



September 25, 2018

Ryan Dodge
Hager City Glass, LLC
N1658 CTH V V
Hager City, WI 54014

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
Standard Oil, former
1658 MAIN ST, HAGER CITY, WI
BRRTS #: 03-48-109589
FID#: 648056200

Dear Mr. Dodge:

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

This final closure decision is based on the correspondence and data provided and is issued under chs. NR 726 and 727, Wis. Adm. Code. The West Central Region Closure Committee reviewed the request for closure on September 6, 2018. The Closure Committee reviewed this environmental remediation case for compliance with state laws and standards.

This former gas station had limited soil contamination with petroleum VOCs and metals. No remedial action was taken. The conditions of closure and continuing obligations required were based on the property being used for commercial 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 at <http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf>.

GIS Registry

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

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

All site information is also on file at the Baldwin Service Center office, at 890 Spruce Street, Baldwin, WI. This letter and information that was submitted with your closure request application, including any maps, can be found as a PDF in BRRTS on the Web.

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property.

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

Department of Natural Resources
Patrick Collins
890 Spruce Street,
Baldwin, WI 54002

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

Soil contamination remains in boring locations, G-2, 3, 5 and under the slab of the building addition which is the former tank bed location as indicated on the attached figure, B.2.b, Residual Soil Contamination, 11/2/2017. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Other Closure Information

PECFA Reimbursement

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

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

In Closing

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

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

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Patrick Collins at 715 684-2914 ext.117, or at Patrick.collins@wisconsin.gov

Sincerely,



Dave Rozeboom
West Central Team Supervisor
Remediation & Redevelopment Program

Attachments:

- Figure B.2.b, Residual Soil Contamination, 11/2/2017.

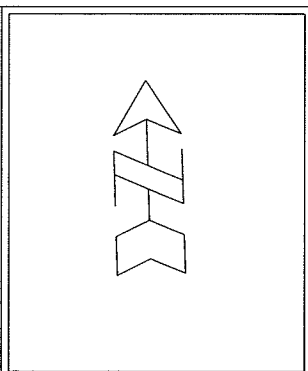
cc: Jason Powell - METCO

B.2.b. RESIDUAL SOIL CONTAMINATION
STANDARD OIL,
HAGER CITY (FORMER)

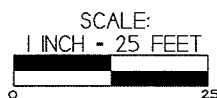
METCO
709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
Excellence through experience™

HAGER CITY,
WISCONSIN

DRAWN BY: ED DATE: 7/6/17
MODIFIED BY: BK DATE: 1/2/17



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



- - UST SITE ASSESSMENT SOIL SAMPLING LOCATION
- ✕ - UST SITE ASSESSMENT SOIL SAMPLING (PID) LOCATION
- = GEOPROBE BORING LOCATION
- - UTILITY POLE

PROPERTY BOUNDARY (APPROXIMATE)

WATER LINE (APPROXIMATE)

BURIED ELECTRICAL

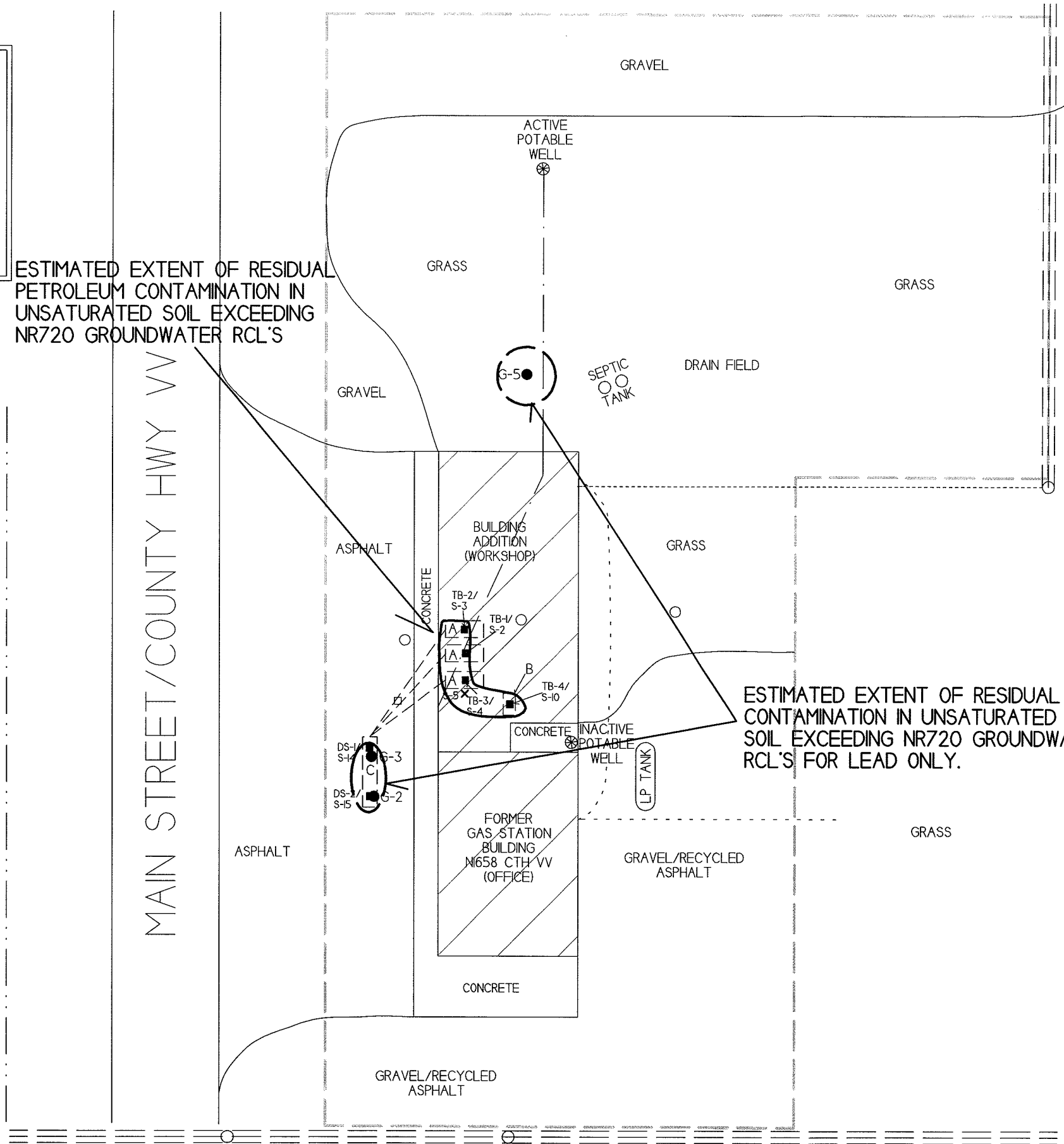
TELEPHONE/CABLE

OVERHEAD UTILITIES

- KEY TO REMOVED UST SYSTEMS
- A - 560 GALLON GASOLINE UST
 - B - 200 GALLON KEROSENE UST
 - C - FORMER PUMP ISLAND

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

ESTIMATED EXTENT OF RESIDUAL PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S FOR LEAD ONLY.



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. 03-48-109589	VPLE No.						
Parcel ID No. 030010140200	FID No. 648056200						
	<table border="1"> <tr> <th colspan="2">WTM Coordinates</th> </tr> <tr> <td>X 318575</td> <td>Y 461649</td> </tr> </table>			WTM Coordinates		X 318575	Y 461649
WTM Coordinates							
X 318575	Y 461649						
BRRTS Activity (Site) Name Standard Oil, Hager City (former)	WTM Coordinates Represent: <input checked="" type="checkbox"/> Source Area <input type="checkbox"/> Parcel Center						
Site Address N1658 County Hwy VV (Main Street)	City Hager City	State WI	ZIP Code 54014				
Acres Ready For Use 0.63							

Responsible Party (RP) Name Ryan Dodge			
Company Name Hager City Glass, LLC			
Mailing Address N1658 County Hwy VV (Main Street)	City Hager City	State WI	ZIP Code 54014
Phone Number (715) 792-5560	Email		

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

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

Fees and Mailing of Closure Request

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

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

Site Summary

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

1. General Site Information and Site History

- A. Site Location: Describe the physical location of the site, both generally and specific to its immediate surroundings.
The Standard Oil, Hager City (former) site, N1658 County Hwy VV (Main Street), is located at the NW 1/4 of the NW 1/4 of Section 2, Township 24 North, Range 18 West, in Hager City (Town of Trenton), Pierce County, WI. The subject property is located east of County Hwy VV (Main Street), and is bound by residential properties to the north, east, and south.
- B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use.
A service station was constructed on the property in approximately the 1930's and operated until approximately the 1980's. After the service station closed, the building was used for storage. Hager City Glass, LLC purchased the property in 2006 and operates a commercial glass business on the property. The former service station building still exists, and an addition was constructed on the north side of the building in 2007.
- 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 Pierce County Land Records, the Standard Oil, Hager City (former) property is zoned as G2 - Commercial. The surrounding properties are zoned as G1 - Residential properties.
- D. Describe how and when site contamination was discovered.
On August 21, 1996, West Central Environmental Consultants oversaw the removal of four underground storage tanks (USTs). The tank systems consisted of three 560-gallon unleaded gasoline USTs and one 200-gallon kerosene UST. During the UST removal, seven soil samples were collected from beneath the removed USTs, piping, and dispenser island for laboratory analysis (DRO, GRO, and PVOC). Petroleum contamination was detected in six of the soil samples. The petroleum contamination was subsequently reported to the WDNR, who then required that a site investigation be conducted.
- E. Describe the type(s) and source(s) or suspected source(s) of contamination.
Petroleum contamination appears to have originated from the former gasoline and kerosene UST systems that existed on the property.
- 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.
There are currently no BRRTS cases for any immediately adjacent properties.

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 material consists of interbedded layers of very fine to fine grained sand, fine to very coarse grained clayey sand with gravel, and very fine to fine grained silty/clayey sand with gravel that was encountered from ground surface to depths ranging from 4 to 12 feet bgs (below ground surface) and a fine to very coarse-grained sand with varying amounts of gravel was encountered at depths ranging from 4 to 12 feet bgs and extending to at least 48 feet bgs.
 - ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
Fill material consisting of sand and gravel was encountered in the area of the removed pump island and product lines from ground surface to depths ranging from 6 inches to 5.5 feet bgs.
 - iii. Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation.
Bedrock was not encountered during the site investigation. However, sandstone bedrock is estimated to exist at approximately 150 to 200 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 on-site building is located in the southern central portion of the site property. A concrete apron exists immediately to the west and south of the building. An asphalt parking lot exists to the west of the building. An area of gravel / recycled asphalt exists along the southern edge of the property and along the eastern portion of the on-site building up to the recent workshop addition. An area of gravel/grass exists along the northern portion of the property and to the east of the workshop addition. A small area of gravel exists to the north of the asphalt parking lot and a strip of gravel exists

along the northern property boundary.

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.

According to the data collected during the Geoprobe project, groundwater exists at approximately 43.5 to 47 feet bgs. Free product was not encountered during the site investigation. The stratigraphic unit where the water table is found consists of a fine to very coarse-grained sand with varying amounts of gravel.

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

The local horizontal groundwater flow in the immediate area of the subject property is expected to be generally to the south to southwest.

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

Monitoring wells were not installed as part of this site investigation, however based on the results of the investigation, it appears that groundwater is located within a fine to very coarse grained sand with gravel. Book values for the hydraulic conductivity of this material range from 1e-3 cm/sec to 1e-1 cm/sec.

- 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 private water supply wells. The active water supply (no construction information available) well for the subject property is located approximately 90 feet to the north of the removed UST systems. An inactive water supply well for the subject property is located approximately 13 feet to the southeast of the removed UST systems. It is estimated that there are approximately 45 other private wells within 1,200 feet 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 21, 1996, West Central Environmental Consultants oversaw the removal of four underground storage tanks (USTs). During the UST removal, seven soil samples were collected from beneath the removed USTs, piping, and dispenser island for laboratory analysis (DRO, GRO, and PVOC). One groundwater sample from the former on-site potable well (PW1658) was also collected and submitted for laboratory analysis (VOC's). (Tank Closure Site Assessment Report - February 2, 2018)

On August 28, 2017, Geiss Soil and Samples, LLC of Merrill, WI conducted a Geoprobe project under the supervision and direction of METCO personnel. Seven Geoprobe borings (G-1 through G-7) were completed with forty-two soil samples collected for field and/or laboratory analysis (PID, VOC, PVOC, Naphthalene, and/or Lead). During the Geoprobe project, groundwater samples were collected from four Geoprobe borings (G-1, G-2, G-5, and G-6) for laboratory analysis (PVOC and Naphthalene). METCO personnel also collected a groundwater sample from the existing on-site potable well (PW1658) for laboratory analysis (VOC's). (Site Investigation Report - April 3, 2018)

On July 3, 2018, Geiss Soil and Samples, LLC of Merrill, WI conducted a Geoprobe project under the supervision and direction of METCO personnel. Two Geoprobe borings (G-8 and G-9) were completed with sixteen soil samples collected for field and/or laboratory analysis (PID, PVOC, Naphthalene, and/or Lead). During the Geoprobe project, groundwater samples were collected from the two Geoprobe borings (G-8 and G-9) for laboratory analysis (PVOC and Naphthalene). Soil boring G-9 moved approximately 9 feet to the east of its proposed drilling location due to a buried water line and an overhead roof beam that prevented access to this location. A third proposed soil boring was eliminated as it was to be located beneath a large fan that was mounted in the ceiling rafters.

- 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.

The extent of petroleum contamination in unsaturated soil appears to be confined to the subject property. Currently, there does not appear to be any groundwater contamination exceeding the NR140 ES or PAL.

