps have been taken to address any exposure to the remaining soil contamination.
Excavation of 1024.16 tons of petroleum contaminated soil.

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 you or any other person plan to conduct utility or building construction for which dewatering will be necessary, you or that person must contact the DNR's Water Quality Program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at http://dnr.wi.gov/topic/wastewater/GeneralPermits.html.

Continuing Obligations on the Right-of-Way (ROW) : As part of the response actions, I am proposing that the following continuing obligations be used at the affected ROW. If my closure request is approved, you will be responsible for the following continuing obligations:

G.A AFFECTED A PROPERTY SOURCE PROPERTY

Residual Soil Contamination:
If soil is excavated from the areas with residual contamination, the right-of-way holder at the time of excavation will be responsible for the following:

- determine if contamination is present,
- determine whether the material would be considered solid or hazardous waste,
- ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. Contaminated soil may be managed in-place, in accordance with s. NR 718, Wis. Adm. Code, with prior Department approval.

The right-of-way holder needs to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans from ingestion, inhalation or dermal contact.

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.

GIS Registry and Well Construction Requirements:

If this site is closed, all properties within the site boundaries where contamination remains, or where a continuing obligation is applied, will be listed on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web, at http://dnr.wi.gov/topic/Brownfields/clean.html. Inclusion on this database provides public notice of remaining contamination and of any continuing obligations. Documents can be viewed on this database, and include final closure letters, site maps and any applicable maintenance plans. The location of the site may also be viewed on the Remediation and Redevelopment Sites Map (RR Sites Map), on the "GIS Registry" layer, at the same internet address listed above.

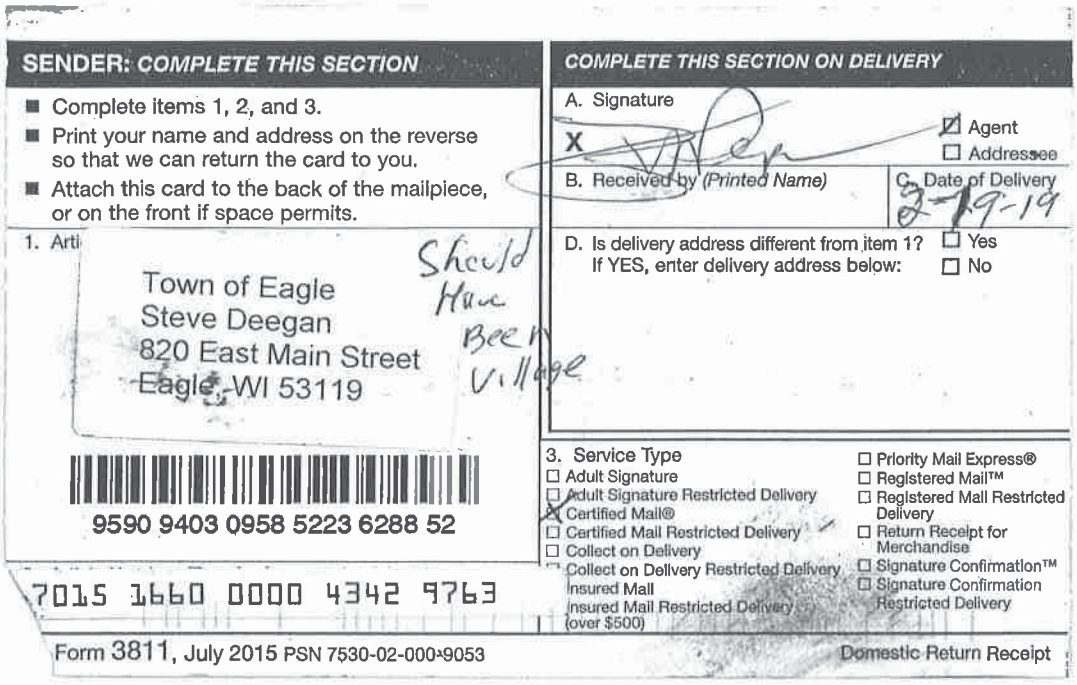
DNR approval prior to well construction or reconstruction is required for all sites included in the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. Special well construction standards may be necessary to protect the well from the remaining contamination. Well drillers need to first obtain approval from a regional water supply specialist in DNR's Drinking Water and Groundwater Program. The well construction application, form 3300-254, is on the internet at http://dnr.wi.gov/topic/wells/documents/3300254.pdf.

