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

Scott Walker, Governor Cathy Stepp, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



June 1, 2017

Mr. Tim Detzer, Environmental Engineer Department of Administrative Services Milwaukee County 633 W. Wisconsin Ave., Suite 1003 Milwaukee, WI 53203

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT:

Final Case Closure with Continuing Obligations

Milwaukee County Zoo/Bliffert Lumber Site, 10733 W. Bluemound Rd., Milwaukee DNR BRRTS # 02-41-000655 and # 03-41-005150 PECFA # 53226-4282-33-A

FID #: 241494110

Dear Mr. Detzer:

The Wisconsin Department of Natural Resources (DNR) considers the Milwaukee County Zoo/Bliffert Lumber site closed with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attachments listed at the end of this letter to anyone who purchases, rents or leases this property from you.

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 Southeast Region Closure Committee reviewed the request for closure on April 6, 2017. The DNR Closure Committee reviewed this environmental remediation case for compliance with state laws and standards to maintain consistency in the closure of these cases. Revisions to the closure documents were requested and received on May 10, 2017.

Soil and groundwater contamination resulted during operations at the former lumber yard and fuel distribution facility. Fuel oil aboveground and underground storage tanks (ASTs and USTs) and a gasoline UST were sources of petroleum contamination. Historic fill materials that include foundry sand, gravel, asphalt, cinders and wood pieces are likely a contributing contaminant source. In the 1990s, soil and groundwater were actively remediated using an interceptor trench, groundwater extraction and treatment, followed by dual-phase extraction. In 2015, the property was capped with 10 to 20 feet of clean soil during redevelopment as a parking lot and park entrance, which removed the direct contact risk. 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 <u>Closure Conditions</u>.

- Groundwater contamination is present at or above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- One or more monitoring wells were not located and must be properly filled and sealed if found.

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 on file at the Southeast Region DNR office, at 2300 N. Dr. Martin Luther King, Jr. Drive, Milwaukee. This letter and information that was submitted with your closure request application, including any maps, can be found as a Portable Document Format (PDF) in 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. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wis. Stats., to ensure compliance with the specified requirements, limitations or other conditions related to the property.

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

Wisconsin Department of Natural Resources Attn: Remediation and Redevelopment Program Environmental Program Associate 2300 N. Dr. Martin Luther King, Jr. Drive Milwaukee, WI 53212

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

Groundwater contamination greater than enforcement standards is present on this contaminated property, as shown on the attached map, Groundwater Isoconcentration, Figure B.3.b.1, dated July 3, 2013. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval.

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

Soil contamination remains at depth across the northern portion of this parcel as indicated on the attached map, Residual Soil Contamination, Figure B.2.b., dated July 3, 2013. If soil in the specific location described above is excavated in the future, the property owner or right-of-way holder at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner or right-of-way holder at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

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

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

Monitoring Wells that could not be Properly Filled and Sealed (ch. NR 141, Wis. Adm. Code) Monitoring wells MW-1, -2R, -4, -5, -9, -10, -12, and temporary wells GP-13-5 and GP-13-6, located across the property, as shown on the attached map, Monitoring Well, Figure E.1.1., dated July 3, 2013, could not be properly

filled and sealed because they were paved over, covered or removed during site development activities. Your consultant made a reasonable effort to locate the wells and to determine whether they were properly filled and sealed, but was unsuccessful. You may be held liable for any problems associated with the monitoring wells if they create a conduit for contaminants to enter groundwater. If any of the groundwater monitoring wells are found, the then current owner of the property on which the well is located is required to notify the DNR, to properly fill and seal the wells and to submit the required documentation to the DNR. This continuing obligation applies to the owners of 10733 West Bluemound Road.

Other Closure Information

Sites with an Exemption for Development at a Historic Fill Site

Information presented in the site investigation report indicates that subsurface materials consist of historic fill material. An approval for development at a Historic Fill Site was approved by the DNR on April 10, 2013, for the construction of a parking lot and park entrance with related ticket booths and concessions. Any redevelopment of this property will require compliance with the approved exemption. Any changes from the April 10, 2013 exemption will require prior DNR approval in writing. Please refer to the Development at Historic Fill Site or Licensed Landfill guidances for further information at http://dnr.wi.gov/topic/landfills/development.html.

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.

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 the DNR Project Manager, Linda Michalets, at (414) 263-8757, or at linda.michalets@wisconsin.gov.

Sincerely,

Michele R. Norman

Southeast Region Team Supervisor

Remediation and Redevelopment Program

Michele R. Norman

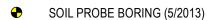
Attachments: Groundwater Isoconcentration, Figure B.3.b.1., dated July 3, 2013

Residual Soil Contamination, Figure B.2.b., dated July 3, 2013

Monitoring Well, Figure E.1.1., dated July 3, 2013

LEGEND

GROUNDWATER MONITORING WELL



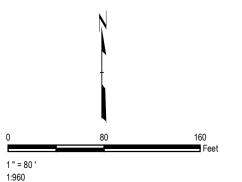
SOIL PROBE BORING & TEMPORARLY WELL (5/2013)



APPROXIMATE EXTENT OF GROUNDWATER EXCEEDING NR 140 ES - JUNE 2013

NOTES

 BASEMAP IMAGERY FROM ESRI/BING, "WORLD IMAGERY", WEB BASEMAP SERVICE LAYER, 2011.



MILWAUKEE COUNTY - BLIFFERT SITE
WDNR BRRTS NO. 02-41-000655
PECFA NO. 53226-4282-33-A

GROUNDWATER CONTAMINANT DISTRIBUTION MAP
JUNE 2013

DRAWN BY:	PAPEZ J	SCALE:	PROJ. NO.	202083
CHECKED BY:		1: 960	FILE NO.	202083-003.mxd
APPROVED BY:		DATE PRINTED:		FIGURE 6
DATE:	JULY 2013			FIGURE 2



708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com

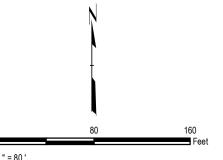
GROUNDWATER MONITORING WELL

SOIL PROBE BORING (5/2013)

SOIL PROBE BORING & TEMPORARLY WELL (5/2013)

APPROXIMATE EXTENT OF SOIL EXCEEDING NR 720 RCLS - MAY 2013

BASEMAP IMAGERY FROM ESRI/BING, "WORLD IMAGERY", WEB BASEMAP SERVICE LAYER, 2011.



MILWAUKEE COUNTY - BLIFFERT SITE WDNR BRRTS NO. 02-41-000655 PECFA NO. 53226-4282-33-A

SOIL CONTAMINANT DISTRIBUTION MAP MAY 2013

DRAWN BY:	PAPEZ J	SCALE:	PROJ. NO.	202083
CHECKED BY:		1: 960	FILE NO.	202083-002.mxd
APPROVED BY:		DATE PRINTED:		FIGURE 4
DATE:	JULY 2013			FIGURE 1



708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com

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

Case Closure - GIS Registry

Form 4400-202 (R 3/15)

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SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN

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

Site Information				
BRRTS No.	VPLE No.			
03-41-005150				
Parcel ID No.				
41-09-999111				
FID No.	WTM Coordin	nates		
241494110	X 679,141		28647	
BRRTS Activity (Site) Name	WTM Coordinates Represent:			
BLIFFERT LUMBER CO PROPERTY #2-FORMER	Source Area	Parcel	Center	•
Site Address	City		State	ZIP Code
10733 West Bluemound Road	Milwaukee	ļ	WI	53226
Acres Ready For Use				
1	00			
Responsible Party (RP) Name				
Milwaukee County				
Company Name				
Milwaukee County				
Mailing Address	City		State	ZIP Code
633 W. Wisconsin Ave, Suite 1003	Milwaukee		WI	53203
Phone Number	Email			
(414) 278-2988	timothy.detzer@milwaukeecountywi.	gov		
Check here if the RP is the owner of the source property.				
Environmental Consultant Name				
NA				
Consulting Firm				
NA Mailing Address			I.	
Mailing Address	City		State	ZIP Code
NA	NA			
Phone Number	Email			
F		and and organization		
Fees and Mailing of Closure Request 1. Send a copy of page one of this form and the applicable ch. N	D 740 \0% Adm Code for(s) to the			
 Send a copy of page one of this form and the applicable ch. N (Environmental Program Associate) at http://dnr.wi.gov/topic/ 	Brownfields/Contact.html. Check all	fees that	ionai ⊨ t apply:	.PA :
\$1,050 Closure Fee	🔀 \$300 Database Fee for Soil			
	Total Amount of Payment \$\$65	0.00		
Monitoring Wells (Not Abandoned)	Resubmittal, Fees Previously			

2. Send one paper copy and one e-copy on compact disk of the entire closure package to the Regional Project Manager assigned to your site. Submit as <u>unbound</u>, <u>separate documents</u> 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.

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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.