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

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

B. Soil

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

Three areas of unsaturated soil contamination, which exceed the NR720 Groundwater RCL values include: 1) An area of soil contamination exists in the area of the removed gasoline and kerosene UST's along the western side of the northern (workshop) portion of the on-site building. This area of soil contamination appears to measure up to 20 feet long, 8 feet wide, and up to 8 feet thick. 2) An area of soil contamination exists in the area of the former dispenser island. This area of soil contamination exceeding the NR720 Groundwater RCL values for Lead only appears to measure up to 14 feet long, up to 17 feet wide, and up to 3.5 feet thick. 3) An area of soil contamination exists to the north of the on-site building. This area of soil contamination exceeding the NR720 Groundwater RCL values for Lead only consists of an area measuring up to 12 feet in diameter, and up to 3.5 feet thick.

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

G-2-1 (3.5 feet bgs): Lead.

G-3-1 (3.5 feet bgs): Lead.

G-5-1 (3.5 feet bgs): Lead.

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

The method used to establish the soil cleanup standards for this site were the NR720 RCL's. The property is zoned "G2 - Commercial", 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.

Based on the results from groundwater samples collected from Geoprobe borings G-1, G-2, G-5, G-6, G-8, and G-9 groundwater does not appear to be impacted. Since there are currently no NR140 ES and/or PAL exceedances for all contaminants of concern, there aren't any known potential or existing risks concerning groundwater contamination.

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

Free product has never been encountered at this site.

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.

An area of soil contamination appears to extend up to and underneath the on-site building and may pose a vapor intrusion risk. However, it should be noted that: 1) This portion of the building was added in 2007 and does not have a basement. 2) Approximately 7 to 8 feet of clean fill material that was placed in the excavation following the UST removal which exists between the area of soil contamination and the building floor. 3) Groundwater does not appear to have been impacted.

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

No indoor air or sub slab vapor samples were collected.

E. Surface Water and Sediment

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

The nearest surface water is the Mississippi River, which exists approximately 3,800 feet to the south of the subject property. It does not appear that the petroleum contamination has impacted any surface waters.

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

No surface water or sediment samples were collected.

4. Remedial Actions Implemented and Residual Levels at Closure

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

No remedial actions occurred at this site.

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

No immediate or interim actions occurred at this site.

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

No remedial actions occurred at this site.

- 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 the 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.

Three areas of unsaturated soil contamination, which exceed the NR720 Groundwater RCL values include: 1) An area of soil contamination exists in the area of the removed gasoline and kerosene UST's along the western side of the northern (workshop) portion of the on-site building. This area of soil contamination appears to measure up to 20 feet long, 8 feet wide, and up to 8 feet thick. 2) An area of soil contamination exists in the area of the former dispenser island. This area of soil contamination exceeding the NR720 Groundwater RCL values for Lead only appears to measure up to 14 feet long, up to 17 feet wide, and up to 3.5 feet thick. 3) An area of soil contamination exists to the north of the on-site building. This area of soil contamination exceeding the NR720 Groundwater RCL values for Lead only consists of an area measuring up to 12 feet in diameter, and up to 3.5 feet thick.

The extent of petroleum contamination in unsaturated soil appears to be confined to the subject property.

Based on the results from the groundwater samples collected from Geoprobe borings G-1, G-2, G-5, G-6, G-8, and G-9 groundwater does not appear to be impacted.

- 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.

There are no NR720 Non-Industrial Direct Contact RCL exceedances for any contaminants of concern.

- 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.

The following unsaturated soil samples currently exceed NR720 Groundwater RCLs:

TB-1 (8 feet bgs): Trimethylbenzenes.

TB-2 (8 feet bgs): Trimethylbenzenes, Xylene.

TB-3 (8 feet bgs): Trimethylbenzenes, Xylene.

TB-4 (7 feet bgs): Benzene, Ethylbenzene, Toluene, Trimethylbenzenes, and Xylene.

G-2-1 (3.5 feet bgs): Lead.

G-3-1 (3.5 feet bgs): Lead.

G-5-1 (3.5 feet bgs): Lead.

- H. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.

Any remaining exposure pathways will be addressed via natural attenuation.

- I. If using natural attenuation as a groundwater remedy, describe how the data collected supports the conclusion that natural attenuation is effective in reducing contaminant mass and concentration (e.g., stable or receding groundwater plume).

There are no NR140 ES and/or PAL exceedances for any contaminants of concern. Therefore, natural attention appears to be an effective method 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).

Any remaining exposure pathways will be addressed via natural attenuation.

- K. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain.
No system hardware is anticipated to be left in place after site closure.
- L. Identify the need for a ch. NR 140, Wis. Adm. Code, groundwater Preventive Action Limit (PAL) or Enforcement Standard (ES) exemption, and identify the affected monitoring points and applicable substances.
There are no NR140 ES and/or PAL exceedances for any contaminants of concern.
- M. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.
No indoor/sub slab vapor samples were collected.
- N. Describe the surface water and/or sediment contaminant concentrations and areas after remediation. If a DNR action level was exceeded, describe where it was exceeded and how the pathway was addressed.
No surface water or sediment samples were collected.

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

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

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

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

6. Underground Storage Tanks

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

General Instructions

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

Data Tables (Attachment A)

Directions for Data Tables:

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

A. Data Tables

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

Maps, Figures and Photos (Attachment B)

Directions for Maps, Figures and Photos:

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

B.1. Location Maps

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

B.2. Soil Figures

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

B.3. Groundwater Figures

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

B.4. Vapor Maps and Other Media

- B.4.a. **Vapor Intrusion Map:** Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway in relation to residual soil and groundwater contamination, including sub-slab, indoor air, soil vapor, soil gas, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.
- B.4.b. **Other media of concern (e.g., sediment or surface water):** Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.
- B.4.c. **Other:** Include any other relevant maps and figures not otherwise noted above. (This section may remain blank).

- B.5. **Structural Impediment Photos:** One or more photographs documenting the structural impediment feature(s) which precluded a complete site investigation or remediation at the time of the closure request. The photographs should document the area that could not be investigated or remediated due to a structural impediment. The structural impediment should be indicated on Figures B.2.a and B.2.b.

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

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

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

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

- D.1. **Descriptions of maintenance action(s) required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required:**

- Provide brief descriptions of the type, depth and location of residual contamination.

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

Monitoring Well Information (Attachment E)

Directions for Monitoring Well Information:

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

Select One:

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

Source Legal Documents (Attachment F)

Directions for Source Legal Documents:

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

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

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

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

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

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

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

- **Deed:** The most recent deed with legal descriptions clearly listed for all affected properties.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes the attached legal description(s) accurately describe(s) the correct contaminated property or properties.

Signatures and Findings for Closure Determination

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

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

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

Engineering Certification

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

Printed Name Title

Signature Date P.E. Stamp and Number

Hydrogeologist Certification

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

Ron Anderson Senior Hydrogeologist/Project Manager
Printed Name Title


Signature

8/21/18
Date

Attachment A/Data Tables

A.1 Groundwater Analytical Tables

A.2 Soil Analytical Tables

A.3 Residual Soil Contamination Table

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

A.5 Other Media of Concern - No surface waters or sediments were assessed as part of the site investigation.

A.6 Water Level Elevations - No monitoring wells were installed as part of the site investigation.

A.7 Other

**A.1 Groundwater Analytical Table
(Geoprobe)
Standard Oil, Hager City (fmr) BRRTS #03-48-109589**

Sample ID	Date	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
G-1-W	8/28/2017	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-2-W	8/28/2017	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-5-W	8/28/2017	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-6-W	8/28/2017	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-8-W	7/3/2018	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
G-9-W	7/3/2018	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
ENFORCE MENT STANDARD ES = Bold		5	700	60	100	800	480	2000
<i>PREVENTIVE ACTION LIMIT PAL = Italics</i>		<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

NS = Not Sampled

(ppb) = parts per billion

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

A.1 Groundwater Analytical Table
Standard Oil, Hager City (fmr) BRRTS #03-48-109589

Private Well – PW1658 Source (inactive)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
08/21/96	NM	NM	NS	<0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
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).

Private Well – PW1658 Source (active)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
08/28/17	NM	NM	NS	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
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
(VOC's)

Standard Oil, Hager City (fmr) BRRS #03-48-109589

Well Sampling Conducted on: 8/21/1996 8/28/2017

VOC's	Well Name	PW1658 (inactive)	PW1658 (active)	ENFORCE MENT STANDARD = ES - Bold		PREVENTIVE ACTION LIMIT = PAL - Italics	
Benzene/ppb		<0.6	< 0.17	5		<i>0.5</i>	
Bromobenzene/ppb		<1.0	< 0.43	==		==	
Bromochloromethane/ppb		<1.0		==		==	
Bromodichloromethane/ppb		<1.0	< 0.31	0.6		<i>0.06</i>	
Bromoform/ppb		<1.0	< 0.49	4.4		<i>0.44</i>	
Bromomethane/ppb		<1.0		==		==	
tert-Butylbenzene/ppb		<1.0	< 0.39	==		==	
sec-Butylbenzene/ppb		<1.0	< 0.24	==		==	
n-Butylbenzene/ppb		<1.0	< 0.34	==		==	
Carbon Tetrachloride/ppb		<1.0	< 0.21	5		<i>0.5</i>	
Chlorobenzene/ppb		<1.0	< 0.27	==		==	
Chlorodibromomethane/ppb		<1.0	NS	==		==	
Chloroethane/ppb		<1.0	< 0.5	400		<i>80</i>	
Chloroform/ppb		<1.0	< 0.96	6		<i>0.6</i>	
Chloromethane/ppb		<1.0	< 1.3	30		<i>3</i>	
2-Chlorotoluene/ppb		<1.0	< 0.36	==		==	
4-Chlorotoluene/ppb		<1.0	< 0.35	==		==	
1,2-Dibromo-3-chloropropane/ppb		<1.0	< 1.88	0.2		<i>0.02</i>	
1,2-Dibromoethane/ppb		<1.0	NS				
Dibromoethane/ppb		<1.0	NS				
Dibromochloromethane/ppb		NS	< 0.45	60		<i>6</i>	
1,4-Dichlorobenzene/ppb		<1.0	< 0.42	75		<i>15</i>	
1,3-Dichlorobenzene/ppb		<1.0	< 0.45	600		<i>120</i>	
1,2-Dichlorobenzene/ppb		<1.0	< 0.34	600		<i>60</i>	
Dichlorodifluoromethane/ppb		<1.0	1.18 "J"	1000		<i>200</i>	
1,2-Dichloroethane/ppb		<1.0	< 0.45	5		<i>0.5</i>	
1,1-Dichloroethane/ppb		<1.0	< 0.42	850		<i>85</i>	
1,1-Dichloroethene/ppb		<1.0	< 0.46	7		<i>0.7</i>	
cis-1,2-Dichloroethene/ppb		<1.0	< 0.41	70		<i>7</i>	
trans-1,2-Dichloroethene/ppb		<1.0	< 0.35	100		<i>20</i>	
1,2-Dichloropropane/ppb		<1.0	< 0.39	5		<i>0.5</i>	
1,3-Dichloropropane/ppb		<1.0	< 0.49	==		==	
2,2-Dichloropropane/ppb		<1.0	NS	==		==	
1,1-Dichloropropene/ppb		<1.0	NS	==		==	
trans-1,3-Dichloropropene/ppm		NS	< 0.42				
cis-1,3-Dichloropropene/ppm		NS	< 0.21	0.4		<i>0.04</i>	
Di-isopropyl ether/ppb		<1.0	< 0.26	==		==	
EDB (1,2-Dibromoethane)/ppb		NS	< 0.34	0.05		<i>0.005</i>	
Ethylbenzene/ppb		<1.0	< 0.2	700		<i>140</i>	
Hexachlorobutadiene/ppb		<1.0	< 1.47	==		==	
Isopropylbenzene/ppb		<1.0	< 0.29	==		==	
p-Isopropyltoluene/ppb		<1.0	< 0.28	==		==	
Methylene chloride/ppb		<1.0	< 0.94	5		<i>0.5</i>	
Methyl tert-butyl ether (MTBE)/ppb		<1.0	< 0.82	60		<i>12</i>	
Naphthalene/ppb		<1.0	< 2.17	100		<i>10</i>	
n-Propylbenzene/ppb		<1.0	< 0.19	==		==	
1,1,2,2-Tetrachloroethane/ppb		<1.0	< 0.69	0.2		<i>0.02</i>	
1,1,1,2-Tetrachloroethane/ppb		<1.0	< 0.47	70		<i>7</i>	
Styrene/ppb		<1.0	NS				
Tetrachloroethene (PCE)/ppb		<1.0	< 0.48	5		<i>0.5</i>	
Toluene/ppb		<1.0	< 0.67	800		<i>160</i>	
1,2,4-Trichlorobenzene/ppb		<1.0	< 1.29	70		<i>14</i>	
1,2,3-Trichlorobenzene/ppb		<1.0	< 0.83	==		==	
1,1,1-Trichloroethane/ppb		<1.0	< 0.35	200		<i>40</i>	
1,1,2-Trichloroethane/ppb		<1.0	< 0.65	5		<i>0.5</i>	
Trichloroethene (TCE)/ppb		<1.0	< 0.45	5		<i>0.5</i>	
Trichlorofluoromethane/ppb		<1.0	< 0.64	==		==	
1,2,3-Trichloropropane/ppb		<1.0	NS	==		==	
1,2,4-Trimethylbenzene/ppb		<1.0	< 1.14				
1,3,5-Trimethylbenzene/ppb		<1.0	< 0.91	Total TMB's 480		<i>Total TMB's 96</i>	
Vinyl Chloride/ppb		<1.0	< 0.19	0.2		<i>0.02</i>	
m&p-Xylene/ppb		<1.0	< 1.56				
o-Xylene/ppb		<1.0	< 0.39	Total Xylenes 2000		<i>Total Xylenes 400</i>	

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

A.2 Soil Analytical Results Table
Standard Oil, Hager City (fmr) BRRTS #03-48-109589