If you have any questions regarding this notification, I can be reached at: (608) 781-8879
rona@metcohq.com

Signature of responsible party/environmental consultant for the responsible party	Date Signed
Robert A Chapman	Feb. 4. 2019

Attachments
Contact Information
Legal Description for each Parcel:

G.A



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Arti

Town of Eagle
Steve Deegan
820 East Main Street
Eagle, WI 53119

Should Have Been Village

9590 9403 0958 5223 6288 52

7015 1660 0000 4342 9763

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☑ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery
2-19-19

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

AFFECTED **A** PROPERTY

SOURCE PROPERTY

G.A

AFFECTED A PROPERTY

SOURCE PROPERTY

B.2.a
SOIL CONTAMINATION
CHAPMAN OIL BULK PLANT

METCO
709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
Excellence through experience

EAGLE, WISCONSIN

DRAWN BY: BK
DATE: 03/22/2007

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

SCALE: 1 INCH = 25 FEET
0 25

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCLs FOR PVOC AND LEAD.

RESIDENTIAL
111 E WAUKESHA ROAD

RESIDENTIAL
105 E WAUKESHA ROAD

RESIDENTIAL
316 WISCONSIN STREET

CHAPMAN OIL
314 WISCONSIN STREET
BRRTS # 03-68-215749

PARTRIDGE STREET

WISCONSIN & SOUTHERN RAILROAD

AREAS OF SOIL EXCAVATION TO 4 FEET BGS

ESTIMATED EXTENT OF PAH DIRECT CONTACT EXCEEDING THE CUMULATIVE cPAH CANCER RISK

A, B, C, D

EARTHERN BERM

FORMER AST SYSTEMS

FORMER LOADING RACK

FORMER SHED

BUILDING FOUNDATION

FENCE

TREES & BRUSH

GRASS

GRAVEL

ASPHALT DRIVEWAY

CENTURY LINK

G-1 G-2 G-3 G-4 G-5 G-6 G-7 G-8 G-9 G-10 G-11 G-12 G-13 G-14 G-15 G-16 G-17 G-18 G-19 G-20 G-21 G-22 G-23 G-24 G-25 G-26 G-27 G-28 G-29 G-30 G-31 G-32

B-1 B-3

MW-1 MW-2 MW-3

HA-1 HA-2 HA-3 HA-4 HA-5

EX-1 EX-2 EX-3 EX-4 EX-5 EX-6

- GEOPROBE BORING LOCATION
- HAND AUGER BORING LOCATION
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- EXCAVATION CONFIRMATION SAMPLE LOCATION
- PROPERTY BOUNDARY
- WATER LINE
- STORM SEWER
- BURIED PHONE/FIBER OPTIC
- OVERHEAD ELECTRIC
- AREA OF EXCAVATION