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 Zoo/Bliffert Site (the site) is located at 10733 W. Bluemound Road in the City of Milwaukee. It is bound to the north by West Bluemound Road, to the west by Mayfair Road (Wisconsin Highway 100), and to the East and South by the Milwaukee County Zoo.
- Prior and current site usage: Specifically describe the current and historic occupancy and types of use. The site was occupied by Bliffert Lumber Company from 1927 through 1992 and was developed and used as a lumber yard and fuel distribution facility. Milwaukee County obtained the property through condemnation in 1988 and purchased the property in 1990. Bliffert Lumber vacated the site in 1992. The site remained largely vacant from 1992 though 2015 although was used sporadically by the Milwaukee County Zoo for the temporary storage of materials (brush piles, etc). The site is the current location of the Milwaukee County Zoo's western entrance (under construction) and overflow parking area (completed). The parking area and western entrance (when complete) will be utilized for overflow parking on days when the regular parking lots on the east side of the zoo reach capacity.
- Current zoning (e.g., industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).
 - The site is zoned by the City of Milwaukee as institutional (TL). All adjacent parcels are also zoned institutional. Zoning information was obtained from the City of Milwaukee's zoning and zoning overlay maps available at: http://city.milwaukee.gov/mapmilwaukee/applications
- Describe how and when site contamination was discovered.
 - Phase I&II ESA were completed by STS Consultants under contract with Milwaukee County in 1988. Site Investigation completed by Law Engineering under contract with Milwaukee County in 1993 revealed soil and groundwater contamination.
- Describe the type(s) and source(s) or suspected source(s) of contamination. The Phase 1 identified six 23,000-gallon above ground storage tanks (heating oil), one 1,000-gallon underground storage tank and various drum storage areas as suspected sources of contamination. Soil and groundwater contamination is petroleum based.
- Other relevant site description information (or enter Not Applicable).
 - The property is being redeveloped as the Zoo's new western entrance and overflow parking. To be able to create a parking lot with an acceptable slope, a large quantity of fill was imported. Filling operations occurred from the north end of the property for approximately 500 feet to the south to approximately the previous location of the metal shed (the northernmost building); almost half of the property. The entire contaminated area was filled with several feet of imported soil. As shown in B. 3. a. 4, Geologic Cross-Section Figure, the north end was filled with approximately 24 feet, while the southern end of the site area had 11 feet of fill. A retaining wall was built adjacent to the railroad property to the west to maintain the grade of the railroad tracks. An asphalt parking lot was built at the new grade. A shallow detention pond was built at the southernmost end of the property.
- G. List BRRTS activity/site name and number for BRRTS activities at this source property, including closed cases.
 - 02-41-000655 MILWAUKEE ZOO/BLIFFERT LUMBER
 - 03-41-005150 BLIFFERT LUMBER CO PROPERTY #2 FORMER
 - 07-41-368901 BLIFFERT LUMBER CO PROPERTY #2 (FORMER)
- H. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to (abutting) this source property.
 - 03-41-001556 MILWAUKEE CNTY ZOO SERVICE YARD (This site is mapped incorrectly on RR sites map.)
 - 02-41-321432 MILWAUKEE CNTY ZOO
 - 03-41-001688 AMOCO STATION #18803
 - 03-41-000760 MOBIL OIL

General Site Conditions

- A. Soil/Geology
 - Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.
 - Shallow geology at the site has been defined by a series of soil borings, groundwater monitoring well installations, and geoprobe locations (STS, 1988 and Law, 1993a). Findings indicate that a gravelly fill from 1.5 to 4.5 feet thick is present beneath most of the site. This gravel is underlain throughout much of the site by a moist to wet silty clay material with some silty sand, extending to as much as 12.5 feet below land surface. Native soils are composed of a clayey and silty till extending to a depth of at least 20 feet. Some sandy zones are present within the till material. Native soils belong to the Ozaukee series of the Ozaukee-Morley-Mequon association (USCS, 1971). Total depth of penetration beneath the site has been 20 feet.

- Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site. Possible foundry sands were identified on the the north end of the property between 10 to 24 feet below ground surface. The fill material contains foundry sand, gravel, asphalt, cinder and wood pieces. It is estimated that the depth of fill is 8 feet to 12 feet thick with an area of approximately 350 feet by 150 feet. See B. 3, a. 4. Geologic Cross-Section. As described above, the property was redeveloped. The grade was raised up to 24 feet on the north end while the center of the property (end of contamination) had 11 feet of fill.
- Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation. Bedrock was not encountered during the investigation.
- 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 site has been developed into an asphalt parking lot. There are no buildings on site. The grade has been raised several feet and a retaining wall has been built to maintain the railroad tracks at original grade.

B. Groundwater

- 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.
 - Groundwater elevation varies between approximately 0.5 to 10 feet below the original ground surface elevation (prior to raising the grade), and is seasonally variable. Currently, groundwater elevation varies between twenty four to eleven feet below ground surface elevation (as shown in Figure B. 3. a. 4. Groundwater Cross-Section Figures), based on the amount of fill added to the site. Depth to groundwater has not been measured since redevelopment. No free product was found in the 2013 investigation.
- Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if
 - Groundwater flows to the southwest through the property. The hydraulic gradients indicate that groundwater flows from the west and northeast into the foundry sand fill. Also, an apparent slight gradient exists to the south although the head measured in the clay are less reliable. However, the sand is bounded by the low permeability native clay on the south. This native clay tends to act as a barrier to off-site migration of groundwater.
- Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.
 - Shallow groundwater flows toward the center of the site, where the sandy fill occurs, from the west and northeast under a moderately high horizontal gradient in the clay till of 0.03 ft./ft. The horizontal flow gradient within the foundry sand is extremely low (within measurement error), which suggests that groundwater does not flow off-site through the foundry sand./ft. The differences in horizontal gradient are due to permeability differences between the clay till and the foundry sand. Hydraulic conductivity of the clay till at MW-5 was estimated by a permeability test conducted by Law at 2 x 10⁻⁵ cm/sec. Hydraulic conductivity of the foundry sand fill at MW-10 was estimated 1 x 10⁻³ cm/sec (Law, 1993).

The hydraulic gradients indicate that groundwater flows from the west and northeast into the foundry sand fill. Also, an apparent slight gradient exists to the south although the head measured in the clay are less reliable. However, the sand is bounded by the low permeability native clay on the south. This native clay tends to act as a barrier to off-site migration of groundwater.

- 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).
 - A groundwater receptor survey performed for this site indicates that no potable wells were identified in a 1/4-mile radius of the site. Furthermore, the entire City of Milwaukee is supplying drinking water by Lake Michigan. (RMT Inc., 2000, PECFA)

Site Investigation Summary

A. General

- 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.
 - Phase I and II environmental site assessments, which began in 1988 (STS Consultants, previously submitted), revealed soil and groundwater petroleum contamination. Phase II investigations included 12 soil brings indicated that soils had been impacted beneath an area with above ground storage tanks and in an area where an underground storage tank was located.

Site Investigations in 1993 (Law Engineering, previously submitted) further defined site contamination with 21 additional borings. Twelve borings were completed as monitoring wells. Free product was initially discovered at this time.

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A dual phase extraction system (described in Section 4, Remedial Actions Implemented . . .) was installed and operated from 1996-1999.

In 2000, WDNR denied case closure based on the the lack of current soil data.

Additional site investigation occurred in 2001 by RMT (2002, previously submitted) under contract with Milwaukee County. Twenty additional soil borings were advanced throughout the site.

Additional site investigation occurred in 2012-2013 by TRC under contract with Milwaukee County (submitted previously as a letter report dated July 3, 2013). TRC advanced an additional 15 soil probes, converting 12 to temporary monitoring wells to evaluate the site for free product.

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.
 It is possible that petroleum contamination from the Bliffert property migrated onto the Union Pacific right of way.
 Structural impediments, including railroad tracks and a railroad tunnel under State Highway 100, prohibit investigation.

In 2013, the Wisconsin Department of Transportation, as part of the Zoo Interchange reconstruction project, widened Highway 100 and the railroad tunnel that runs beneath it. To expand the railroad tunnel, the Wisconsin DOT removed 6,866 tons of soil. The soil was removed to a depth of 8 feet up to the property boundary adjacent to the Bliffert site, and presumably removed any residually contaminated soil that had migrated from the Bliffert site.

It should be noted that both properties contain foundry sand fill materials presumably placed at the same time, and contamination associated with these foundry sands should be similar. The DOT found PVOC contamination during a Phase 2.5 investigation prior to construction of the railroad tunnel, but those materials have been excavated and disposed of in a landfill. Please see Figure C. 6. 2. Other.

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.

Off site structural impediments exist to the west of the Bliffert property. Union Pacific railroad tracks, a railroad tunnel under State Highway 100, prohibit investigation there, but also serve as performance standard barrier for direct contact and the goundwater pathway. As noted above, the DOTs contractor excavated materials adjacent to the railroad tunnel to enable the tunnels expansion.

B. Soil

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

Known sources of contamination were identified a six 23,000-gallon above ground storage tanks (heating oil) and one 1,000-gallon underground storage tank. Soil and groundwater contamination is petroleum based. Prior to remedial action DRO contamination ranged from <10mg/kg to 39,000 mg/kg; TRPHC ranged from <5 mg/kg to 30,000 mg/kg; and GRO ranged from <5 mg/kg to 10,000 mg/kg. Benzene concentrations ranged from below detection limit to 24.5 mg/kg. Toluene concentrations ranged from below detection limit to 61 mg/kg.

There are no known utilities, receptors or migration pathways on the site.

- ii. Describe the concentration(s) and types of soil contaminants found in the upper four feet of the soil column. There is no known soil contamination in the upper four feet of soil since the grade was raised to build the new parking lot in 2015.
- 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.

Milwaukee county is requesting site closure with RCL exceedances, based on an industrial land use.

C. Groundwater

 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.