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk
DS-1	2.5	U	08/21/96	NM	NS	NS	<2.8	<0.028	<0.028	<0.028	NS	<0.028	<0.028	<0.028	<0.056	NS	0		
DS-2	2.5	U	08/21/96	NM	NS	NS	3.5	<0.027	<0.027	<0.027	NS	<0.027	<0.027	<0.027	<0.054	NS	0		
PR	2.5	U	08/21/96	NM	NS	NS	<2.7	<0.027	<0.027	<0.027	NS	<0.027	<0.027	<0.027	0.038-0.065	NS	0		
TB-1	8.0	U	08/21/96	NM	NS	NS	25	<0.026	0.032	<0.026	NS	<0.026	3	1	2.05	NS			
TB-2	8.0	U	08/21/96	NM	NS	NS	1100	<0.540	1.4	<0.540	NS	<0.540	87	43	72	NS			
TB-3	8.0	U	08/21/96	NM	NS	NS	55	<0.028	<0.028	<0.028	NS	0.150	2.8	1.1	25	NS			
TB-4	7.0	U	08/21/96	NM	NS	260	4900	7.8	92	<1.3	NS	210	(310)*	100	(800)*	NS			
S-1	1.5	U	08/21/96	1.4	NOT SAMPLED											NS	0		
S-2	7.0	U	08/21/96	74.4	NOT SAMPLED											NS			
S-3	7.0	U	08/21/96	>1999	NOT SAMPLED											NS			
S-4	8.0	U	08/21/96	>1999	NOT SAMPLED											NS			
S-5	4.5	U	08/21/96	1.8	NOT SAMPLED											NS			
S-6	4.0	U	08/21/96	2.1	NOT SAMPLED											NS	0		
S-7	4.0	U	08/21/96	1.8	NOT SAMPLED											NS	0		
S-8	3.0	U	08/21/96	0	NOT SAMPLED											NS	0		
S-9	3.0	U	08/21/96	0	NOT SAMPLED											NS	0		
S-10	7.0	U	08/21/96	1813	NOT SAMPLED											NS			
S-11	4.0	U	08/21/96	11.6	NOT SAMPLED											NS	0		
S-12	3.5	U	08/21/96	10.5	NOT SAMPLED											NS	0		
S-13	3.0	U	08/21/96	15.3	NOT SAMPLED											NS	0		
S-14	2.5	U	08/21/96	2.8	NOT SAMPLED											NS	0		
S-15	2.5	U	08/21/96	5	NOT SAMPLED											NS			
G-1-1	3.5	U	08/28/17	6.8	3.32	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-1-2	6	U	08/28/17	0.7	NS	NS	NS	<0.03	<0.035	<0.05	<0.094	<0.032	<0.025	<0.032	<0.116	SEE VOC SHEET			
G-1-3	10	U	08/28/17	1.6	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-1-4	20	U	08/28/17	2.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-1-5	30	U	08/28/17	2.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-1-6	40	U	08/28/17	2.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-1	3.5	U	08/28/17	2.4	79.4	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.1985	
G-2-2	6	U	08/28/17	5.9	NOT SAMPLED											NS			
G-2-3	10	U	08/28/17	1.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-4	20	U	08/28/17	1.6	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-5	30	U	08/28/17	1.2	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-6	40	U	08/28/17	1.6	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-7	46	S	08/28/17	1.5	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-1	3.5	U	08/28/17	2.9	43.9	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-3-2	6	U	08/28/17	0.3	NOT SAMPLED											NS			
G-3-3	10	U	08/28/17	0.3	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-4	20	U	08/28/17	0.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-5	30	U	08/28/17	0.9	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-1	3.5	U	08/28/17	1.4	3.20	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-4-2	6	U	08/28/17	0.8	NOT SAMPLED											NS			
G-4-3	10	U	08/28/17	0.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-4	20	U	08/28/17	0.5	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-5	30	U	08/28/17	2.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-1	3.5	U	08/28/17	0.6	28.4	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-5-2	6	U	08/28/17	1.1	NOT SAMPLED											NS			
G-5-3	10	U	08/28/17	1.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-4	20	U	08/28/17	1.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-5	30	U	08/28/17	0.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-6	40.0	U	08/28/17	1.40	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-7	44	S	08/28/17	0.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-6-1	3.5	U	08/28/17	0.8	6.62	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-6-2	6	U	08/28/17	0.8	NOT SAMPLED											NS			
G-6-3	10	U	08/28/17	0.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-6-4	20	U	08/28/17	0.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-6-5	30	U	08/28/17	0.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-6-6	40	U	08/28/17	0.3	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-6-7	49	S	08/28/17	0.4	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-1	3.5	U	08/28/17	0.2	4.63	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-7-2	6	U	08/28/17	0.4	NOT SAMPLED											NS			
G-7-3	10	U	08/28/17	0.4	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-4	20	U	08/28/17	0.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-5	30	U	08/28/17	0.2	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	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	258	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(258)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-			

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
Italics = Industrial Direct Contact RCL
 NS = Not Sampled
 (ppm) = parts per million
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 PID = Photoionization Detector
 PVOC's = Petroleum Volatile Organic Compounds
 VOC's = Volatile Organic Compounds
Note: Non-Industrial RCLs apply to this site.

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

A.2 Soil Analytical Results Table
 Standard Oil, Hager City (fmr) BRRTS #03-48-109589

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED			
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk	
G-8-1	3		7/3/2018	0.6	3.92	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0			
G-8-2								COULD NOT RECOVER												
G-8-3	10		7/3/2018	0.6	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-8-4	16		7/3/2018	0.7				NOT SAMPLED												
G-8-5	20		7/3/2018	0.6	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-8-6								NO RECOVERY												
G-8-7								NO RECOVERY												
G-8-8								NO RECOVERY												
G-8-9								NO RECOVERY												
G-8-10								NO RECOVERY												
G-8-11								NO RECOVERY												
G-8-12								NO RECOVERY												
G-9-1	3		7/3/2018	0.8	9.21	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0			
G-9-2	6		7/3/2018	0.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-9-3	10		7/3/2018	1.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-9-4	16		7/3/2018	1.4				NOT SAMPLED												
G-9-5	20		7/3/2018	1.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-9-6	24		7/3/2018	NM				NOT SAMPLED												
G-9-7	28		7/3/2018	1.2				NOT SAMPLED												
G-9-8	30		7/3/2018	0.9	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-9-9	36		7/3/2018	1.0				NOT SAMPLED												
G-9-10	40		7/3/2018	0.5	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-9-11	44		7/3/2018	0.2	2.03	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-9-12	48		7/3/2018	1.3				NOT SAMPLED												
Groundwater RCL					27	-	-	0.00512	1.57	0.027	0.6582	1.11	1.38		3.96	-				
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	258	-		1.00E+00	1.00E-05	
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(258)	-		1.00E+00	1.00E-05	
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-				

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
Bold & Parentheses = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
Italics = Industrial Direct Contact RCL
 NS = Not Sampled NM = Not Measured
 (ppm) = parts per million ND = No Detects
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 PID = Photoionization Detector
 PVOC's = Petroleum Volatile Organic Compounds
 VOC's = Volatile Organic Compounds
Note: Non-Industrial RCLs apply to this site.

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

A.2 Soil Analytical Results Table
Standard Oil, Hager City (fmr) BRRS #03-48-109589

Sampling Conducted on August 28, 2017

VOC's		Bold = Groundwater RCL	<u>Bold = Non- Industrial Direct Contact RCL</u>	(Parenthesis & Bold) = Industrial Direct Contact RCL	Asteric * & Bold =Soil Saturation (C- sat) RCL
Sample ID#	G-1-2				
Sample Depth/ft.	6				
Solids Percent					
Benzene/ppm	< 0.03	0.00512	<u>1.6</u>	(7.07)	1820*
Bromobenzene/ppm	< 0.025	= =	<u>342</u>	(679)	= =
Bromodichloromethane/ppm	< 0.074	0.000326	<u>0.418</u>	(1.83)	= =
Bromoform/ppm	< 0.029	0.00233	<u>25.4</u>	(113)	= =
tert-Butylbenzene/ppm	< 0.026	= =	<u>183</u>	(183)	183*
sec-Butylbenzene/ppm	< 0.033	= =	<u>145</u>	(145)	145*
n-Butylbenzene/ppm	< 0.04	= =	<u>108</u>	(108)	108*
Carbon Tetrachloride/ppm	< 0.016	0.00388	<u>0.916</u>	(4.03)	= =
Chlorobenzene/ppm	< 0.013	= =	<u>370</u>	(761)	761*
Chloroethane/ppm	< 0.091	0.227	= =	= =	= =
Chloroform/ppm	< 0.035	0.0033	<u>0.454</u>	(1.98)	= =
Chloromethane/ppm	< 0.076	0.0155	<u>159</u>	(669)	= =
2-Chlorotoluene/ppm	< 0.015	= =	= =	= =	= =
4-Chlorotoluene/ppm	< 0.018	= =	= =	= =	= =
1,2-Dibromo-3-chloropropane/ppm	< 0.058	0.000173	<u>0.008</u>	(0.092)	= =
Dibromochloromethane/ppm	< 0.025	0.032	<u>8.28</u>	(38.9)	= =
1,4-Dichlorobenzene/ppm	< 0.037	0.144	<u>3.74</u>	(16.4)	= =
1,3-Dichlorobenzene/ppm	< 0.037	1.1528	<u>297</u>	(193)	297*
1,2-Dichlorobenzene/ppm	< 0.028	1.168	<u>376</u>	(376)	376*
Dichlorodifluoromethane/ppm	< 0.048	3.0863	<u>126</u>	(530)	= =
1,2-Dichloroethane/ppm	< 0.038	0.00284	<u>0.652</u>	(2.87)	540*
1,1-Dichloroethane/ppm	< 0.034	0.4834	<u>5.06</u>	(22.2)	= =
1,1-Dichloroethene/ppm	< 0.022	0.00502	<u>320</u>	(1190)	1190*
cis-1,2-Dichloroethene/ppm	< 0.032	0.0412	<u>156</u>	(2340)	= =
trans-1,2-Dichloroethene/ppm	< 0.028	0.626	<u>1560</u>	(1850)	= =
1,2-Dichloropropane/ppm	< 0.035	0.00332	<u>0.406</u>	(1.78)	= =
1,3-Dichloropropane/ppm	< 0.025	= =	<u>1490</u>	(1490)	1490*
trans-1,3-Dichloropropene/ppm	< 0.022		<u>1510</u>	(1510)	= =
cis-1,3-Dichloropropene/ppm	< 0.039	0.001	<u>1210</u>	(1210)	= =
Di-isopropyl ether/ppm	< 0.01	= =	<u>2260</u>	(2260)	2260*
EDB (1,2-Dibromoethane)/ppm	< 0.023	0.0000282	<u>0.05</u>	(0.221)	= =
Ethylbenzene/ppm	< 0.035	1.57	<u>8.02</u>	(35.4)	480*
Hexachlorobutadiene/ppm	< 0.085	= =	<u>1.63</u>	(7.19)	= =
Isopropylbenzene/ppm	< 0.034	= =	= =	= =	= =
p-Isopropyltoluene/ppm	< 0.029	= =	<u>162</u>	(162)	162*
Methylene chloride/ppm	< 0.15	0.00256	<u>61.8</u>	(1150)	= =
Methyl tert-butyl ether (MTBE)/ppm	< 0.05	0.027	<u>63.8</u>	(282)	8870*
Naphthalene/ppm	< 0.094	0.6582	<u>5.52</u>	(24.1)	= =
n-Propylbenzene/ppm	< 0.033	= =	= =	= =	= =
1,1,2,2-Tetrachloroethane/ppm	< 0.028	0.000156	<u>0.81</u>	(3.6)	= =
1,1,1,2-Tetrachloroethane/ppm	< 0.028	0.0534	<u>2.78</u>	(12.3)	= =
Tetrachloroethene (PCE)/ppm	< 0.032	0.00454	<u>33</u>	(145)	= =
Toluene/ppm	< 0.032	1.11	<u>818</u>	(818)	818*
1,2,4-Trichlorobenzene/ppm	< 0.064	0.408	<u>24</u>	(113)	= =
1,2,3-Trichlorobenzene/ppm	< 0.066	= =	<u>62.6</u>	(934)	= =
1,1,1-Trichloroethane/ppm	< 0.03	0.1402	= =	= =	= =
1,1,2-Trichloroethane/ppm	< 0.033	0.00324	<u>1.59</u>	(7.01)	= =
Trichloroethene (TCE)/ppm	< 0.041	0.00358	<u>1.3</u>	(8.41)	= =
Trichlorofluoromethane/ppm	< 0.041	2.2387	<u>1230</u>	(1230)	1230*
1,2,4-Trimethylbenzene/ppm	< 0.025		<u>219</u>	(219)	219*
1,3,5-Trimethylbenzene/ppm	< 0.032	1.38	<u>182</u>	(182)	182*
Vinyl Chloride/ppm	< 0.019	0.000138	<u>0.07</u>	(2.08)	= =
m&p-Xylene/ppm	< 0.072				
o-Xylene/ppm	< 0.044	3.96	<u>260</u>	(260)	258*

NS = not sampled, NM = Not Measured
(ppm) = parts per million
= = No Exceedences

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

Note: Non-Industrial RCLs apply to this site.

A.3. Residual Soil Contamination Table
Standard Oil, Hager City (fmr) BRRTS #03-48-109589

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk
TB-1	8.0	U	08/21/96	NM	NS	NS	25	<0.026	0.032	<0.026	NS	<0.026	3	1	2.05	NS			
TB-2	8.0	U	08/21/96	NM	NS	NS	1100	<0.540	1.4	<0.540	NS	<0.540	87	43	72	NS			
TB-3	8.0	U	08/21/96	NM	NS	NS	55	<0.028	<0.028	<0.028	NS	0.150	2.8	1.1	25	NS			
TB-4	7.0	U	08/21/96	NM	NS	260	4900	7.8	92	<1.3	NS	210	(310)*	100	(800)*	NS			
G-2-1	3.5	U	08/28/17	2.4	79.4	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.1985	
G-3-1	3.5	U	08/28/17	2.9	43.9	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-5-1	3.5	U	08/28/17	0.6	28.4	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
Groundwater RCL					27	-	-	0.00512	1.57	0.027	0.6582	1.11	1.38		3.96	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	258	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(258)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-			

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

Italics = Industrial Direct Contact RCL

NS = Not Sampled

NM = Not Measured

(ppm) = parts per million

ND = No Detects

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

VOC's = Volatile Organic Compounds

Note: Non-Industrial RCLs apply to this site.