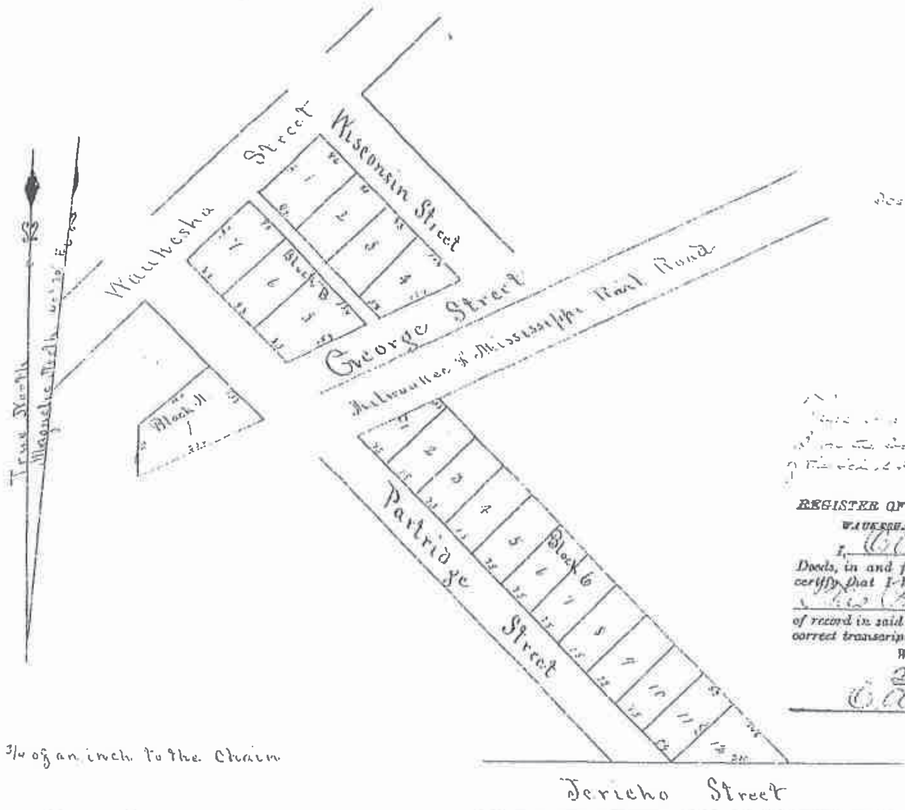
G.2 Certified Survey Map

25

AFFECTED **A** PROPERTY

SOURCE PROPERTY

PARTRIDGES ADDITION TO EAGLE



Scale of 3/4 of an inch to the chain

REGISTER OF DEEDS' OFFICE, } ss.
WAUKESHA COUNTY, WIS.
I, C. W. Haertel Register of Deeds, in and for said County and State, do hereby certify that I have compared the annexed copy of the Plat with the original thereof, of record in said office, and that the same is a true and correct transcript thereof and of the whole thereof.
Witness my hand and official seal this 20th day of May A. D. 1883
C. W. Haertel Register of Deeds.

The Property of George Partridge

Block A. Lot No 1 is a trapezium and is 132 links on Partridge St. 234 on the side by the Rail Road, 90 on the back side and 160 on the North side. Block B Lot No 1 is 76 links in front and 82 on the back side. Each of the lots in Block B are 150 links deep. Lots No 2 & 3 are each 53 links in front and 53 on the back side. Lot No 4 is 108 links in front on Wisconsin St. 154 on George St. and 53 on the back side. Lot No 5 [illegible] is 53 links in front on Partridge St. 134 on the back side and 159 on George St. Lot No 6 is 83 in front and 83 on the back side. Lot No 7 is 54 links in front on Partridge St. and 92 on the back side. The alley through Block B is 20 links wide. Block 6. Lot No 1 is 75 links in front, 104 on the side by the Rail Road, and 23 on the back side. Each of the lots in Block 6 are 150 links deep. Lots No 2.3.4.5.6.7.8.9 & 10 are each 75 links in front on Partridge St. and 75 on the back side. Lot No 11 is 59 links in front and 59 on the back side. Lot No 12 is a right angle triangle & is 48 links on the back side and 210 links on Jericho St. Waukesha Street runs N. 44° 30' E. and is one chain wide. George St. runs N. 50° 30' E. and is 75 links wide. Partridge St. runs S. 44° 10' E. and is one chain wide from Waukesha St. until it crosses the Rail Road and then it is 76 links wide from the Rail Road to Jericho St. Jericho St. is the highway leading from Jericho to Eagle Center & from thence Westward. Wisconsin St. is parallel to Partridge St. and is one chain wide.

I George Partridge do hereby certify that I have caused the adjoining Plat of Partridge Addition to Eagle Center in the town of Eagle County of Waukesha & State of Wisconsin to be surveyed & laid out by Thomas Scholfield Deputy County Surveyor.
Signed in presence of [illegible]. Dated Eagle December 5-1851