In the 1993 site investigation, DRO ranged from 0.25 ppm to 38 ppm; GRO ranged from non-detect to 4.4mg/L. No VOCs of PAHs were detected. During site investigative activities in 1993, Law Engineering observed trace amounts of

Case Closure - GIS Registry

Activity (Site) Name Form 4400-202 (R 3/15)

free product in monitoring well MW-3. Absorbent material was placed into the wells to remove the product. During the subsequent groundwater sampling event in June 1993, free product was not observed in either well, and groundwater samples were collected for laboratory analysis. The groundwater sample from MW-3 had a diesel range organics (DRO) concentration of 380 milligrams per liter (mg/L) and a total recoverable petroleum hydrocarbons (TRPH) concentration of 200 mg/L. Post remedial groundwater testing revealed the presence of PAHs in certain wells and Enforcement Standard exceedances for benzene and methyl tertiary butyl ether. This is further discussed in Section 4. There are no building foundations. There are no water supply wells or building foundation drain systems on site.

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.

In the 2013 report TRC found no free product, however historically there had been. From November 1996 to June 1997, approximately 500 gallons of free product was removed from the recovery sump during operation of the dual phase extraction system. Free product has been identified in eight on-site wells (MW-3, EW-2, EW-3, EW-4, EW-5, EW-7, EW-8, and MH-1). These wells are located south of the former bulk fuel oil AST area. On August 14, 2002, RMT observed free product in two extraction wells, EW-3 and EW-4, at thickness of 1.97 and 0.14 feet, respectively. Both wells are located in the middle of the site where free product has never been observed in either of these wells with the exception of 1-inch of product measured in EW-3 in 1997. In 2013, however, there was no free product present in any location.

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.
 There are no buildings or structures on the site, thus vapor pathways were not assessed.
- 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).

 There are no structures on the site, thus, vapor pathways were not assessed.

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.

There is no sediment or surface water present on site.

 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.

There is no sediment or surface water present on site.

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.

Based on the impacts detected in the soil and groundwater during the investigative activities, Law Engineering recommended a remediation system combining bioremediation piles, a groundwater interceptor trench, and passive monitoring to remediate the soil and groundwater impacts. Law Engineering presented the remediation system to the WDNR in November 1993 in the report entitled, "Conceptual Remedial Action Plan (RAP)." As part of the remediation, the tanks, miscellaneous drums, two septic fields, and the private water supply well were removed from the site by the end of 1993.

RMT was retained in May 1995 to continue the soil and groundwater remediation design and to implement the RAP at the site. Utilizing an interceptor trench, a groundwater extraction and treatment system was installed in the spring of 1995. The groundwater recovery and treatment system was started in the summer of 1995. In the fall of 1995, significant amounts of free phase petroleum product were found in the interceptor trench.

Subsequently, a dual-phase extraction system was installed at the site. The system was described in detail in RMT's Revised Remedial Action Plan (December 1995) and Construction Documentation Report (November 1996) and consisted of two pumps that extracted vapors, free product, and groundwater from a recovery sump and nine extraction wells. Recovered vapors were discharged to the atmosphere, recovered free product was drummed for off-site disposal, and recovered groundwater was transferred to the existing treatment system. The groundwater treatment system consisted of an oil/water separator, air stripper, bag filters, and high-pressure activated carbon canisters. The dual-phase extraction system also incorporated a regenerative air injection blower for bioventing the extraction wells.

The dual phase extraction system began drawing free product in November 1996. From November 1996 to June 1997, approximately 500 gallons of free product were removed from the site. The remediation system continued to operate until groundwater results stabilized or decreased and the cumulative petroleum hydrocarbon removal and the vapor recovery rates

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from the extraction system reached asymptotic trends. Following approval by the WDNR, the system was shut down in April 1999.

In 2013, the Wisconsin Department of Transportation, as part of the Zoo Interchange reconstruction project, widened Highway 100 and the railroad tunnel that runs beneath it. To expand the railroad tunnel, the Wisconsin DOT removed 6,866 tons of soil. The soil was removed to a depth of 8 feet up to the property boundary adjacent to the Bliffert site. To facilitate construction of the tunnel, the DOT's contractor also pumped 225,800 gallons of groundwater to the sanitary sewer.

In 2015, Milwaukee County began building the and overflow parking lot on what will be the Zoo's new western entrance. in order to build the parking lot, it was required to raise the grade of the majority of the site, including the area with petroleum and foundry sand impacts. The entire contaminated area was filled with 11 to 24 feet of fill material, topped with an asphalt parking lot.

The most recent investigations in 2013 reveal a small area of residual soil contamination remains including soils impacted with GRO (GP13-6, 210 mg/kg; GP13-11 860 mg/kg), benzene (GP13-3, 29 ug/kg; GP13-6 64 ug/kg; GP13-11, 22J ug/kg), and PAHs (ex. Benzo(a)pyrene ranged from 47 ug/kg to 1300 ug/kg in 10 detected samples) above RCLs. See Figure B. 2. b. Residual Soil.

Residual groundwater contamination exists in a small area with Benzene and PAH Enforcement Standard Exceedances in GP-13-6 (benzene = 17ug/l), GP13-8 and GP13-11. Benzo(b)fluorathene exceedances occurred in GP-13-6 (0.83 ug/l) and GP-13-8 (0.37 ug/l). Benzo(a)pyrene exceedances occurred in GP-13-6 (0.47 ppb) and GP-13-8 (0.78 ppb). Chrysene exceedances occurred in GP-13-6 (1.1 ug/l), GP-13-8 (0.3 ug/l), GP-13-11 (0.5 ug/l). See Figure B. 3. b. Groundwater Isoconcentration and Table A. A. 1. Groundwater Analytical Table(s).

- B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code. No actions were taken under ch NR 708.
- 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.
 See response to to item 4.a, above.
- 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.
 - The remedial alternatives are described fully in RMTs report "Revised Remedial Action Plan for the Milwaukee County Zoo Bliffert Site," December 1995. Alternatives considered were intrinsic soil and groundwater remediation, enhanced in situ soil bioremediation, soil vapor extraction, soil excavation with treatment or disposal, groundwater recovery and treatment, air sparging, free product recovery, passive free product recovery, and dual phase extraction or a combined approach. As described above, the selected approach was to utilize a dual phase extraction system (with bioventing) including a groundwater extraction and treatment system from an interceptor trench.
- 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.

The most recent investigations in 2013 reveal a small area of residual soil contamination remains including soils impacted with GRO (GP13-6, 210 mg/kg; GP13-11, 860 mg/kg), benzene (GP13-3, 29 ug/kg; GP13-6, 64 ug/kg; GP13-11, 22J ug/kg), and PAHs (ex. Benzo(a)pyrene ranged from 47 ug/kg to 1300 ug/kg in 10 detected samples) above RCLs. See Figure B. 2. b. Residual Soil Contamination and A. 3. Residual Soil contamination Table(s).

Residual groundwater contamination exists in a small area with Benzene and PAH Enforcement Standard Exceedances in GP-13-6 (benzene = 17ug/l), GP13-8, and GP13-11. Benzo(b)fluorathene exceedances occurred in GP-13-6 (0.83 ug/l) and GP-13-8 (0.37 ug/l). Benzo(a)pyrene exceedances occurred in GP-13-6 (0.47 ppb) and GP-13-8 (0.78 ppb). Chrysene exceedances occurred in GP-13-6 (1.1 ug/l), GP-13-8 (0.3 ug/l), GP-13-11 (0.5 ug/l). See Figure B. 3. b. Groundwater Isoconcentration and Table A. 1. 1. Groundwater Analytical Table(s).

- 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 is no residual soil contamination in the upper four feet of soil.
- 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.

Benzene exceeded RCLs at GP-13-3 (29 ppb), GP-13-6 (64 ppb), and GP-13-11 (22 ppb). Benz(a)anthracene exceeded RCLs at GP-13-4 (750 ppb), GP-13-5 (1000 ppb), GP-13-6 (1200 ppb), GP-13-7 (750 ppb), GP-13-8 (220 ppb), and GP-13-12 (160 ppb). Benz(a)pyrene exceeded RCLs at GP-13-1 (47 ppb), GP-13-2 (82 ppb), GP-13-3 (46 ppb), GP-13-4 (710 ppb), GP-13-5 (1200 ppb), GP-13-6 (1300 ppb), GP-13-7 (670 ppb), GP-13-8 (250 ppb), GP-13-11(130 ppb),

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GP-13-12 (170 ppb), and GP-13-13 (21 ppb). Benz(o)fluoranthene exceeded RCLs at GP-13-2 (160 ppb), GP-13-4 (940 ppb), GP-13-5 (2,400 ppb), GP-13-6 (2,200 ppb), GP-13-7 (900 ppb), GP-13-8 (330 ppb), GP-13-11(200 ppb), and GP-13-12 (240 ppb). Benzo(k)fluoranthene exceeded RCLs at GP-13-4 (300 ppb), GP-13-5 (780 ppb), GP-13-6 (780 ppb) and, GP-13-7 (330 ppb). Chrysene exceeded RCLs at GP-13-4 (640 ppb), GP-13-5 (1,700 ppb), GP-13-6 (1,800 ppb), GP-13-7 (620 ppb), GP-13-8 (200 ppb), GP-13-11(180 ppb), and GP-13-12 (160 ppb). Dibenz(a,h)anthracene exceeded RCLs at GP-13-1 (15 ppb), GP-13-2 (55 ppb), GP-13-3 (17 ppb), GP-13-4 (250 ppb), GP-13-5 (690 ppb), GP-13-6 (790 ppb), GP-13-7 (210 ppb), GP-13-8 (82 ppb), and GP-13-12 (54 ppb). Indeno(123-cd)pyrene exceeded RCLs at GP-13-4 (560 ppb), GP-13-5 (1,500 ppb), GP-13-6 (1,900 ppb), GP-13-7 (460 ppb), GP-13-8 (190 ppb), and GP-13-11 (160 ppb). 1-Methylnaphthalene exceeded RCLs at GP-13-11 (1,600 ppb).