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

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

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

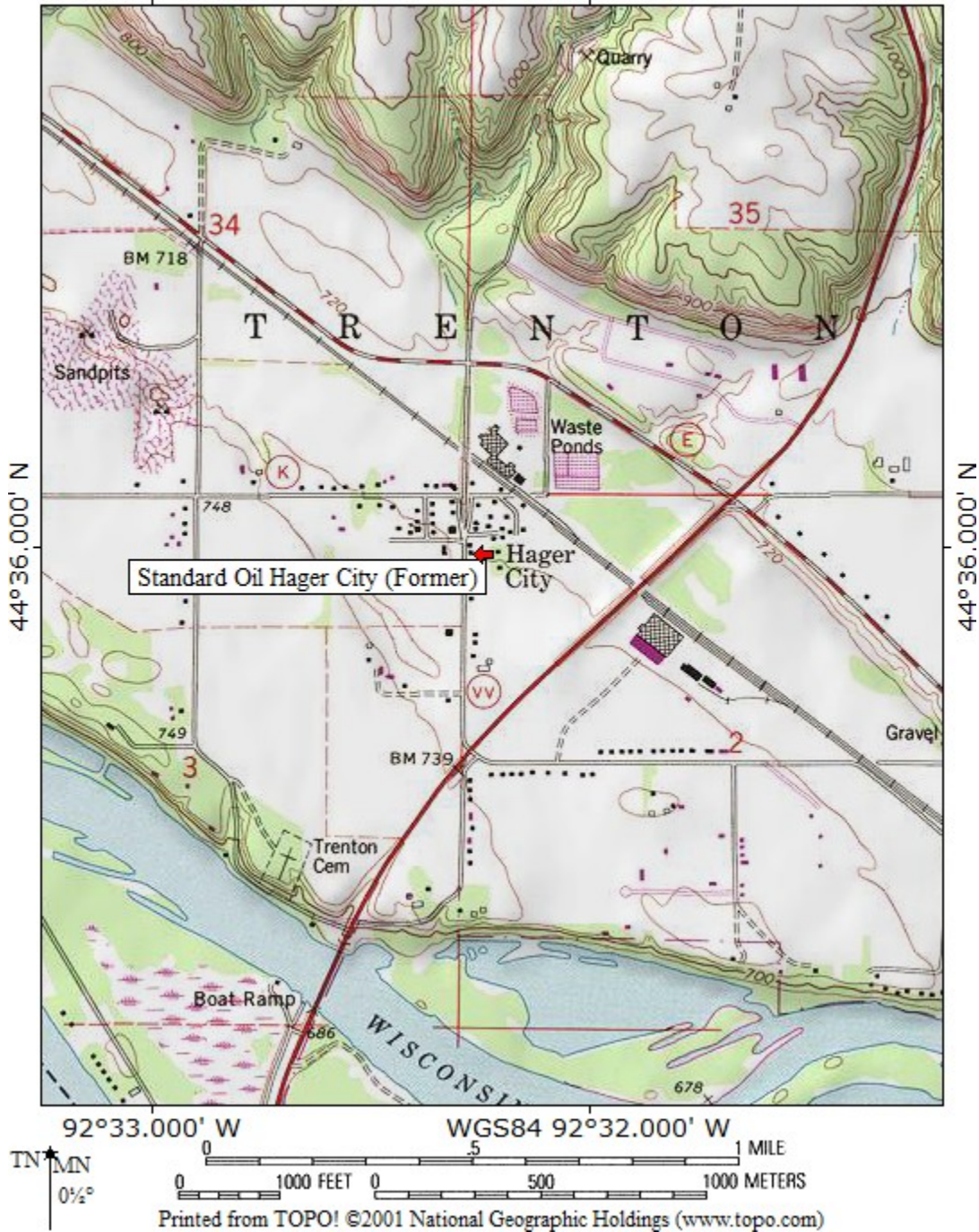
B.4.a Vapor Intrusion Map - No vapor samples were assessed as part of the site investigation.

B.4.b Other media of concern - No surface waters or sediments were assessed as part of the site investigation.


B.4.c Other – Not applicable.

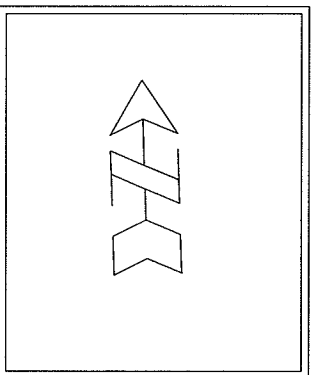
B.5 Structural Impediment Photos – No structural impediments were encountered.

TOPO! map printed on 07/13/17 from "Wisconsin.tpo" and "Untitled.tpg"
92°33.000' W WGS84 92°32.000' W

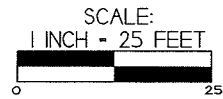


B.1.a LOCATION MAP
CONTOUR INTERVAL 20 FEET
STANDARD OIL HAGER CITY (FORMER) – HAGER CITY, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM

<p>B.I.b. DETAILED SITE MAP STANDARD OIL, HAGER CITY (FORMER)</p>	
 <p>709 GILLETTE ST, STE 3 LA CROSSE, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893 <i>Excellence through experience</i></p>	<p>HAGER CITY, WISCONSIN</p> <p>DRAWN BY: ED DATE: 7/6/17 MODIFIED BY: BK DATE: 1/2/17</p>



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



- - UST SITE ASSESSMENT SOIL SAMPLING LOCATION
- ✕ - UST SITE ASSESSMENT SOIL SAMPLING (PID) LOCATION
- - GEOPROBE BORING LOCATION
- - UTILITY POLE

PROPERTY BOUNDARY (APPROXIMATE)

WATER LINE (APPROXIMATE)

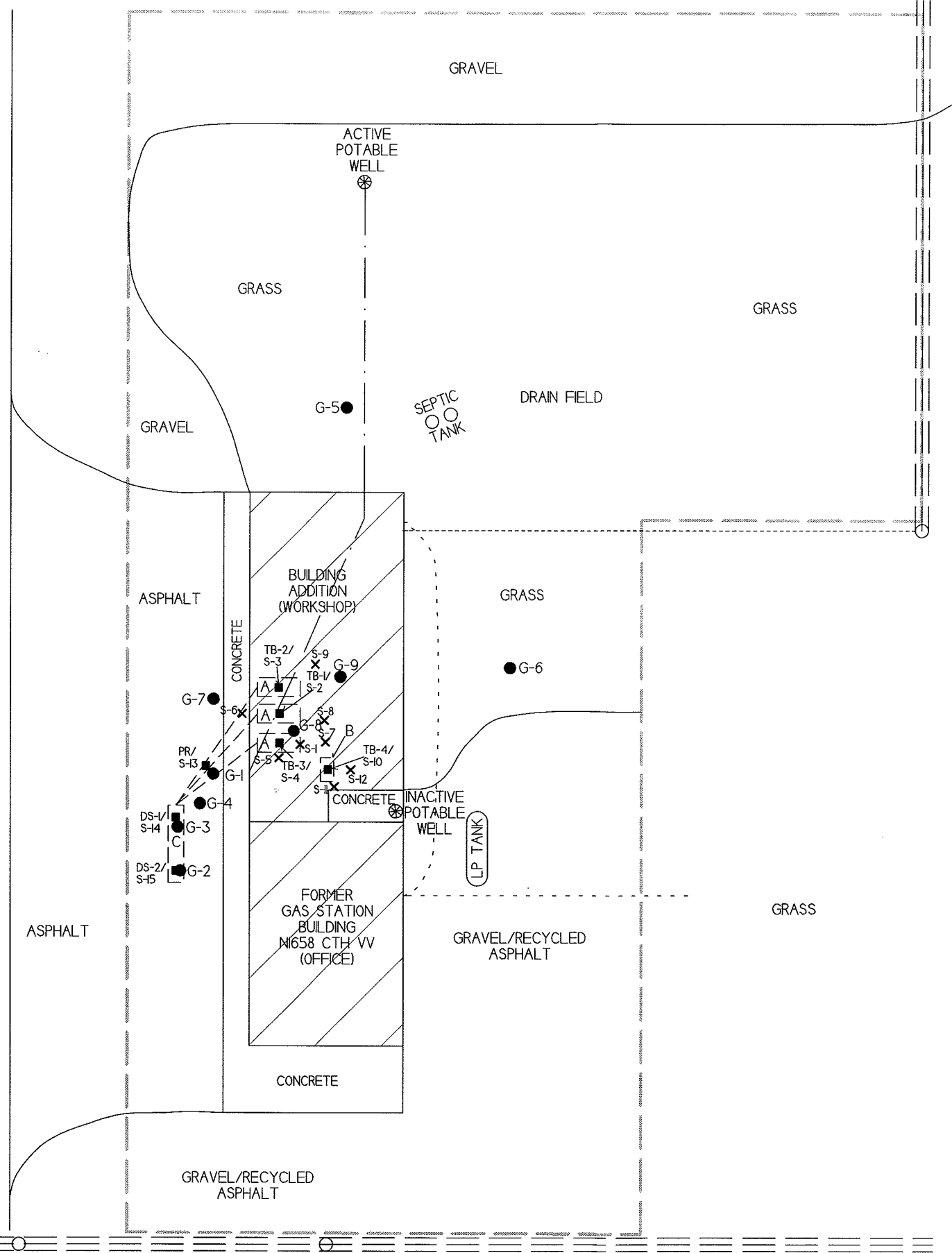
BURIED ELECTRICAL

TELEPHONE/CABLE

OVERHEAD UTILITIES

- KEY TO REMOVED UST SYSTEMS
- A - 560 GALLON GASOLINE UST
 - B - 200 GALLON KEROSENE UST
 - C - FORMER PUMP ISLAND

MAIN STREET/COUNTY HWY W





B.1.c. RR Site Map



Legend

- Open Site (ongoing cleanup)
- Closed Site (completed cleanup)
- Municipality
- State Boundaries
- County Boundaries

Major Roads

- Interstate Highway
- State Highway
- US Highway

County and Local Roads

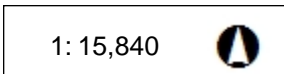
- County HWY
- Local Road

Railroads

- Railroads

Tribal Lands

- Tribal Lands



NAD_1983_HARN_Wisconsin_TM


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

Note: Not all sites are mapped.

Notes

B.2.a. SOIL CONTAMINATION

STANDARD OIL,
HAGER CITY (FORMER)

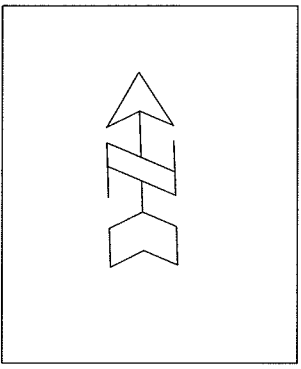


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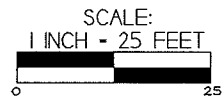
HAGER CITY,
WISCONSIN

DRAWN BY: ED DATE: 7/6/17
MODIFIED BY: BK DATE: 11/2/17

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



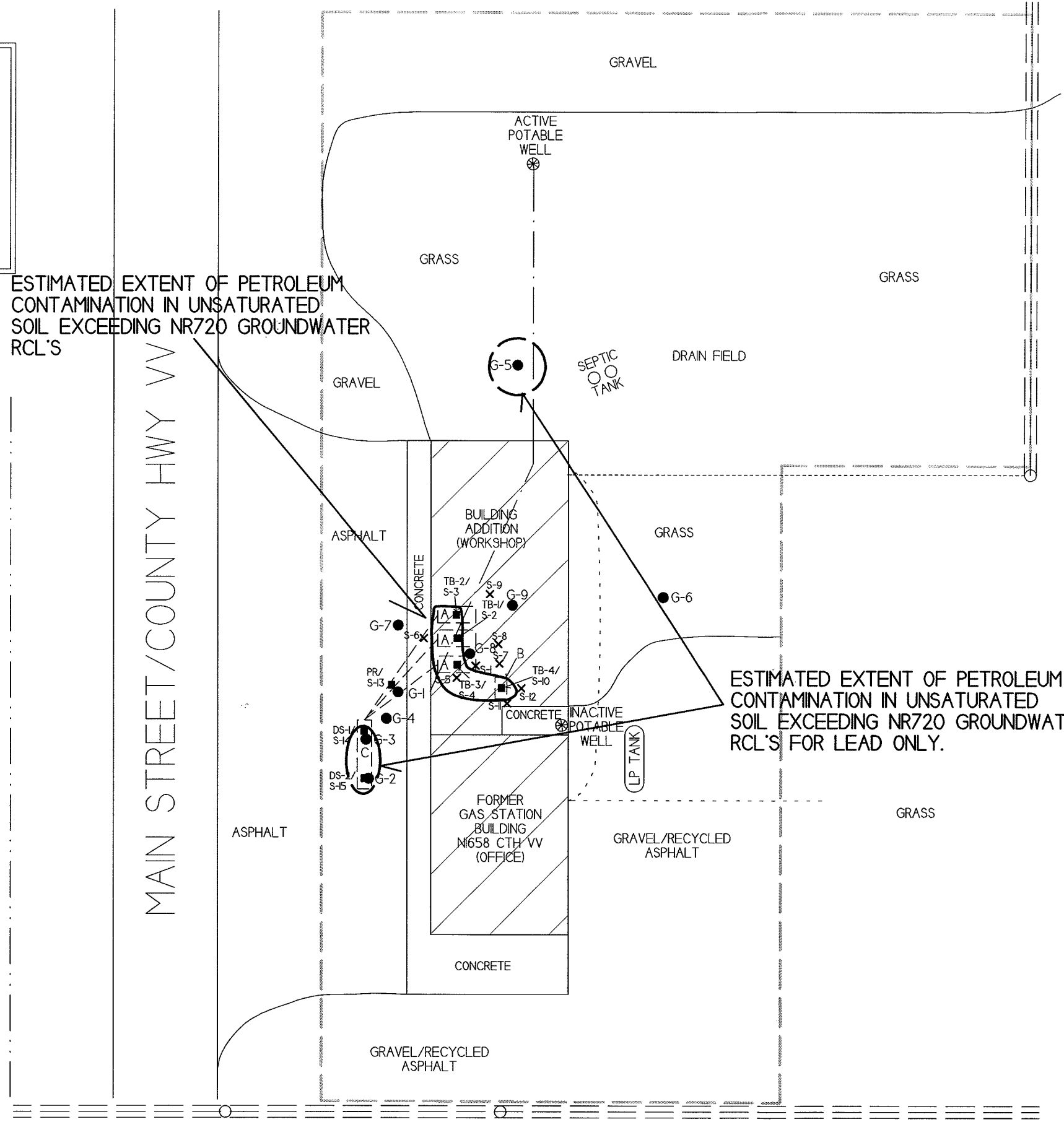
- - UST SITE ASSESSMENT SOIL SAMPLING LOCATION
- ✕ - UST SITE ASSESSMENT SOIL SAMPLING (PID) LOCATION
- - GEOPROBE BORING LOCATION
- - UTILITY POLE