George Partridge

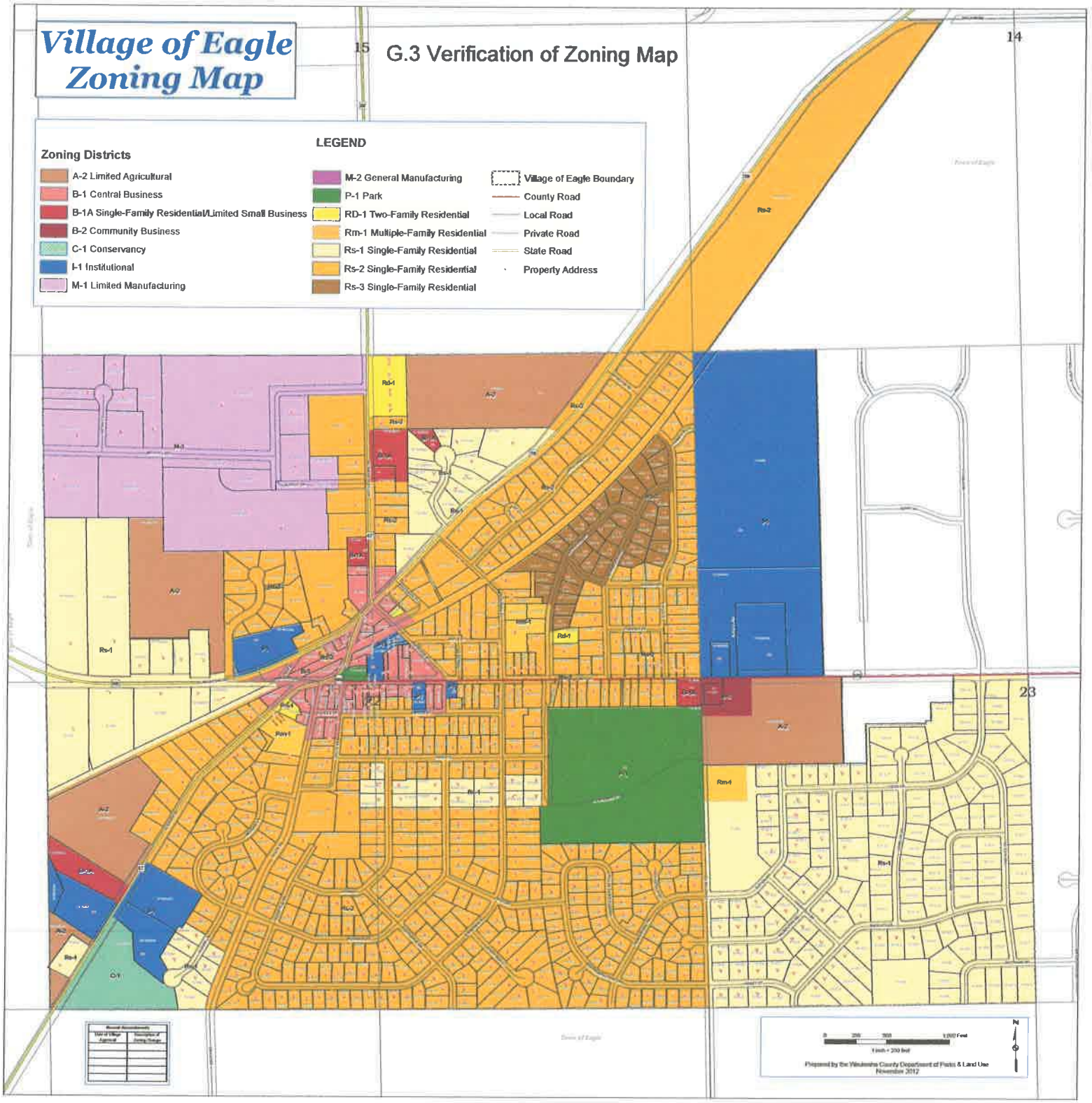
I hereby certify that I surveyed & platted the above map of Partridge Addition to Eagle Center by direction of George Partridge, and that the same is true and correct according to the best of my knowledge
Thomas Scholfield
Deputy County Surveyor.

State of Wisconsin } ss
Waukesha County }
On this fifth day of December A.D. 1851 personally appeared before me George Partridge of the town of Eagle in said County, to me well known, and acknowledged that he executed the within certificate, and that he had caused the within survey and plat of Partridge Addition to Eagle Center to be made, therein described and set forth.
[illegible]
Justice of [illegible]

Recorded this 5th day of Dec. A.D. 1851 at 3 o'clock P.M.
[illegible] Reg. Ward Co
by [illegible] Whitney Deputy.

AFFECTED
A
PROPERTY

SOURCE
PROPERTY



AFFECTED A PROPERTY

SOURCE PROPERTY

G.4. Signed Statement

WDNR BRRTS Case #: 02-68-215749

WDNR Site Name: Chapman Oil

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:

Robert A Chapman Pres.
(print name/title)

Robert A Chapman 6-29-15
(signature) (date)

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee WI 53212-3128

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

WISCONSIN DEPT. OF NATURAL RESOURCES

AFFECTED A PROPERTY

SOURCE PROPERTY

October 15, 2019

Town of Eagle
C/o Mr. Steve Deegan
820 E Main Street
Eagle, WI 53119

SUBJECT: Notice of Closure Approval with Continuing Obligations for Rights-of-Way Holders for:
Partridge Street, Eagle WI 53119
Final Case Closure for Chapman Oil Bulk Plt, 314 Wisconsin Street, WI
DNR BRRTS Activity #: 02-68-215749

Dear Mr. Deegan:

The Department of Natural Resources (DNR) recently approved the completion of environmental work done at the Chapman oil Bulk Plt site. This letter describes how that approval applies to the right-of-way (ROW) at Partridge Street. As the right-of-way holder, you are responsible for complying with these continuing obligations for any work you conduct in the right-of-way.