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

Residual contamination will be addressed through natural attenuation. Residual contamination has been covered with 11 feet to 24 feet of fill material installed to create an asphalt parking lot.

There are no structures on the site, thus, vapor pathways were not assessed.

- 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). Groundwater data collected shows stable or receding concentrations. Although most of the older wells could not be sampled, due to well failure, in 2013 when groundwater was re-analyzed, new wells were installed throughout the area and can be compared to past results. GP-13-6 very near MW-3 shows a decrease in benzene concentration from 59 ug/l in 2002 to 17 ug/l in 2013. Low level PAH concentrations in GP-13-6 and GP-13-8 and GP-13-11, the only well with Enforcement Standard Exceedances are also similar or lower in 2013 than in 2002. For example, in 2002 Benzo(a)pyrene concentrations in EW-8 and MW-3 were 2.2 ug/L and 0.55 ug/L, respectively. In 2013 concentrations in GP-13-5 (in the location of EW-8) and GP-13-6 (in the location of MW-3) were <0.12 ug/l and 0.83 ug/l, respectively.
- J. Identify how all exposure pathways (soil, groundwater, vapor) were removed and/or adequately addressed by immediate, interim and/or remedial action(s).
 - Exposure pathways and migration potential have been greatly reduced by additional soil cover and asphalt parking lot installed over remaining contamination.
- K. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain. No system hardware is to be left in place. Several monitoring wells were not found. Some may have been removed previously and not documented, or were not found.
- 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.

 Currently the groundwater for benzene, benzo(a)pyrene, benzo(b) fluorathene, and chrysene is above both the ES and PAL limits. In GP-13-6 (17 ppb) there was an exceedance of benzene. Benzo(b)fluorathene exceedances occured in GP-13-6 (0.83 ppb) and GP-13-8 (0.37 ppb). Benzo(a)pyrene exceedances occurred in GP-13-6 (0.47 ppb) and GP-13-8 (0.78 ppb). Chrysene exceedances occurred in GP-13-6 (1.1 ppb), GP-13-8 (0.3 ppb), and GP-13-11 (0.5 ppb).
- M. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.
 - There are no structures on the site, thus, vapor pathways were not assessed.
- 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.
 Neither sediment nor surface water nor other media was of concern.

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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	n applies to the Right of Wa	ne following y (ROW):			
	Property Typ	e:		Case Closure Situation - Continuing Obligation Inclusion on the GIS Registry is Required (ii xiv.)		Itenance Plan quired
	Source Property	Affected Property (Off-Source)	ROW		IXE	quiled
i.		\boxtimes	\boxtimes	None of the following situations apply to this case closure request.		NA
ii.	\boxtimes			Residual groundwater contamination exceeds ch. NR 140 ESs.		NA
iii.	\boxtimes			Residual soil contamination exceeds ch. NR 720 RCLs.		NA
iv.				Monitoring Wells Remain:		
	\boxtimes			Not Abandoned (filled and sealed)		NA
	П			Continued Monitoring (requested or required)		Yes
V.				Cover/Barrier/Engineered Cover or Control for (soil) direct contact pathways (includes vapor barriers)		Yes
vi.				Cover/Barrier/Engineered Cover or Control for (soil) groundwater infiltration pathway		Yes
vii.		\boxtimes		Structural Impediment: impedes completion of investigation or remedial action (not as a performance standard cover)		NA
viii.				Residual soil contamination meets NR 720 industrial soil RCLs, land use is classified as industrial		NA
ix.			NA	Vapor Mitigation System (VMS) required due to exceedances of vapor risk screening levels or other health based concern		Yes
x.			NA	Vapor: Dewatering System needed for VMS to work effectively		Yes
xi.			NA	Vapor: Compounds of Concern in use: full vapor assessment could not be completed		NA
xii			NA	Vapor: Commercial/industrial exposure assumptions used.		NA
xiii.				Vapor: Residual volatile contamination poses future risk of vapor intrusion		NA
xiv.				Site-specific situation: (e. g., fencing, methane monitoring, other) (discuss with project manager before submitting the closure request)	Site	specific
	Jnderground A. Were any or remedi	tanks, piping	nks g or other ass	sociated tank system components removed as part of the investigation	Yes	○ No
Ī	3. Do any up	ograded tank	s meeting the	e requirements of ch. ATCP 93, Wis. Adm. Code, exist on the property?	Yes	No
(C. If the ans	wer to questi	on 6.B. is yes	s, is the leak detection system currently being monitored?	Yes	○ No

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General Instructions

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

Data Tables (Attachment A)

Directions for Data Tables:

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

A Data Tables

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

Maps, Figures and Photos (Attachment B)

Directions for Maps, Figures and Photos:

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

B.1. Location Maps

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

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B.2. Soil Figures

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

B.3. Groundwater Figures

- B.3.a. **Geologic Cross-Section Figure(s):** One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:
 - Source location(s) and vertical extent of residual soil contamination exceeding an RCL. Distinguish between direct contact and the groundwater pathway RCLs.
 - Source location(s) and lateral and vertical extent if groundwater contamination exceeds ch. NR 140 ES.

Surface features, including buildings and basements, and show surface elevation changes.

- Any areas of active remediation within the cross section path, such as excavations or treatment zones.
- Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1.b.)
- B.3.b. **Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, PAL and/or an ES. Indicate the date and direction of groundwater flow based on the most recent sampling data.
- B.3.c. **Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.
- B.3.d. **Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been abandoned.

B.4. Vapor Maps and Other Media

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

Documentation of Remedial Action (Attachment C)

Directions for Documentation of Remedial Action:

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc.).
- If the documentation requested below has already been submitted to the DNR, please note the title and date of the report for that
 particular document requested.
 - C.1. Site investigation documentation, that has not otherwise been submitted with the Site Investigation Report.

C.2. Investigative waste disposal documentation.

- C.3. Provide a **description of the methodology** used along with all supporting documentation if the RCLs are different than those contained in the Department's RCL Spreadsheet available at: http://dnr.wi.gov/topic/Brownfields/Professionals.html.
- C.4. Construction documentation or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.
- C.5. Decommissioning of Remedial Systems. Include plans to properly abandon any systems or equipment.
- C.6. Other. Include any other relevant documentation not otherwise noted above (This section may remain blank).

Maintenance Plan(s) and Photographs (Attachment D)

Directions for Maintenance Plans and Photographs:

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

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

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BLIFFERT LUMBER CO PROPERTY #2-FORMER

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- 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)

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00,		<i></i>
Ο	No r	monitoring wells were installed as part of this response action.
0	All n	nonitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site
•		ect One or More:
	\boxtimes	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.

03-41-005150

BLIFFERT LUMBER CO PROPERTY #2-FORMER

Case Closure - GIS Registry Page 12 of 14

BRRTS No.

Activity (Site) Name

Form 4400-202 (R 3/15)

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.

Case Closure-GIS Registry Form 4400-202 (R 3/15)

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BLIFFERT LUMBER CO PROPERTY #2-FORMER Activity (Site) Name

	Notifications to Owners of Affected Properties	(Attachment G))							Reas	ons	Not	ifica	tion	l ett	er Se	ent:		
ID	Address of Affected Property	Parcel ID No.	Date of Receipt of Letter	Type of Property Owner	WTMX	WTMY	Residual Groundwater Contamination = or > ES	Residual Soil Contamination Exceeds RCLs	Monitoring Wells: Not Abandoned	Monitoring Wells: Continued Monitoring	Cover/Barrier/Engineered Control	Structural Impediment	Industrial RCLs Met/Applied	Vapor Mitigation System(VMS)	Dewatering System Needed for VMS			Residual Volatile Contamination Poses Future Risk of Vapor Intrusion	Site Specification Situation
A	NA					100000													
В																			
С											·								
D																			

02-41-000655 BRRTS No.	BLIFFERT LUMBER CO PRO Activity (Site) Name	PERTY #2 (FORMER)	Case Closure - GIS Regi Form 4400-202 (R 3/15) Page 1	istry 14 of 14
	s for Closure Determination this case closure request, and ide, sign this document.		r or a hydrogeologist, as defined in	
A response action(s)	for this site addresses groundw	vater contamination (including natu	ral attenuation remedies).	
The response action(s	s) for this site addresses media	other than groundwater.		
Engineering Certification	on	全国等第一个企业	(1) 10 (FRE
closure request has been closure request is correto 726, Wis. Adm. Code investigation has been closure.	In, registered in accordance on prepared by me or prepared by me or prepared bys. Adm. Code; and that, to ect and the document was present the conducted in accordance with chs. NR accordance with chs. NR accordance with chs.	with the requirements of ch. A red under my supervision in act the best of my knowledge, all repared in compliance with all at to compliance with the rules, in the ch. NR 716, Wis. Adm. Code 140, NR 718, NR 720, NR 722,	I am a registered professional eng-E 4, Wis. Adm. Code; that this calcordance with the Rules of Professinformation contained in this case applicable requirements in chs. NR n my professional opinion a site e, and all necessary remedial action NR 724 and NR 726, Wis. Adm.	ise sional 700 ons
Sign	nature	Date	P.E. Stamp and Number	
Hydrogeologist Certifica	ation	以 有效。(80至 数数(30) 14 图	110	Hills
this case closure reques supervision and, in com with respect to compliar accordance with ch. NR	st is correct and the docume pliance with all applicable re nce with the rules, in my pro t 716, Wis. Adm. Code, and	nat, to the best of my knowledgent was prepared by me or prepared by me or prepared by me or prepared to the contraction of the	have been completed in accordan	in ' ',
ŀ	Printed Name		Title	