- PROPERTY BOUNDARY (APPROXIMATE) _____
- WATER LINE (APPROXIMATE) _____
- BURIED ELECTRICAL _____
- TELEPHONE/CABLE _____
- OVERHEAD UTILITIES _____

- KEY TO REMOVED UST SYSTEMS
- A - 560 GALLON GASOLINE UST
 - B - 200 GALLON KEROSENE UST
 - C - FORMER PUMP ISLAND

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

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S FOR LEAD ONLY.

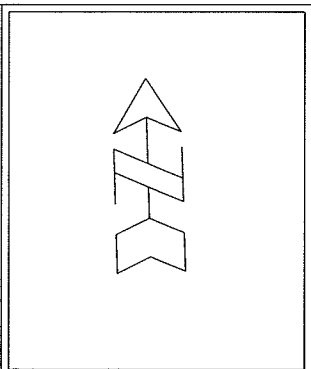


B.2.b. RESIDUAL SOIL CONTAMINATION
STANDARD OIL,
HAGER CITY (FORMER)

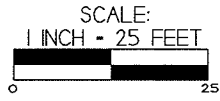
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Fax: (608) 781-8893
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WISCONSIN

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



- - UST SITE ASSESSMENT SOIL SAMPLING LOCATION
- ✕ - UST SITE ASSESSMENT SOIL SAMPLING (PID) LOCATION
- = GEOPROBE BORING LOCATION
- - UTILITY POLE

PROPERTY BOUNDARY (APPROXIMATE)

WATER LINE (APPROXIMATE)

BURIED ELECTRICAL

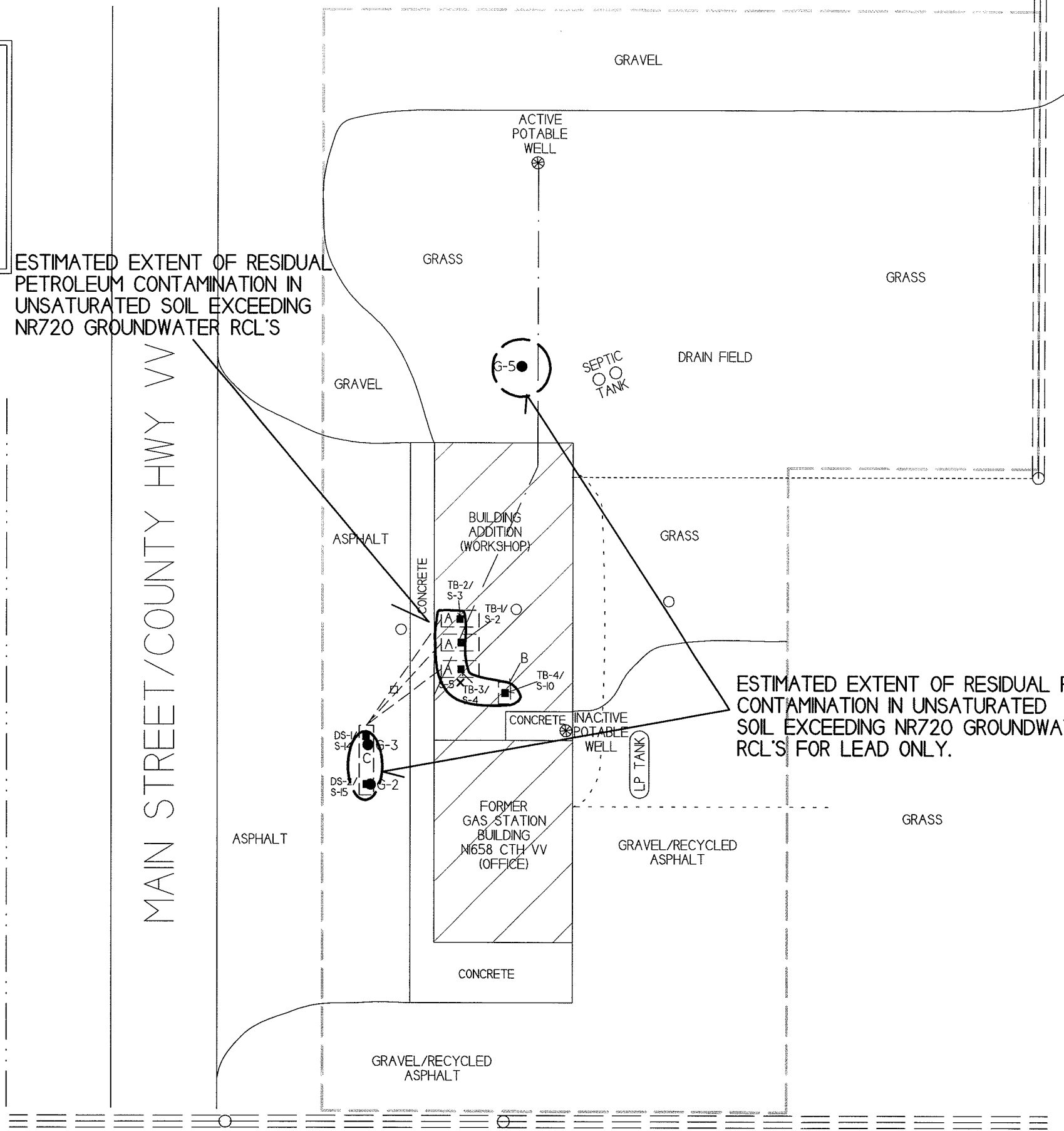
TELEPHONE/CABLE

OVERHEAD UTILITIES

- KEY TO REMOVED UST SYSTEMS
- A - 560 GALLON GASOLINE UST
 - B - 200 GALLON KEROSENE UST
 - C - FORMER PUMP ISLAND


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

ESTIMATED EXTENT OF RESIDUAL PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S FOR LEAD ONLY.



B.3.a. GEOLOGIC CROSS
-SECTION MAP

STANDARD OIL.
HAGER CITY (FORMER)

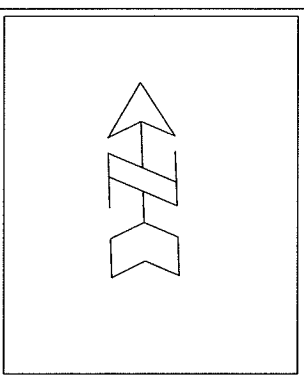


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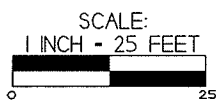
HAGER CITY,
WISCONSIN

DRAWN BY: ED DATE: 7/6/17
MODIFIED BY: BK DATE: 11/2/17

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



- - UST SITE ASSESSMENT SOIL SAMPLING LOCATION
- ✕ - UST SITE ASSESSMENT SOIL SAMPLING (PID) LOCATION
- - GEOPROBE BORING LOCATION
- - UTILITY POLE

PROPERTY BOUNDARY (APPROXIMATE)

WATER LINE (APPROXIMATE)

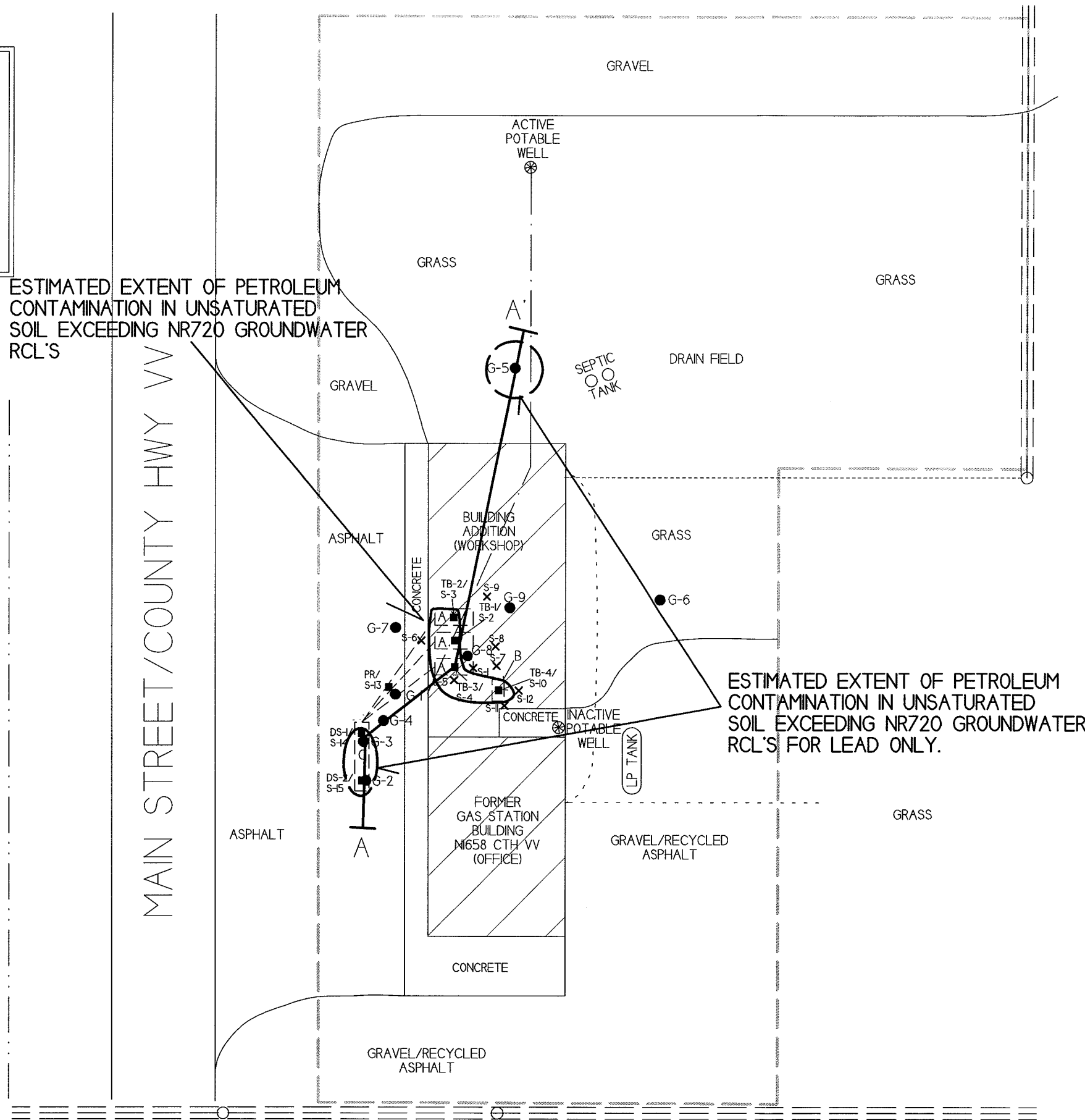
BURIED ELECTRICAL

TELEPHONE/CABLE

OVERHEAD UTILITIES

- KEY TO REMOVED UST SYSTEMS
- A - 560 GALLON GASOLINE UST
 - B - 200 GALLON KEROSENE UST
 - C - FORMER PUMP ISLAND

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



ESTIMATED EXTENT OF PETROLEUM
CONTAMINATION IN UNSATURATED
SOIL EXCEEDING NR720 GROUNDWATER
RCL'S FOR LEAD ONLY.