State law directs parties responsible for environmental contamination to take actions to restore the environment and minimize harmful effects. The law allows some contamination to remain in soil and groundwater if it does not pose a threat to public health, safety, welfare or to the environment.

On February 19, 2019, you received information from METCO about the Polycyclic Hydrocarbon contamination in the ROW from Chapman Oil Bulk Plt, referenced above and about the continuing obligations. Continuing obligations are meant to limit exposure to any remaining contamination.

Applicable Continuing Obligations

The continuing obligations that apply to this right-of-way are described below, and are consistent with Wis. Stat. § 292.12, and Wis. Admin. § NR 700 series.

- Residual soil contamination exists that must be properly managed should it be excavated or removed.

Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)
Soil contamination remains as indicated on the attached map Figure B.2.a, Soil Contamination, dated March 22, 2017. If soil in the specific locations shown above is excavated in the future, the property owner or right-of-way holder 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 or right-of-way holder 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. This continuing obligation also applies to the ROW holders for Partridge Street.

In addition, all current and future owners and occupants of the property and right-of-way holders 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.

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

Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program Associate
2300 North Martin Luther King Drive
Milwaukee, WI 53212

Additional Information

Additional information about this case is available at the DNR's Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web (BOTW) at dnr.wi.gov and search "BOTW". Enter 02-68-215749 in the Activity Number field in the initial screen, then click on Search. Scroll down and click on the CO Packet link for information about the completion of the environmental work. The site may also be seen on the map view, RR Sites Map. RR Sites Map can be found online at dnr.wi.gov and search "WRRD".

Please contact Greg Michael, the DNR project manager, at 262.574.2176 or greg.Michael@Wisconsin.gov with any questions or concerns.

Sincerely,

Pamela A. Mylotta,
Southeast Region Team Supervisor
Remediation & Redevelopment Program

Attachments:

Figure B.2.a, Soil Contamination, dated March 22, 2017

Cc: METCO, Jason Powell, La Crosse Office

AFFECTED A PROPERTY

SOURCE PROPERTY

B.2.a SOIL CONTAMINATION
CHAPMAN OIL BULK PLANT

METCO
709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8803
Excellence through experience

EAGLE, WISCONSIN

DRAWN BY: BK
DATE: 03/22/2017

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

SCALE: 1 INCH = 25 FEET
0 25

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCLs FOR PVOC & LEAD.

AREAS OF UNSATURATED SOIL CONTAMINATION EXCEEDING THE CUMULATIVE DIRECT CONTACT cPAH CANCER RISK AND/OR R720 GROUNDWATER RCLs FOR PAH COMPOUNDS

RESIDENTIAL
111 E WAUKESHA ROAD

RESIDENTIAL
316 WISCONSIN STREET

RESIDENTIAL
105 E WAUKESHA ROAD

CHAPMAN OIL
314 WISCONSIN STREET
BRRTS # 03-68-215749

FORMER AST SYSTEMS

FORMER LOADING RACK

FORMER SHED

BUILDING FOOTPRINT

EARTHERN BERM

FENCE

GRASS

ASPHALT DRIVEWAY

GRAVEL

CENTURY LINK

PARTRIDGE STREET

WISCONSIN STREET

WISCONSIN & SOUTHERN RAILROAD

AREAS OF SOIL EXCAVATION TO 4 FEET BGS

- GEOPROBE BORING LOCATION
- HAND AUGER BORING LOCATION
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- EXCAVATION CONFIRMATION SAMPLE LOCATION
- PROPERTY BOUNDARY
- WATER LINE
- STORM SEWER
- BURIED PHONE/FIBER OPTIC
- OVERHEAD ELECTRIC
- AREA OF EXCAVATION

** - INDICATES DIRECT CONTACT FALL-OUT DUE TO cPAH CALCULATOR.