Date

Signature

Table of Contents A. Data Tables Zoo-Bliffert Case Closure – GIS Registry

- A. 1. Groundwater Analytical Table
 - A. 1. 1. Table from TRC 2013
 - A. 1. 2. A. 1. 13. Tables from RMT 1996-2000
 - A. 1. 14. A. 1. 15. Tables from Law Engineering 1993
- A. 2. Soil Analytical Results Table
 - A. 2. 1. Table from TRC 2013, RCLs were updated to match 1/4/17 conditions
 - A. 2. 2. A. 2. 3. Tables from RMT 2001
 - A. 2. 4. A. 2. 8. Tables from Law Engineering 1993
- A. 3. Residual Soil Contamination Table
 - A. 3. 1. Table from TRC 2013, RCLs were updated to match 1/4/17 conditions
- A. 4. Vapor Analytical Table was not applicable. There are no structures on the site, thus, vapor analytics were not assessed.
- A. 5. Other Media of Concern was not applicable. There were no other media present.
- A. 6. Water Level Elevations
 - A. 6. 1. Table from TRC 2013
 - A. 6. 2. A. 6. 3. Tables from RMT 1993-2002
- A. 7. Other Natural Attenuation from RMT 1999-2000

Table 2 Groundwater Sampling Results Summary - Phase 2.5 Investigation Milwaukee County - Bliffert Lumber, Milwaukee TRC Project ID 202083.0000.0000

														WEL	L ID											
	NR 140 ST		MW-1	MW-2R**	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8**	MW-9	MW-10	MW-11	MW-12	GP-13-1	GP-13-2	GP-13-3	GP-13-5	GP-13-6	GP-13-8	GP-13-9	GP-13-10	GP-13-11	GP-13-13	GP-13-14	Trip Blank
PVOCs (μg/l)	ES	PAL												SAMPLES	COLLECTED JU	JNE 3, 2013										
		0.5		1	ı			1	ı	.0.00	ı	1	1		.0.00			0.40.1	4=		.0.00	.0.00	0.0	.0.00	.0.00	.0.00
Benzene	5	0.5				<0.36				<0.36					<0.36	<0.36	<0.36	0.46 J	17	<0.36	<0.36	<0.36	2.0	<0.36	<0.36	<0.36
Ethylbenzene	700	140				<0.37				<0.37					<0.37	<0.37	<0.37	<0.37	1.4	<0.37	<0.37	<0.37	15	<0.37	<0.37	<0.37
MTBE	60	12	Not	Not	Not	<0.24	Not	Not	Not	<0.24	Not	Not	Not Sampled	Not	<0.24	0.59	<0.24	0.37 J	0.53	<0.24	<0.24	<0.24	0.37 J	<0.24	<0.24	<0.24
Toluene	800	160	Sampled	Sampled	Sampled	<0.33	Sampled	Sampled	Sampled	<0.33	Sampled	Sampled		Sampled	<0.33	<0.33	<0.33	<0.33	0.95	<0.33	<0.33	<0.33	<0.33	0.40 J	<0.33	<0.33
Trimethylbenzenes	480	96				<0.60 *				<0.60 *					<0.60 *	1.30 J*	<0.60 *	0.62 *	13.6 *	<0.60 *	<0.60 *	16.9 *	37.4 B*	<0.60 *	<0.60 *	<0.60 *
Xylenes, total	2,000	400				<0.58				<0.58					<0.58	<0.58	<0.58	0.64 J	7.7	<0.58	<0.58	<0.58	12 B	<0.58	<0.58	<0.58
PAH's (μg/l)																										
1-Methylnaphthalene	-	-				<0.77				<0.77		Well could		Well could	<0.77	4.4	<0.76	36	140	<0.77	<1.0	290	470	<0.77	<0.78	
2-Methylnaphthalene	-	-				<0.13				<0.13		not be		not be	<0.13	<0.13	<0.13	8.1	56	<0.13	<0.17	5.7	230	<0.13	<0.13	
Acenaphthene	-	-	Well could not be	Well could		<0.19				<0.19		found. According to		found. According to	<0.19	2.3	<0.19	4.1	9.1	<0.19	<0.26	12	19	<0.19	<0.19	
Acenaphthylene	-	-	found.	not be		<0.21				<0.21		old RMT		old RMT	<0.21	<0.20	<0.20	<0.21	1.3 J	<0.21	<0.28	3.1	2.6	<0.21	<0.21	
Anthracene	3,000	600	According to	found.		<0.28				<0.28	Well could	reports, the		reports, the	<0.29	<0.28	<0.28	<0.28	1.3 J	<0.28	<0.38	2.8	1.3 J	<0.29	<0.29	
Benzo (a) anthracene	-	-	old RMT	According to	Well could	<0.10		Well could not be	Well could	<0.10	not be	well was	Well could	well was	<0.10	<0.098	<0.099	<0.10	0.98	0.24 J	<0.14	<0.10	0.39	<0.10	<0.10	
Benzo (a) pyrene	0.2	0.02	reports, the	old RMT	not be sampled.	<0.12	Well could	sampled.	not be	<0.12	found.	damaged or	not be sampled due	damaged or	<0.12	<0.11	<0.11	<0.12	0.83	0.37	<0.16	<0.12	<0.12	<0.12	<0.12	
Benzo (b) fluoranthene	0.2	0.02	well was	reports, the	Well was	<0.13 *	not be	Well was	sampled	<0.13 *	Buried	buried	to a truck for	buried	<0.13	<0.12 *	<0.12 *	<0.13 *	0.47 *	0.78 *	<0.17 *	<0.13 *	<0.13 *	<0.13 *	<0.13 *	
Benzo (g,h,i) perylene	-	-	damaged or buried	well was damaged or	found but it	<0.74	found. Buried	found but it	due to construction	<0.74	under soil. Well not	during installation	construction	during installation	<0.74	<0.73	<0.73	<0.74	<0.74	<0.74	<1.0	<0.74	<0.75	< 0.75	<0.76	
Benzo (k) fluoranthene	-	-	during	buried	was half	<0.26	under soil.	was filled	equipment	<0.26	planned to	of the	of the	of the	<0.26	<0.25	<0.26	<0.26	1.2	<0.26	<0.35	<0.26	<0.26	<0.26	<0.26	
Chrysene	0.2	0.02	installation	during	filled with	<0.14	Replaced by	with	for railroad	<0.14	be sampled	remediation	railroad	remediation	<0.14	<0.14	<0.14	<0.14	1.1	0.30 J	<0.19	<0.14	0.50 J	<0.14	<0.15	
Dibenz (a,h) anthracene	-	-	of the	installation	dirt/gravel above the	<0.17	GP-13-1.	dirt/gravel to the ground	tunnel over	<0.17	during this	system in	tunnel being	system in	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.23	<0.17	<0.18	<0.18	<0.18	
Fluoranthene	400	80	remediation	of the	water table	<0.31		surface.	the well.	<0.31	phase of	1996. Well	parked over the well.	1996. Well	<0.31	<0.31	<0.31	<0.31	2.2	<0.31	<0.42	<0.31	0.61 J	<0.31	<0.32	
Fluorene	400	80	system in	remediation	water table	<0.26		Surface.		<0.26	work.	not planned	tric well.	not planned	<0.26	1.3 J	<0.25	2.4	9.2	<0.26	< 0.35	15	32	<0.26	<0.26	
Indeno (1,2,3-cd) pyrene	-	-	1996. Replaced by	system in 1996.		<0.12				<0.12		to be sampled		to be sampled	<0.12	<0.12	<0.12	<0.12	0.29 J	<0.12	<0.16	<0.12	<0.12	<0.12	<0.12	
Naphthalene	100	10	GP-13-8.	1990.		<0.24				<0.24		during this		during this	<0.24	<0.23	<0.23	<0.24	21	<0.24	< 0.32	4.5	32	<0.24	<0.24	
Phenanthrene	-	-	51 10 0.			<0.32				<0.32		phase of		phase of	<0.33	<0.32	<0.32	3.0	18	<0.33	<0.44	34	40	<0.33	<0.33	
Pyrene	250	50				<0.35				<0.35		work.		work.	<0.35	<0.34	< 0.34	<0.35	2.2	0.38 J	<0.47	1.2 J	3.5	<0.35	<0.36	

Notes:

- 1. PVOCs = Petroleum Volatile Organic Compounds analyzed using EPA Method 8260; only the VOCs detected are listed above.
- μg/l = micrograms per liter (ppb).
- 3. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
- 4. NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
- ND = not detected.
- 6. PAHs = Polycyclic Aromatic Hydrcarbons
- 7. J = result is reported between Method Detection Limit and Limit of Quantitation (LOQ) and are therefore less certain than results detected at or above the LOQ.
- 8. B = Compound was found in the blank and sample.
- 9. ** Sample MW-8 was incorrectly labeled as MW-2R. The results for the sample labeled MW-2R are actually for MW-8.
- 10. * Laboratory Control Spike or Laboratory Control Spike Duplicate exceeds the control limits.
- 11. -- = Not Analyzed
- 12. = No Standard
- 13. Results in **BOLD** indicate an exceedence of the NR 140, WAC ES.
- 14. Results in *Italics* indicate an exceedence of the NR 140, WAC PAL.