B.3.a. GEOLOGIC CROSS-SECTION MAP (CLOSE-UP)

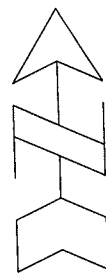
STANDARD OIL,
HAGER CITY (FORMER)



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Tel: (608) 781-8879
Fax: (608) 781-8893

HAGER CITY,
WISCONSIN

DRAWN BY: ED DATE: 7/6/17
MODIFIED BY: BK DATE: 11/2/17



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

■ = UST SITE ASSESSMENT SOIL SAMPLING LOCATION

× = UST SITE ASSESSMENT SOIL SAMPLING (PID) LOCATION

● = GEOPROBE BORING LOCATION

○ = UTILITY POLE

PROPERTY BOUNDARY (APPROXIMATE)

WATER LINE (APPROXIMATE)

BURIED ELECTRICAL

TELEPHONE/CABLE

OVERHEAD UTILITIES

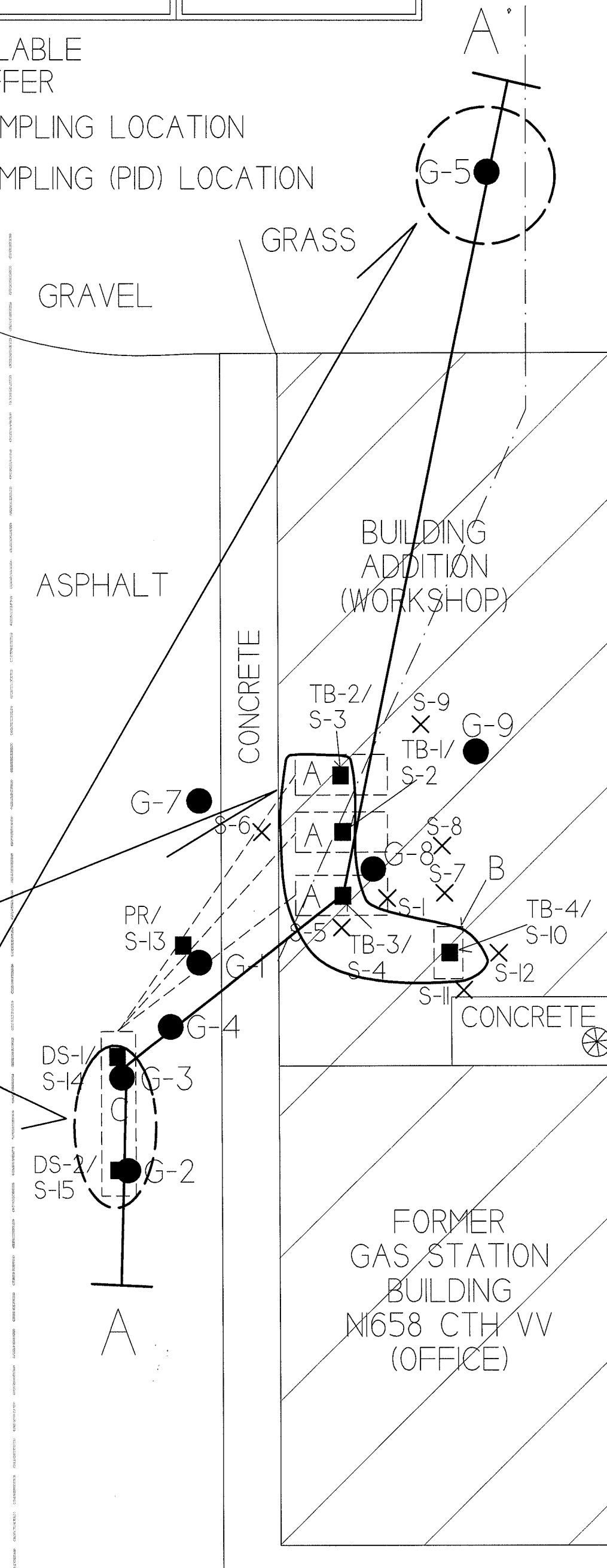
KEY TO REMOVED UST SYSTEMS

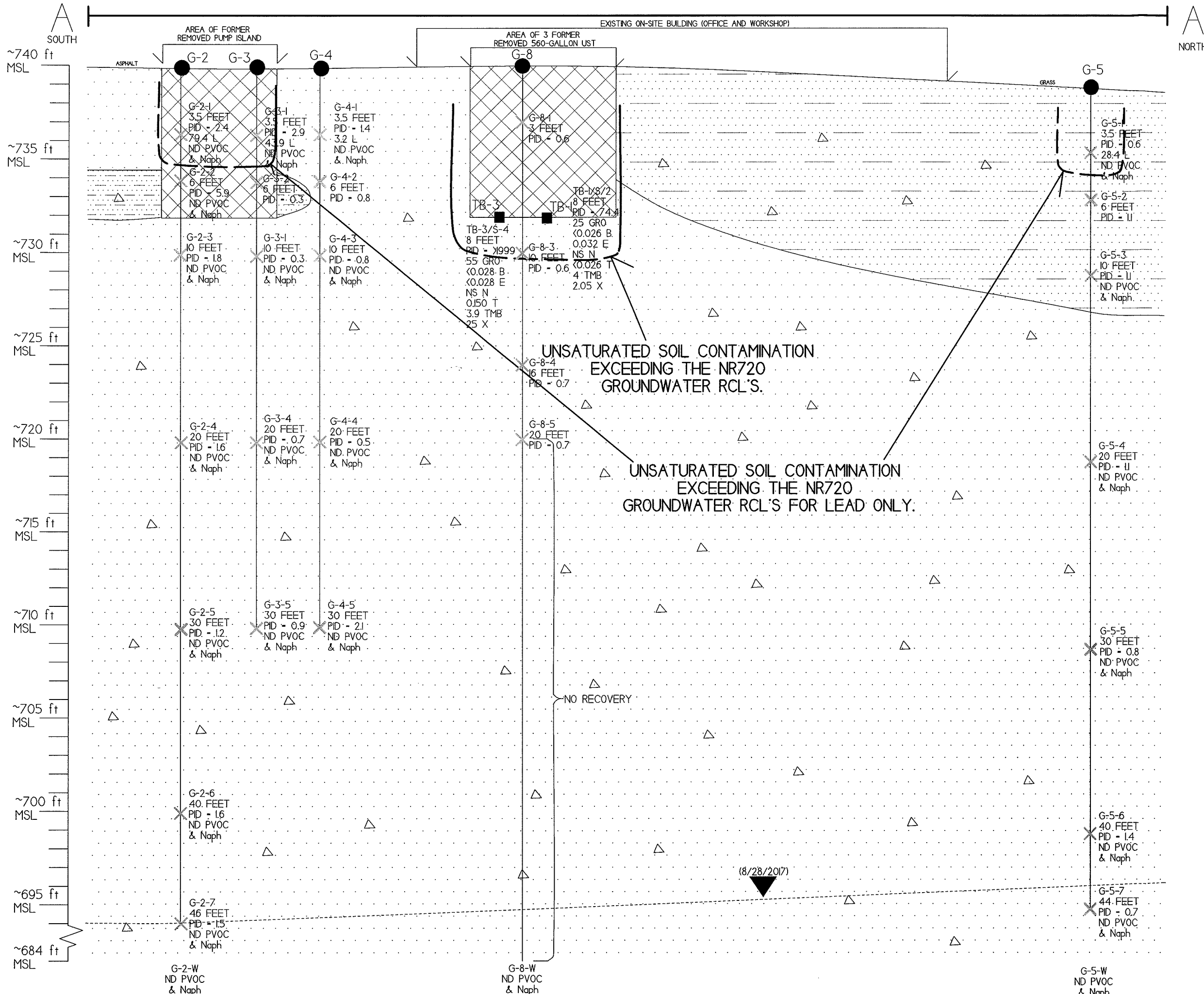
- A = 560 GALLON GASOLINE UST
- B = 200 GALLON KEROSENE UST
- C = FORMER PUMP ISLAND

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

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S FOR LEAD ONLY.

HORIZONTAL SCALE:
1 INCH = 10 FEET



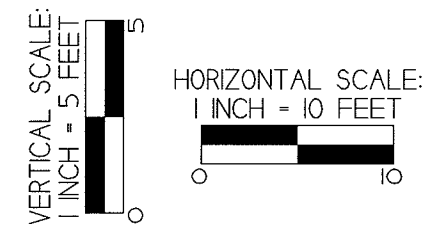


B.3.a. GEOLOGIC CROSS-SECTION FIGURE
STANDARD OIL, HAGER CITY (FORMER)

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Fax: (608) 781-8893

HAGER CITY, WISCONSIN
DRAWN BY: BK DATE: 1/3/17

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



- ▼ - WATERTABLE
- - UST SITE ASSESSMENT SOIL SAMPLING LOCATION
- - GEOPROBE BORING LOCATION
- ✕ - SOIL SAMPLING LOCATION

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 AND GROUNDWATER 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: UST REMOVAL - (8/21/1996) GEOPROBE PROJECT - (8/28/2017)

- PID - PHOTO IONIZATION DETECTOR
- PVOC - PETROLEUM VOLATILE ORGANIC COMPOUNDS
- L - LEAD
- B - BENZENE
- E - ETHYLBENZENE
- N - NAPHTHALENE
- T - TOLUENE
- TMB - TRIMETHYLBENZENE
- X - XYLENE
- NS - NOT SAMPLED
- ND - NO DETECT

- FILL MATERIALS (SAND AND GRAVEL)
- RED FINE TO VERY COARSE GRAINED CLAYEY SAND WITH GRAVEL
- BROWN SILTY/CLAYEY VERY FINE TO FINE GRAINED SAND WITH GRAVEL
- RED FINE TO VERY COARSE GRAINED SAND WITH GRAVEL

Attachment C/Documentation of Remedial Action

C.1 Site Investigation documentation – All site investigation activities are documented in the following reports:

- Tank Closure Site Assessment – February 2, 1998
- Site Investigation Report – April 3, 2018
- Case Closure Report – April, 3, 2018

Since the last submittal to the WDNR, two additional Geoprobe borings were completed on July 3, 2018 with soil and groundwater samples collected. Included in C.1. are the laboratory report, soil boring logs, and borehole abandonment forms.

C.2 Investigative waste - No investigative waste was generated as part of this site investigation.

C.3 Provide a description of the methodology used along with all supporting documentation if the Residual Contaminant Levels are different than those contained in the Department's RCL Spreadsheet available at: <http://dnr.wi.gov/topic/brownfields.Professionals.html/> - Residual Contaminant Levels (RCLs) were established in accordance with NR 720.10 and NR 720.12. Soil RCL for the protection of the groundwater pathway and for non-industrial direct contact were taken from the RR programs RCL spreadsheet.

C.4 Construction documentation – No remedial systems were installed.

C.5 Decommissioning of Remedial Systems – No remedial systems were installed.

C.6 Other – Not Applicable

C.1

Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

RYAN DODGE C/O METCO
METCO
709 GILLETTE ST
LA CROSSE, WI 54603-2382

Report Date 24-Jul-18

Project Name STANDARD OIL HAGE CITY FMR
Project #

Invoice # E34895

Lab Code 5034895A
Sample ID MEOH BLK
Sample Matrix Soil
Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		7/16/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		7/16/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		7/16/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/16/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/16/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/16/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		7/16/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		7/16/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		7/16/2018	CJR	1

Lab Code 5034895B
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		7/15/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/15/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/15/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/15/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		7/15/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/15/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		7/15/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		7/15/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/15/2018	CJR	1

Project Name STANDARD OIL HAGE CITY FMR
Project #

Invoice # E34895

Lab Code 5034895C
Sample ID G-8-1
Sample Matrix Soil
Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.1	%			1	5021		7/10/2018	NJC	1
Inorganic										
Metals										
Lead, Total	3.92	mg/Kg	0.17	0.58	1	6010B		7/17/2018	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		7/17/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		7/17/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		7/17/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/17/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/17/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/17/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		7/17/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		7/17/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		7/17/2018	CJR	1

Lab Code 5034895D
Sample ID G-8-3
Sample Matrix Soil
Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	96.2	%			1	5021		7/10/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		7/17/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		7/17/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		7/17/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/17/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/17/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/17/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		7/17/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		7/17/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		7/17/2018	CJR	1

Project Name STANDARD OIL HAGE CITY FMR
 Project #

Invoice # E34895

Lab Code 5034895E
 Sample ID G-8-W
 Sample Matrix Water
 Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		7/15/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/15/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/15/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/15/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		7/15/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/15/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		7/15/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		7/15/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/15/2018	CJR	1

Lab Code 5034895F
 Sample ID G-9-1
 Sample Matrix Soil
 Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.7	%			1	5021		7/10/2018	NJC	1
Inorganic										
Metals										
Lead, Total	9.21	mg/Kg	0.17	0.58	1	6010B		7/17/2018	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		7/17/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		7/17/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		7/17/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/17/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/17/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/17/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		7/17/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		7/17/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		7/17/2018	CJR	1

Project #

Lab Code 5034895G
 Sample ID G-9-2
 Sample Matrix Soil
 Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	95.5	%			1	5021		7/10/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		7/18/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		7/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		7/18/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/18/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		7/18/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		7/18/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		7/18/2018	CJR	1

Lab Code 5034895H
 Sample ID G-9-3
 Sample Matrix Soil
 Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	98.0	%			1	5021		7/10/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		7/18/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		7/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		7/18/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/18/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		7/18/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		7/18/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		7/18/2018	CJR	1

Project Name STANDARD OIL HAGE CITY FMR
Project #

Invoice # E34895

Lab Code 5034895I
Sample ID G-9-5
Sample Matrix Soil
Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	96.7	%			1	5021		7/10/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		7/18/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		7/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		7/18/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/18/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		7/18/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		7/18/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		7/18/2018	CJR	1

Lab Code 5034895J
Sample ID G-9-8
Sample Matrix Soil
Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	97.9	%			1	5021		7/10/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		7/18/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		7/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		7/18/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/18/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		7/18/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		7/18/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		7/18/2018	CJR	1

Project Name STANDARD OIL HAGE CITY FMR
Project #

Invoice # E34895

Lab Code 5034895K
Sample ID G-9-10
Sample Matrix Soil
Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	97.5	%			1	5021		7/10/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		7/18/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		7/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		7/18/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/18/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		7/18/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		7/18/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		7/18/2018	CJR	1

Lab Code 5034895L
Sample ID G-9-11
Sample Matrix Soil
Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.2	%			1	5021		7/10/2018	NJC	1
Inorganic										
Metals										
Lead, Total	2.03	mg/Kg	0.17	0.58	1	6010B		7/17/2018	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		7/18/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		7/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		7/18/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/18/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		7/18/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		7/18/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		7/18/2018	CJR	1

Project Name STANDARD OIL HAGE CITY FMR
 Project #

Invoice # E34895

Lab Code 5034895M
 Sample ID G-9-W
 Sample Matrix Water
 Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		7/15/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/15/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/15/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/15/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		7/15/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/15/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		7/15/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		7/15/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/15/2018	CJR	1