Created by: B. Bergmann 6/19/13 Checked by: T. Stapel 6/20/13

TABLE 1

MONITORING WELL 1

QUARTERLY GROUNDWATER SAMPLING RESULTS

MILWAUKEE COUNTY ZOO - FORMER BLIFFERT LUMBER CO. SITE

Analyte	ES	PAL	Units							M	W-1					- 0	
	NR140.10	NR140.10		Base (3)	11/14/96	02/26/97	05/14/97	08/26/97	11/18/97	02/26/98	05/11/98	08/20/98	11/18/98	02/24/99	07/26/99*	11/16/99	2/08/0
olatile Organic Compounds																	
- Benzene	5	0.5	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-		N.D.	N.S.	N.D.	N.D.	N.D
- n- Butylbenzene			ug/L	N.D.		N.D.	N.D.	N.D.		N.D.					N.D.	N.D.	
- sec- Butylbenzene			ug/L	N.D.		N.D.	N.D.	N.D.		N.D.					N.D.	N.D.	
- tert- Butylbenzene			ug/L	N.D.		N.D.	N.D.	N.D.		N.D.					N.D.	N.D.	
- 1,2- Dichloroethane	5	0.5	ug/L	N.D.		N.D.	N.D.	N.D.		N.D.				-	N.D.	N.D.	
- Ethylbenzene	700	140	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N.E
- Isopropylbenzene			ug/L	N.D.		N.D.	N.D.	N.D.		N.D.				-	N.D.	N.D.	
- p-Isopropyltoluene			ug/L	N.D.		N.D.	N.D.	N.D.		N.D.					N.D.	N.D.	
- Methylene chloride (1)	5	0.5	ug/L	44		N.D.	N.D.	N.D.		N.D.				41.00	N.D.	N.D.	
- Methyl-tert-butyl-ether/MTBE	60	12	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		-	N.D.	N.S.	N.D.	N.D.	N.E
- Naphthalene	40	8	ug/L	N.D.		N.D.	N.D.	N.D.		N.D.					N.D.	N.D.	
- n-Propylbenzene			ug/L	N.D.		N.D.	N.D.	N.D.		N.D.				-	N.D.	N.D.	
- Toluene	343	68.6	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N.E
- 1,2,4-Trimethylbenzene	480	96	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N.E
- 1,3,5-Trimethylbenzene	400	96	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	=		N.D.	N.S.	N.D.	N.D.	N.E
- Xylene, (total)	620	124	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N.E
otal VOCs Detected (2)			ug/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0	0.0	0.0	0.0
asoline Range Organics			ug/L	N.D.	N.D.												
	_																
Polynuclear Aromatic Hydrocarbons										- N.D.			ND	- N.C	ND	LND	I NIE
- Acenaphthene			ug/L	N.D.	an an	S.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	
- Acenaphthene - Acenaphthylene			ug/L	N.D.		S.D.	N.D.	N.D.	N.D.	N.D.		-	N.D.	N.S.	N.D.	N.D.	N.E
- Acenaphthene - Acenaphthylene - Anthracene	3,000	600	ug/L ug/L	N.D. N.D.		S.D. S.D.	N.D.	N.D.	N.D.	N.D. N.D.			N.D. N.D.	N.S. N.S.	N.D.	N.D. N.D.	N.E
- Acenaphthene - Acenaphthylene			ug/L ug/L ug/L	N.D. N.D. N.D.		S.D. S.D. S.D.	N.D. N.D. N.D.	N.D. N.D. N.D.	N.D. N.D. 0.032	N.D. N.D. N.D.			N.D. N.D. N.D.	N.S. N.S. N.S.	N.D. N.D. N.D.	N.D. N.D. N.D.	N.E N.E N.E
- Acenaphthene - Acenaphthylene - Anthracene	0.2	0.02	ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D.	N.D. N.D. 0.032 0.034	N.D. N.D. N.D. N.D.	66		N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D.	N.E N.E N.E
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene			ug/L ug/L ug/L	N.D. N.D. N.D.		S.D. S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. 0.032 0.034 0.062	N.D. N.D. N.D. N.D. N.D.			N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D.	N.E N.E N.E N.E
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(a) pyrene	0.2	0.02	ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. 0.089	N.D. N.D. 0.032 0.034 0.062 0.14	N.D. N.D. N.D. N.D. N.D. N.D.	66		N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.	N.E N.E N.E N.E N.E
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(a) pyrene - Benzo(b) fluoranthene	0.2	0.02	ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. 0.089	N.D. N.D. 0.032 0.034 0.062	N.D. N.D. N.D. N.D. N.D. N.D.			N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.E N.E N.E N.E N.E N.E
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,h,i) perylene	0.2	0.02	ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. 0.089 N.D.	N.D. N.D. 0.032 0.034 0.062 0.14 0.024 N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	400		N.D. N.D. N.D. N.D. N.D. N.D. O.085	N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. 0.073	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.E N.E N.E N.E N.E N.E N.E
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,h,i) perylene - Benzo(k) fluoranthene	0.2	0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. 0.089 N.D. N.D. N.D.	N.D. N.D. 0.032 0.034 0.062 0.14	N.D. N.D. N.D. N.D. N.D. N.D.	40		N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.E N.E N.E N.E N.E N.E N.E N.E
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,h,i) perylene - Benzo(g,h) fluoranthene - Benzo(g,h) fluoranthene	0.2	0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. 0.089 N.D.	N.D. N.D. 0.032 0.034 0.062 0.14 0.024 N.D. 0.026 N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.			N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.E N.E N.E N.E N.E N.E N.E N.E N.E
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,h,i) perylene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene	0.2 0.2 0.2	0.02 0.02 0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. 0.089 N.D. N.D. N.D.	N.D. N.D. 0.032 0.034 0.062 0.14 0.024 N.D. 0.026 N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	40		N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.E N.E N.E N.E N.E N.E N.E N.E N.E N.E
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,h,i) perylene - Benzo(k) fluoranthene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene - Fluoranthene	0.2 0.2 0.2 400	0.02 0.02 0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. 0.032 0.034 0.062 0.14 0.024 N.D. 0.026 N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.			N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.E N.E N.E N.E N.E N.E N.E N.E N.E N.E
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,h,i) perylene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene - Fluoranthene	0.2 0.2 0.2 400	0.02 0.02 0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. 0.032 0.034 0.062 0.14 0.024 N.D. 0.026 N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	40		N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.E. N.E. N.E. N.E. N.E. N.E. N.E. N.E.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,h,i) perylene - Benzo(k) fluoranthene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene - Fluorene - 1-Methylnapthalene - 2-Methylnapthalene	0.2 0.2 0.2 400	0.02 0.02 0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D. S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. 0.032 0.034 0.062 0.14 0.024 N.D. 0.026 N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.			N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.E. N.E. N.E. N.E. N.E. N.E. N.E. N.E.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(a) pyrene - Benzo(b) fluoranthene - Benzo(k) fluoranthene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene - Fluorene - 1-Methylnapthalene - 2-Methylnapthalene - Naphthalene	0.2 0.2 0.2 400 400	0.02 0.02 0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. 0.032 0.034 0.062 0.14 0.024 N.D. 0.026 N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.			N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.I. N.I. N.I. N.I. N.I. N.I. N.I. N.I.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,h,i) perylene - Benzo(g,h,i) perylene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene - Fluorene - 1-Methylnapthalene - 2-Methylnapthalene - Naphthalene - Phenanthrene	0.2 0.2 0.2 400 400	0.02 0.02 0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D. S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. 0.032 0.034 0.062 0.14 0.024 N.D. 0.026 N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.			N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.I. N.I. N.I. N.I. N.I. N.I. N.I. N.I.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(b) fluoranthene - Benzo(k) fluoranthene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene - Fluorene - 1-Methylnapthalene - 2-Methylnapthalene	0.2 0.2 0.2 400 400	0.02 0.02 0.02 0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.		S.D. S.D. S.D. S.D. S.D. S.D. S.D. S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. 0.032 0.034 0.062 0.14 0.024 N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.			N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.E N.E N.E N.E N.E N.E N.E

- (1) The methylene chloride detections have been attributed to background laboratory contamination.
- (2) Methylene chloride is not included in the VOC totals.
- (3) Base data was collected on May 11, 1994.
- N.D. Not Detected
- S.D. Sample Dropped In Laboratory
- N.S. Well Not Sampled
- * MW-5 was relocated on May 14, 1997.
 - Natural Attenuation Sampling
- Not Analyzed For

Shaded areas indicate levels above the Enforcement Standard (ES)

TABLE 1 (Continued)

MONITORING WELLS 2R (EW-5)

QUARTERLY GROUNDWATER SAMPLING RESULTS

MILWAUKEE COUNTY ZOO - FORMER BLIFFERT LUMBER CO. SITE

Analyte ES PAL Units MW-2R (EW-5)																	
803-860 3 03-860	NR140.10	NR140.10		Base (3)	11/14/96	02/26/97	05/14/97	08/26/97	11/18/97	02/27/98	05/11/98	08/20/98	11/18/98	02/24/99	07/28/99	11/15/99	02/08/00
Volatile Organic Compounds					NAME OF TAXABLE PARTY.												
- Benzene	5	0.5	ug/L	4.4	-	3.9	3.1	N.D.	N.D.	N.D.	N.D.	2.8	3.6	1.8	0.9	2.5	2.6
- n- Butylbenzene			ug/L	81	-	7.0	8.8	150.0	-	N.D.	45	-	-		0.74	N.D.	-
- sec- Butylbenzene			ug/L	67	-	4.3	26	N.D.	-	120	25	-	-	-	0.93	3.3	-
- tert- Butylbenzene			ug/L	24	-	N.D.	N.D.	N.D.	-	N.D.	N.D.	-	-		N.D.	N.D.	-
- 1,2- Dichloroethane	5	0.5	ug/L	N.D.	-	N.D.	N.D.	N.D.	-	N.D.	N.D.	-			N.D.	N.D.	-
- Ethylbenzene	700	140	ug/L	56	-	21	28	60	52	64	7	6.6	10	11	2.6	7.9	11
- Isopropylbenzene			ug/L	19	-	5.3	N.D.	N.D.	-	12	3	-	-	-	N.D.	2.7	-
- p-Isopropyltoluene			ug/L	56	-	4.7	N.D.	N.D.	-	49	5	-	-	-	1.2	2.8	-
- Methylene chloride (1)	5	0.5	ug/L	4.9	-	N.D.	N.D.	N.D.	-	N.D.	N.D.	-	-	-	N.D.	N.D.	-
- Methyl-tert-butyl-ether/MTBE	60	12	ug/L	N.D.	-	N.D.											
- Naphthalene	40	8	ug/L	120	-	N.D.	N.D.	520	_	N.D.	23	-		-	12	7.2	-
- n-Propylbenzene			ug/L	44	-	8.6	30	53	-	140	17	-	-	-	1.5	5.9	-
- Toluene	343	68.6	ug/L	N.D.	-	N.D.	N.D.	N.D.	13	N.D.	2	11	13	3.3	6.3	4.1	2.8
- 1,2,4-Trimethylbenzene	100	0.4	ug/L	240	-	110	81	200	170	200	49	25	20	24	6.9	16	10
- 1,3,5-Trimethylbenzene	480	96	ug/L	16	-	N.D.	N.D.	110	N.D.	33	5	1.3	N.D.	N.D.	N.D.	1.4	6.7
- Xylene, (total)	620	124	ug/L	53	-	19	9.4	26	26	34	7	5.6	7	7.8	2.2	14	9
Total VOCs Detected (2)			ug/L	780.4	0.0	183.8	186,3	1119.0	261.0	652.0	188.0	52.3	53.6	47.9	35.3	67.8	42.1
Gasoline Range Organics	-		ug/L	N.D.	-	T -	-	-		-	-	-	-	-	T	Ι =	_
						-											
Polynuclear Aromatic Hydrocarbons				1													
- Acenaphthene			ug/L	N.D.	-	5.1	1900	15	430	N.D.	260	17	5.9	3.9	1.1	4.3	7.7
- Acenaphthylene			ug/L	N.D.	-	S.D.	N.D.	N.D.	N.D.	N.D.		-	N.D.	N.S.	N.D.	N.D.	N.D.
- Anthracene	3,000	600	ug/L	N.D.	-	0.52	47	3.9	120	N.D.	N.D.	4.9	1.3	0.53	N.D.	0.63	1.6
- Benzo(a) anthracene			ug/L	N.D.	-	0.31	26	N.D.	20	160	140	N.D.	4	N.D.	N.D.	N.D.	N.D.
- Benzo(a) pyrene	0.2	0.02	ug/L	N.D.	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1	N.D.	N.D.	N.D.	N.D.	N.D.
- Benzo(b) fluoranthene	0.2	0.02	ug/L	N.D.		N.D.											
- Benzo(g,h,i) perylene			ug/L	-	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	0.31	N.D.	N.D.	N.D.	N.D.	N.D.
- Benzo(k) fluoranthene	van Errea		ug/L	-		-	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.11	0.089	0.079	N.D.	N.D.
- Chrysene	0.2	0.02	ug/L	-		-	58	N.D.	38	N.D.	49	330	N.D.	N.D.	N.D.	N.D.	2.8
- Dibenzo(a,h) anthracene		100	ug/L	-	-	-	N.D.										
- Fluoranthene	400	80	ug/L	N.D.	-	19	4700	250	6400	160	350	500	N.D.	24	N.D.	N.D.	220
- Fluorene	400	80	ug/L	63	-	5.2	N.D.	N.D.	560	97	74	7.8	3.3	1.5	N.D.	2.3	4.8
- 1-Methylnapthalene			ug/L	211	-	N.D.	1200	170	3300	N.D.	290	110	39	N.D.	1.1	43	32
- 2-Methylnapthalene			ug/L	177	-	N.D.	N.D.	210	3600	N.D.	110	N.D.	2.5	2	N.D.	2.5	3.2
- Naphthalene	40	8	ug/L	N.D.		N.D.	12	1.4	N.D.	N.D.	N.D.						
- Phenanthrene			ug/L	N.D.	-	2.9	N.D.	51	1500	N.D.	120	62	13	6.7	0.65	8.8	14
- Pyrene	250	50	ug/L	-	-	N.D.	N.D.	3.9	170	100	500	N.D.	6.4	0.92	0.29	N.D.	3
- Indeno (1,2,3-cd) pyrene			ug/L	-					-	N.D.							
Total PAHs Detected			ug/L	451.0	0.0	33.0	7931.0	703.8	16,138.0	517.0	1893.0	1033.1	87.5	41.0	3.2	61.5	289.1

- (1) The methylene chloride detections have been attributed to background laboratory contamination.
- (2) Methylene chloride is not included in the VOC totals.
- (3) Base data was collected on May 11, 1994. N.D. Not Detected

Sample Dropped In Laboratory S.D.

N.S. Well Not Sampled

- MW-5 was relocated on May 14, 1997.
- Natural Attenuation Sampling

Not Analyzed For

Shaded areas indicate levels above the Enforcement Standard (ES)

TABLE 1 (Continued) MONITORING WELL 3 **OUARTERLY GROUNDWATER SAMPLING RESULTS** MILWAUKEE COUNTY ZOO - FORMER BLIFFERT LUMBER CO. SITE Units ES PAL Base (3) 11/14/96 02/26/97 05/14/97 08/26/97 02/26/98 11/18/98 07/28/99 NR140.10 NR140.10 Volatile Organic Compounds N.D. 14 59 N.D. N.D. 4.2 15 12 Benzene 0.5 ug/L N.D. 37 N.D. 21 4.5 N.D. 32 n- Butylbenzene ug/L 34 N.D. 2.7 N.D. N.D. N.D. 19 11 - sec- Butylbenzene ug/L 20 N.D. N.D. N.D. N.D. - tert- Butylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. - 1,2- Dichloroethane 0.5 ug/L N.D. N.D. 35 52 N.D. 35 20 11 35 700 140 42 N.D. N.D. 36 N.D. 25 - Ethylbenzene ug/L 3.5 N.D. 8.7 N.D. N.D. ug/L Isopropylbenzene N.D. 2.2 p-Isopropyltoluene 19 N.D. N.D. ND ug/L N.D. N.D. N.D. N.D. N.D. N.D. Methylene chloride (1) ug/L 15 N.D. N.D. Methyl-tert-butyl-ether/MTBE ND. N.D. N.D. 5.6 N.D. N.D. N.D. N.D. 1.8 60 ug/L N.D. N.D. 450 N.D. 2.9 -10 ug/L Naphthalene 6.7 13 ug/L 19 12 24 N.D. 14 18 n-Propylbenzene ND N.D. N.D. N.D. 0.7 11 5.5 N.D. 1.2 - Toluene 343 ug/L N.D. 44 N.D. N.D. 73 120 39 61 46 31 11 60 ND 76 93 1,2,4-Trimethylbenzene ug/L 140 480 N.D. 12 N.D. N.D. 30 N.D. N.D. 1.2 1.4 2.3 3.4 - 1,3,5-Trimethylbenzene ug/L 4.7 13 17.6 N.D. 5.7 3.1 620 124 ug/L 27 6.9 11 26 8.5 Xylene, (total) 58,8 59.8 174.8 160.0 180.1 84.3 65.9 586.0 90.0 183.0 433.7 103.0 Total VOCs Detected (2) ug/L 3,900 2,500 Gasoline Range Organics ug/L Polynuclear Aromatic Hydrocarbons 8.5 9.5 11 15 16 7.8 ug/L N.D. 15 N.D. 540 ND - Acenaphthene N.S. N.D. 29 N.D. ND N.D. N.D. - Acenaphthylene ug/L N.D. S.D. N.D. 0.89 1.7 1.9 1.6 2.9 N.D. 4.9 140 N.D. N.D. Anthracene 3.000 ug/L 1.5 0.2 N.D. N.D. N.D. 1.0 18.0 11 18 N.D. 1.3 0.52 N.D. Benzo(a) anthracene ug/L ND N.D. 0.55 N.D. 0.66 0.2 ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. Benzo(a) pyrene N.D. N.D. 0.4 0.27 ND ND N.D. 0.2 N.D. N.D. N.D. N.D. - Benzo(b) fluoranthene 0.02 ug/L N.D. - Benzo(g,h,i) perylene ug/L N.D. N.D. 0.1 0.078 N.D. ND ND ug/L N.D. N.D. N.D. Benzo(k) fluoranthene N.D. 7.8 180 N.D. N.D. N.D. N.D. N.D. N.D 44 ug/L 12 - Chrysene N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. - Dibenzo(a,h) anthracene ug/L 200 250 27 77 N.D. 130 7000 94 400 80 ug/L N.D. 72 1100 300 - Fluoranthene 27 50 50 5.1 3.4 2.6 N.D. 4.1 8.3 N.D. 670 - Fluorene 400 80 ug/L 341 16 79 150 300 220 4600 120 280 130 56 24 160 1480 N.D. - 1-Methylnapthalene ug/L 9.2 27 8.5 8,5 13 1590 N.D. 130 3200 N.D. 75 39 - 2-Methylnapthalene ug/L N.D. 2.1 0.44 3.7 1.2 2.1 6.2 7.3 N.D. N.D. 22 ND - Naphthalene ug/L 49 39 15 14 21 40 N.D. 55 2000 94 457 22 - Phenanthrene 3.8 N.D. 210 100 N.D. 2.4 2.5 N.D. ND N.D. 4.4 250 50 ug/L N.D. N.D. N.D. N.D. - Indeno (1,2,3-cd) pyrene ug/L 673.8 664.2 95.9 18412.0 685.0 Total PAHs Detected ug/L 4005.0 0.0 148.7 1412.0 (1) The methylene chloride detections have been attributed to background laboratory contamination. (2) Methyline chloride is not included in the VOC totals. (3) Base data was collected on May 11, 1994. N.D. Not Detected Sample Dropped in Laboratory S.D. N.S. Well Not Sampled MW-5 was relocated on May 14, 1997 Natural Attenuation Sampling Not Analyzed For Shaded areas indicate levels above the Enforcement Standard (ES)