Lab Code 5034895N
 Sample ID G-8-5
 Sample Matrix Soil
 Sample Date 7/3/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	97.5	%			1	5021		7/11/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		7/20/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		7/20/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		7/20/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/20/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		7/20/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/20/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		7/20/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		7/20/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		7/20/2018	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code **Comment**

1 Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Michael Ricker

CHAIN OF CUSTODY RECORD

Chain # No 364

Page 2 of 2

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request
Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)
 Normal Turn Around

Lab ID: _____

Account No.: _____ Quote No.: _____

Project #: _____

Sampler: (signature) *Yuan [Signature]*

Project (Name / Location): *Standard Oil*

Reports To: *Ryan Dodge*

Company: *SEE PAGE 1*

Address: *SEE PAGE 1*

City State Zip: *SEE PAGE 1*

Phone: _____

FAX: _____

Invoice To: *Ryan Dodge*

Company: *CLB METCO*

Address: _____

City State Zip: _____

Phone: _____

FAX: _____

Analysis Requested		Other Analysis	
DRO (Mod DRO Sep 95)			
GRO (Mod GRO Sep 95)	X		
LEAD			
NITRATE/NITRITE			
OIL & GREASE			
PAH (EPA 8270)			
PCB			
PVOC (EPA 8021)			
PVOC + NAPHTHALENE	XXX		
SULFATE			
TOTAL SUSPENDED SOLIDS			
VOC DW (EPA 524.2)			
VOC (EPA 8260)			
8-FCRA METALS			

Lab ID	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
50-48-SK	6-9-10	7-3	11:10	X	N	N	2	S	MEDH
6	6-9-11	7-3	11:15	↓	↓	↓	5	↓	MEDH, Done
6	6-9-W	7-3	11:30	↓	↓	↓	3	GW	HCL

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

SEE PAGE 1

Relinquished By: (sign) *Kayla Felix* Time *3:30* Date *7-3*

Received By: (sign) _____ Time _____ Date _____

Received in Laboratory By: *[Signature]* Time: *8:00* Date: *7/6/18*

Sample Integrity: To be completed by receiving lab.
Method of shipment: *UC*
Temp. of shipment: Blank On Ice
Cooler seal intact upon receipt: Yes No

Route To:

Watershed / Wastewater:
Remediation / Redevelopment: **X**

Waste Management:
Other:

Facility / Project Name Standard Oil, Hagar City (Former)		License / Permit / Monitoring Number		Boring Number G-8	
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 07/03/2018 MM/DD/YYYY		Drilling Date Completed 07/03/2018 MM/DD/YYYY	
Drilling Method Geoprobe		Final Static Water Level 696.5 feet MSL		Surface Elevation 740 feet MSL	
Borehole Diameter 2 inches		Local Grid Origin (estimated X) or Boring Location State Plane N, E NW ¼ of NW ¼ of Section 2, T 24 N, R 18 W		Local Grid Location N, E Feet S Feet W	
Facility ID 648056200		County Pierce		County Code 48	
				Civil Town / City / Village Hagar City (Town of Trenton)	

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	Soil Properties						P 200	RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index			
G-8-1 (3 feet)	48 36			Concrete											
				Brown to tan silty sand, very fine grained.	SM			0.6			M				No petro odor
G-8-2 (4-8)	48 0		6	No recovery.											No petro odor
G-8-3 (10 feet)	48 36		12	Brown to red graveley sand, medium to coarse grained.	SP			0.6			M				No petro odor
G-8-4 (16 feet)	48 36		18	Brown to red coarse sand.	SW			0.7			M				No petro odor
G-8-5 (20 feet)	48 6		24	Brown to red coarse sand.	SW			0.7			M				No petro odor
G-8-6 (20-24)	48 0		30	No recovery.											
G-8-7 (24-28)	48 0		36	No recovery.											
G-8-8 (25-32)	48 0		42	No recovery.											
G-8-9 (32-36)	48 0		48	No recovery.											
G-8-10 (36-40)	48 0		54	No recovery.											
G-8-11 (40-44)	48 0			No recovery.											
G-8-12 (44-48)	48 0			No recovery.											
G-8-13 (48-52)	48 0			No recovery.											
G-8-14 (52-56)	48 0			No recovery.											
				EOB at 56 feet bgs. Groundwater sample G-8-W collected at 43-48 feet. Borehole abandoned.											

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature:

Firm: **METCO**

Route To:

Watershed / Wastewater:
Remediation / Redevelopment:

Waste Management:
Other:

Facility / Project Name Standard Oil, Hagar City (Former)		License / Permit / Monitoring Number		Boring Number G-9
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 07/03/2018 MM/DD/YYYY	Drilling Date Completed 07/03/2018 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 696.5 feet MSL	Surface Elevation 740 feet MSL
Local Grid Origin (estimated X) or Boring Location			Local Grid Location	
State Plane N, E		Lat 44° 35' 60 N	N E	
NW ¼ of NW ¼ of Section 2, T 24 N, R 18 W		Long 92° 32' 16.5 W	Feet S Feet W	
Facility ID 648056200	County Pierce	County Code 48	Civil Town / City / Village Hagar City (Town of Trenton)	

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	Soil Properties					P 200	RQD / Comments	
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index			
G-9-1 (3 feet)	48 24			Concrete.											
				Brown to tan silty sand, medium to fine grained.	SM			0.8		M					No petro odor
G-9-2 (6 feet)	48 36		6	Red to brown gravelly sand, coarse grained.				0.8		M					No petro odor
G-9-3 (10 feet)	48 48		12	Red to brown gravelly sand, coarse grained.	SP			1.1		M					No petro odor
G-9-4 (16 feet)	48 36		18	Red to brown gravelly sand, coarse grained.	SP			1.4		M					No petro odor
G-9-5 (20 feet)	48 44		20	Red to brown gravelly sand, coarse grained. Rare cobbles.	SP			1.0		M					No petro odor
G-9-6 (24 feet)	48 44		24	Red to brown gravelly sand, coarse grained. No cobbles. 25-26 feet: Gravel with coarse sand.	SP SP										
G-9-7 (28 feet)	48 36		28	26-28 feet: Tan very fine sand.	SW			1.2		M					No petro odor
G-9-8 (30 feet)	48 48		30	Tan to brown medium to coarse grained sand.	SW			0.9		M					No petro odor
G-9-9 (36 feet)	48 36		36	Tan to brown medium to coarse grained sand.	SW			1.0		M					No petro odor
G-9-10 (40 feet)	48 44		40	Tan to brown very coarse sand.	SW			0.5		M					No petro odor
G-9-11 (44 feet)	48 40		42	Tan to brown very coarse sand.	SW			0.2		W					No petro odor
G-9-12 (48 feet)	48 12		48	Tan to brown very coarse sand.	SW			1.3		W					No petro odor
			54	EOB at 48 feet bgs. Groundwater sample G-9-W collected at 43-48 feet. Borehole abandoned.											

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature:

Firm: **METCO**

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:
 Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County PIERCE		WI Unique Well # of Removed Well		Facility Name Standard Oil, Hager City (Form		Facility ID (FID or PWS)	
Latitude / Longitude (Degrees and Minutes) 44 ° 36 ' N 92 ° 32.2667 ' W		Method Code (see instructions)		License/Permit/Monitoring #		Original Well Owner Ryan Dodge	
1/4 1/4 NW or Gov't Lot #		Section 2	Township 24 N	Range 18	Present Well Owner Ryan Dodge		Mailing Address of Present Owner N1658 CTH VV
Well Street Address N1658 County Hwy VV				City of Present Owner Hager City			
Well City, Village or Town Hager City				State WI			
Subdivision Name				ZIP Code 54014-			

3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
Reason For Removal From Service Sampling Complete		WI Unique Well # of Replacement Well		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 7/3/2018		Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole		Construction Type:		Casing left in place?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		Was casing cut off below surface?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Other (specify): Geoprobe		<input type="checkbox"/> Dug		Did sealing material rise to surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type:		<input checked="" type="checkbox"/> Unconsolidated Formation		Did material settle after 24 hours?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft.) 56		If yes, was hole retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) 2		Casing Diameter (in.)		If bentonite chips were used, were they hydrated with water from a known safe source?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Casing Depth (ft.)		Was well annular space grouted?		Required Method of Placing Sealing Material			
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		If yes, to what depth (feet)?		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Depth to Water (feet)		Depth to Water (feet)		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): Gravity			

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Pounds
Bentonite Chips	Surface	56	84

6. Comments
G-8
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Kaylin Felix/METCO		License #	Date of Filling & Sealing (mm/dd/yyyy) 7/3/2018	Date Received	Noted By
Street or Route 709 Gillette Street		Telephone Number (608) 781-8879		Comments	
City La Crosse	State WI	ZIP Code 54603-	Signature of Person Doing Work	Date Signed 7/18/2018	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:
 Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County PIERCE		WI Unique Well # of Removed Well	Hicap #	Facility Name Standard Oil, Hager City (Form)			
Latitude / Longitude (Degrees and Minutes) 44 ° 36 ' N 92 ° 32.2667 ' W		Method Code (see instructions)		Facility ID (FID or PWS)			
1/4 NW or Gov't Lot #		Section 2	Township 24 N	Range 18	License/Permit/Monitoring #		
Well Street Address N1658 County Hwy VV		Township 24 N		Range 18	Original Well Owner Ryan Dodge		
Well City, Village or Town Hager City		Well ZIP Code 54014-		Present Well Owner Ryan Dodge			
Subdivision Name		Lot #		Mailing Address of Present Owner N1658 CTH VV			
				City of Present Owner Hager City	State WI	ZIP Code 54014-	

3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
Reason For Removal From Service Sampling Complete		WI Unique Well # of Replacement Well		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 7/3/2018		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Other (specify): Geoprobe				Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.) 48		Casing Diameter (in.)		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Lower Drillhole Diameter (in.) 2		Casing Depth (ft.)		If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				Required Method of Placing Sealing Material			
If yes, to what depth (feet)?				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Depth to Water (feet)				<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): Gravity			

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Pounds
Bentonite Chips	Surface	48	72

6. Comments
G-9
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Kaylin Felix/METCO		License #	Date of Filling & Sealing (mm/dd/yyyy) 7/3/2018	Date Received	Noted By
Street or Route 709 Gillette Street		Telephone Number (608) 781-8879		Comments	
City La Crosse	State WI	ZIP Code 54603-	Signature of Person Doing Work	Date Signed 7/18/2018	

Attachment D/Maintenance Plan(s)

D.1 Descriptions of maintenance action(s) required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required via cap maintenance plan. - A cap maintenance plan is not required at this time.

D.2 Location map(s) - A cap maintenance plan is not required at this time.

D.3 Photographs - A cap maintenance plan is not required at this time.

D.4 Inspection log - A cap maintenance plan is not required at this time.

Attachment E/Monitoring Well Information

No monitoring wells were installed as part of the site investigation.

Attachment F/Source Legal Documents

F.1 Deed

F.2 Certified Survey Map

F.3 Verification of Zoning

F.4 Signed Statement

F.I. Reed - Source
Property

484015

STATE BAR OF WISCONSIN FORM 5-2000
PERSONAL REPRESENTATIVE'S
DEED

PIERCE COUNTY
REGISTER OF DEEDS
VICKI J NELSON

PAGES: 2
PER
RECORDING FEE: 13.00

05/12/2006 09:15AM

Document Number

Rochelle Gilliland, as Personal Representative of the estate of

Russell R. Mohr ("Decedent"),
for a valuable consideration conveys, without warranty, to Hager City Glass, LLC
a Wisconsin limited liability company

Grantee,
the following described real estate in Pierce County, State of
Wisconsin (the "Property") (if more space is needed, please attach addendum):

See attached Exhibit A

TRANSFER
\$ 144.00
FEE

W-7
Recording Area

Name and Return Address

Amann and Associates
245 North Broadway Street, P.O. Box 70
Ellsworth, Wisconsin 54011
(715) 273-4242

030224180222U28B
Parcel Identification Number (PIN)

Personal Representative by this deed does convey to Grantee all of the
estate and interest in the Property which the Decedent had immediately prior to
Decedent's death, and all of the estate and interest in the Property which the
Personal Representative has since acquired.

Grantor certifies that she is the duly appointed personal representative, that she is acting within the course and scope of
her appointment, and that she has full and unrestricted authority to make this conveyance.

Dated this 13th day of April, 2006

ESTATE OF RUSSELL R. MOHR

Rochelle Gilliland, PR

*
Personal Representative

* Rochelle Gilliland

Personal Representative

AUTHENTICATION

ACKNOWLEDGMENT

Signature(s) *Rochelle Gilliland*

STATE OF WISCONSIN)

authenticated this 13th day of April, 2006

) ss.

County)

Personally came before me this _____ day of
_____, _____ the above named

T. Gregory Amann

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

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

THIS INSTRUMENT WAS DRAFTED BY

*
Notary Public, State of Wisconsin
My Commission is permanent. (If not, state expiration date: _____.)

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

*Names of persons signing in any capacity must be typed or printed below their signature.

F.I. Reed - Source
Property

A part of the NW 1/4 of the NW 1/4 of Section 2, Township 24 North, Range 18 West, Town of Trenton, Pierce County, Wisconsin, described as follows: Commencing at a point on the East limits of the State and Federal Highway which runs along the West side of said forty, which point is 707 feet North of the SW corner of said forty, thence East 70 feet, thence North 140 feet, thence West 70 feet, thence South 140 feet to the place of beginning. Subject to easements, if any, of record.

ALSO Lot 9, in Block 6, in the Village of Hager, and part of the NW 1/4 of the NW 1/4 of Section 2, Township 24 North, Range 18 West, Town of Trenton, Pierce County, Wisconsin, described as follows: Commencing in the SW corner of Lot 9, in Block 6 in the Village of Hager, Pierce County, Wisconsin, thence South 35 feet, thence East 140 feet, thence North 35 feet, thence West 140 feet to the place of beginning.

ALSO A part of the NW 1/4 of the NW 1/4 of Section 2, Township 24 North, Range 18 West, described as follows, to wit: Beginning on the East limits of the State and Federal Highway in the SW corner of the above described forty, thence North 707 feet along the Easterly line of said Highway, thence East 70 feet, thence North 134 feet, for the place of beginning of the premises hereby conveyed; thence East parallel to the South line of said forty, 80 feet, thence North 31 feet, thence West 80 feet, thence South 31 feet to the place of beginning. Said premises are part of the platted area of the Village of Hager.

ALSO

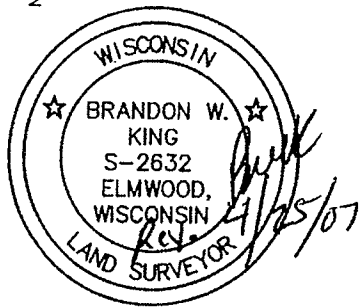
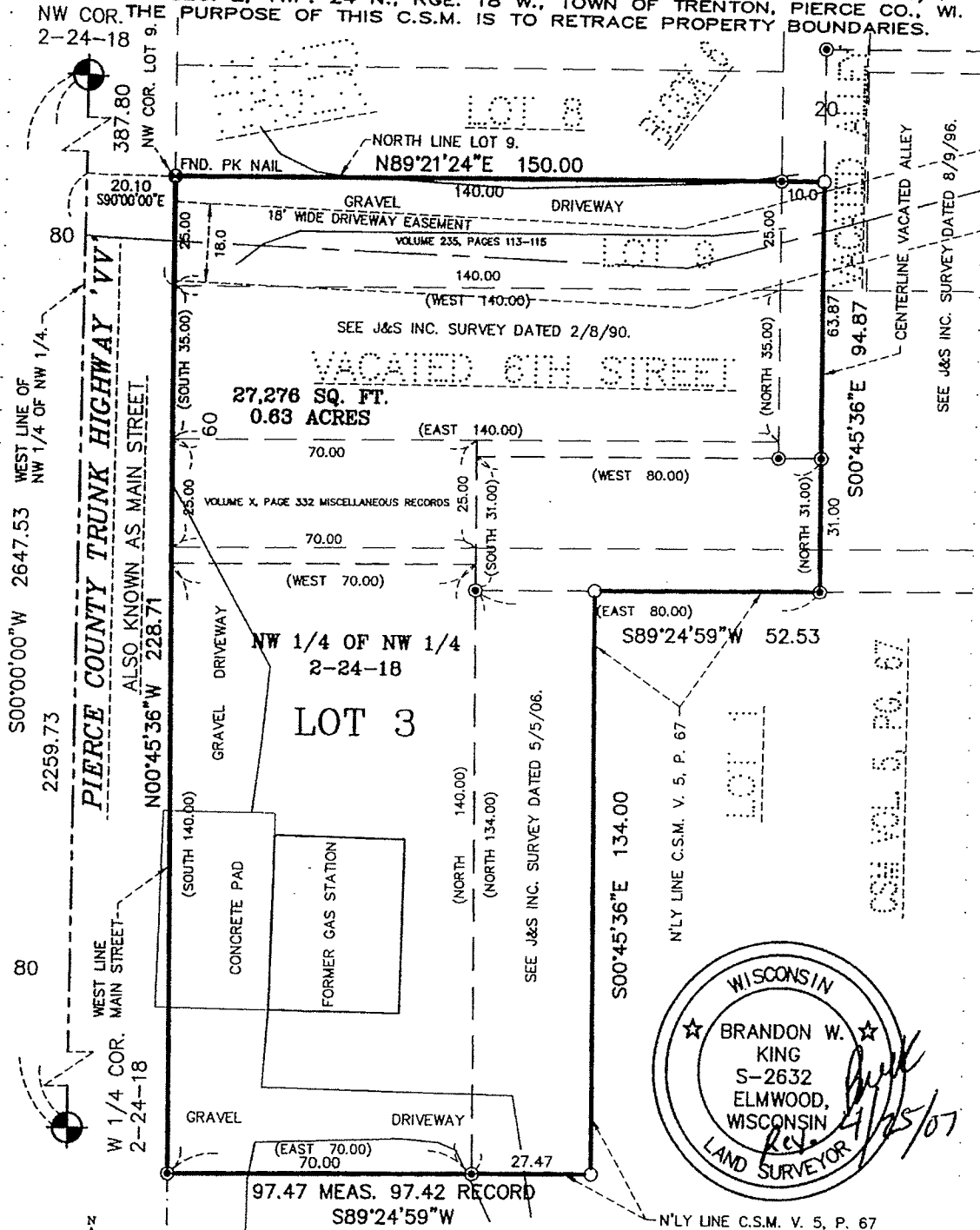
That portion of vacated 6th Street described as follows: A parcel approximately 25 feet North and South by 70 feet East and West as recorded in Volume X, Page 332 Miscellaneous records.

EXCEPT parcel described in Volume 235 of Records, Page 113 as Document #326154.

F.Z. Certified
Survey Map

CERTIFIED SURVEY MAP

FOR COREY & RYAN DODGE, LOCATED IN THE NW 1/4 OF THE NW 1/4 OF SEC. 2, TWP. 24 N., RGE. 18 W., TOWN OF TRENTON, PIERCE CO., WI. THE PURPOSE OF THIS C.S.M. IS TO RETRACE PROPERTY BOUNDARIES.



OWNER: COREY & RYAN DODGE
N1658 CTH 'W' HAGER CITY WI 54014

- DENOTES A FOUND 1" IRON PIPE.
- DENOTES A PLACED 1" BY 18" IRON PIPE WEIGHING 1.13 LBS. PER LINEAL FT.
- ⊙ DENOTES FOUND COUNTY MONUMENT, (FND CIM).



THE WEST LINE OF THE NW 1/4 OF THE NW 1/4 OF SEC. 2 BEARS S00°00'00"W.

Vol. 110, 140

F. Z. Certified
Survey Map

SURVEYOR'S CERTIFICATE

I, Brandon W. King, Wisconsin Professional Land Surveyor, hereby certify: That I have surveyed, divided and mapped a parcel of land located in the Northwest Quarter of the Northwest Quarter of Section 2, Township 24 North, Range 18 West, Town of Trenton, Pierce County, Wisconsin, also being a part of Lot 9, Block 6, vacated 6th Street and the vacated Alley lying within said Block 6, all located in HAGER, according to the recorded plat thereof, on file in the Register of Deeds Office, described as follows:

Commencing at the northwest corner of said Section 2; thence South 00 degrees 00 minutes 00 seconds West, assumed bearing, along the west line of said Northwest Quarter of the Northwest Quarter, a distance of 387.80 feet; thence South 90 degrees 00 minutes 00 seconds East, a distance of 20.10 feet to the northwest corner of said Lot 9, also being on the east line of Main Street, as platted and designated in said HAGER and also being the point of beginning of the land to be described; thence North 89 degrees 21 minutes 24 seconds East, along the north line of said Lot 9 and its easterly extension, a distance of 150.00 feet to the centerline of said vacated alley; thence South 00 degrees 45 minutes 36 seconds East, along said centerline and its southerly extension, a distance of 94.87 feet to the northerly line of that certain Certified Survey Map, recorded in Volume 5 of Certified Survey Maps, Page 67; thence South 89 degrees 24 minutes 59 seconds West, along said north line, a distance of 52.53 feet to an angle point in said north line; thence South 00 degrees 45 minutes 36 seconds East, along said north line, a distance of 134.00 feet to an angle point in said north line; thence South 89 degrees 24 minutes 59 seconds West, along said north line, a distance of 97.47 feet to the east line of said Main Street; thence North 00 degrees 45 minutes 35 seconds West, along said east line, a distance of 228.71 feet to the point of beginning.

Subject to all easements and restrictions of record.

That I have made such survey, land division and map by the direction of Corey and Ryan Dodge, owners of said land, that such map is a correct representation of the exterior boundaries of the land surveyed and the map made thereof, that I have fully complied with the provisions of the Pierce County Subdivision Ordinance and Chapter 236 of the Wisconsin Statutes in surveying, dividing and mapping the same.

Brandon W. King

Brandon W. King
WI Professional Land Surveyor S-2632
Revised 25 April 2007

493017

APPROVED BY:

Signature *James Klumbant*

Date *April 25, 2007*

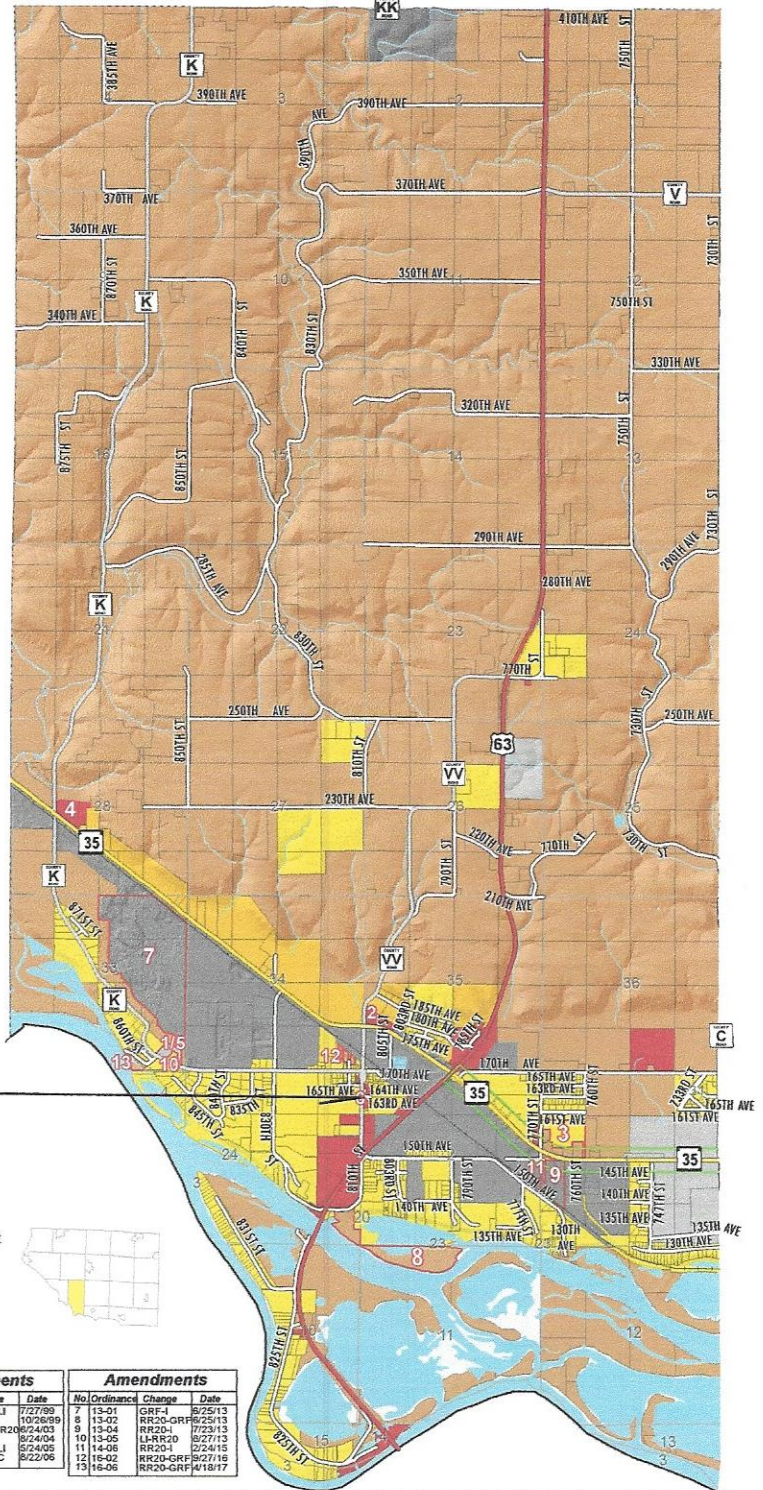
PIERCE COUNTY
REGISTER OF DEEDS
VICKI J NELSON

PAGES: 2
CSM
RECORDING FEE: 13.00
Vol. 11 p. 160
04/25/2007 08:00AM



F.3. Verification of Zoning

TOWN OF TRENTON - ZONING



N1658 County Road VV

- Commercial
- General Rural Flex.
- Industrial
- Light - Industrial
- Rural Residential-20
- Rural Residential-8
- 350ft Scenic Easement
- Amendments



Amendments			Amendments				
No.	Ordinance	Change	Date	No.	Ordinance	Change	Date
1	99-05	RR20-L1	7/27/99	7	13-01	GRF-L	5/25/13
2	99-05	RR-C	10/30/99	8	13-02	RR20-GRF	5/25/13
3	03-07	GRF-RR20	8/24/03	9	13-04	RR20-L	7/23/13
4	04-08	RRS-C	5/24/04	10	13-05	LL-RR20	5/27/13
5	05-02	RR20-L1	5/24/05	11	14-08	RR20-L	5/24/15
6	06-06	RR20-C	6/22/06	12	16-02	RR20-GRF	5/27/16
				13	16-05	RR20-GRF	4/18/17

Map created by the Land Management Department

F.4. Signed Statement

WDNR BRRS Case #: 03-48-109589

WDNR Site Name: Standard Oil, Hager City (fmr)

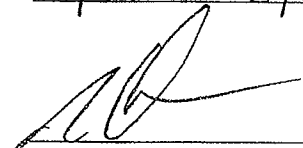
Geographic Information System (GIS) Registry of Closed Remediation Sites

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:

Ryan Dodge Member
(print name/title)


(signature)

1-20-2018
(date)

Attachment G/Notifications to Owners of Affected Properties

G.1 Deed – No off-site properties have been impacted.

G.2 Certified Survey Map – No off-site properties have been impacted.

G.3 Verification of Zoning – No off-site properties have been impacted.

G.4 Signed Statement – No off-site properties have been impacted.