TABLE 1 (Continued) MONITORING WELL 4 QUARTERLY GROUNDWATER SAMPLING RESULTS MILWAUKEE COUNTY ZOO - FORMER BLIFFERT LUMBER CO. SITE Analyte ES PAL Units 07/27/99 11/16/99 02/08/00 02/26/98 05/11/98 11/17/98 02/24/99 NR140.10 NR140.10 11/14/96 02/26/97 05/14/97 08/26/97 11/18/97 08/20/98 Volatile Organic Compounds N.D. N.D. N.D. N.D. N.S. N.D. N.D. N.D. N.D. N.D. N.D. N.D. Benzene ug/L N.D. N.D. N.D. 2 N.D. N.D. N.D. n- Butylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. sec- Butylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. tert- Butylbenzene ug/L N.D. N.D. N.D. N.D. N.D. 1,2- Dichloroethane N.D. N.S. N.D. N.D. N.D. 700 140 N.D. N.D. N.D. N.D. N.D. N.D. N.D. - Ethylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. Isopropylbenzene ug/L N.D. N.D. p-Isopropyltoluene N.D. N.D. N.D. N.D. ug/L N.D. N.D. N.D. N.D. N.D N.D. Methylene chloride (1) ug/L 40 60 N.D. N.D. N.D. N.D. N.D. N.D. N.S. N.D. N.D. N.D. N.D. Methyl-tert-butyl-ether/MTBE 40 N.D. N.D. N.D. N.D. N.D. 8 ug/L Naphthalene N.D. N.D. N.D. N.D. N.D. - n-Propylbenzene ug/L N.D. N.S. N.D. N.D. 343 68.6 N.D. N.D. N.D. N.D. N.D. - Toluene ug/L N.D. N.S. N.D. N.D. N.D. N.D. N.D. N.D. - 1,2,4-Trimethylbenzene ug/L N.D N.D 480 N.D. N.D. N.D. N.D. N.D. N.D. N.S. N.D. N.D. ug/L N.D. 1,3,5-Trimethylbenzene N.D. N.D. N.S. N.D. N.D. N.D. N.D. - Xylene, (total) 124 ug/L N.D. N.D. N.D. N.D. N.D. 0.0 0.0 0.0 0.0 Total VOCs Detected (2) ug/L 0.0 0.0 0.0 0.0 0.0 2.0 0 N.D. N.D. Gasoline Range Organics ug/L Polynuclear Aromatic Hydrocarbons N.D. N.D. ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.S. N.D. Acenaphthene N.D. N.S N.D. N.D. ug/L N.D. S.D. N.D. N.D. N.D. Acenaphthylene N.D. N.D. N.D. N.D. N.D. N.S N.D. 3.000 600 N.D. N.D. Anthracene ug/L N.S. N.D. N.D. N.D. N.D. N.D. - Benzo(a) anthracene ug/L N.D. N.D N.D. ND N.D. N.D. N.D. N.D. N.D. N.S. N.D. N.D. N.D. 0.02 N.D. N.D. Benzo(a) pyrene ug/L N.D. N.S. N.D. N.D. N.D. N.D. 0.2 N.D. N.D. N.D. N.D. N.D. - Benzo(b) fluoranthene ug/L N.S N.D. N.D. N.D. N.D. N.D. - Benzo(g,h,i) perylene ug/L N.S. N.D. N.D. N.D. N.D. N.D. N.D. Benzo(k) fluoranthene ug/L N.D. N.D. N.S. N.D. N.D. N.D. N.D. N.D. 0.2 - Chrysene ug/L N.D. N.S. N.D. ND. N.D. N.D. N.D. N.D. - Dibenzo(a,h) anthracene ug/L N.D. N.D. N.D. N.D. N.D. N.D N.D. - Fluoranthene 400 RN ug/L N.S. N.D. N.D. N.D. N.D. N.D. N.D. N.D. ND 400 80 - Fluorene ug/L N.D. N.D. N.S. N.D. N.D. N.D. N.D N.D. N.D. N.D. - 1-Methylnapthalene N.D. N.D. ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.S. N.D. - 2-Methylnapthalene N.D. 0.36 N.S. N.D. 40 N.D. N.D. N.D. N.D. N.D. N.D. - Naphthalene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. Phenanthrene ug/L N.D. N.D. N.S N.D. N.D. 250 N.D. N.D. N.D. - Pyrene ug/L N.D. N.S. N.D. N.D. Indeno (1,2,3-cd) pyrene 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.36 Total PAHs Detected ug/L 0.0 (1) The methylene chloride detections have been attributed to background laboratory contamination (2) Methyline chloride is not included in the VOC totals. (3) Base data was collected on May 11, 1994. N.D. Not Detected Sample Dropped In Laboratory SD N.S. Well Not Sampled MW-5 was relocated on May 14, 1997.

Natural Attenuation Sampling Not Analyzed For

Shaded areas indicate levels above the Enforcement Standard (ES)

TABLE 1 (Continued) MONITORING WELL 5 **OUARTERLY GROUNDWATER SAMPLING RESULTS** MILWAUKEE COUNTY ZOO - FORMER BLIFFERT LUMBER CO. SITE MW-5 (EW-1) Analyte ES PAL Units 8/26/97 11/18/97 11/16/99 02/08/00 5/14/97 02/24/99 NR140.10 NR140.10 Base (3) 11/14/96 02/26/97 2/26/98* 5/11/98* 8/20/98* 11/18/98 Volatile Organic Compounds - Benzene 0.5 ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. 7100 1200 N.D. 110 N.D. N.D. N.D. N.D. ND - n- Butylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. ug/L ND - sec- Butylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. - tert- Butylbenzene N.D. N.D. N.D. - 1,2- Dichloroethane ug/L N.D. N.D. N.D. N.D. N.S. N.D. N.D. N.D. 700 140 N.D. 44 39 N.D. N.D. N.D. N.D. - Ethylbenzene ug/L ND ND N.D. N.D. Isopropylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D p-Isopropyltoluene 38 N.D. N.D. N.D. N.D. N.D. N.D. - Methylene chloride (1) 0.5 ug/L N.S. N.D. N.D. N.D. - Methyl-tert-butyl-ether/MTBE 60 ug/L N.D. 3000 N.D. N.D. N.D. N.D. N.D. N.D. - Naphthalene 40 N.D. N.D. N.D. N.D. N.D. ug/L N.D. N.D. ND N.D. N.D. N.D. N.D. n-Propylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.S. N.D. - Toluene ug/L N.D. 210 N.D. N.D. N.D. N.D. N.D. N.D. N.S. N.D. N.D. 1,2,4-Trimethylbenzene ug/L N.D. 540 N.D. N.D. 480 N.D. N.D. N.D. 220 N.D. N.D. N.D. N.D. N.D. N.S. N.D. N.D. 1,3,5-Trimethylbenzene ug/L 620 45 N.D. N.D. N.D. N.D. N.D. - Xylene, (total) 0.0 0.0 Total VOCs Detected (2) ug/L 0.0 10256 4679 0.0 0.0 0.0 6,600 N.D. Gasoline Range Organics ug/L Polynuclear Aromatic Hydrocarbons N.S. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. - Acenaphthene ug/L S.D. N.D. N.D. N.D. N.D. N.D. N.S. N.D. N.D. N.D. N.D. Acenaphthylene N.D. N.S. N.D. N.D. N.D. 3,000 N.D. N.D. N.D. N.D. N.D. N.D. ug/L - Anthracene N.D. N.D. N.D. 0.029 N.D. N.D. N.D. N.D. N.D. N.D. Benzo(a) anthracene ug/L N.D. N.D. NS ND ND N.D. 0.2 N.D. N.D. Benzo(a) pyrene ug/L N.S. N.D. N.D. N.D N.D. N.D. N.D. N.D. N.D. - Benzo(b) fluoranthene ug/L N.D. N.D. N.D. ug/L N.D. N.D. N.D. N.D. N.D. N.S. N.D. Benzo(g,h,i) pervlene N.D. N.D. N.D. N.D. Benzo(k) fluoranthene ug/L N.D. N.D. N.D. N.D. ND N.D. N.D. N.D. N.D. 0.2 0.02 Chrysene ug/L N.D. N.D. N.S. N.D. N.D. N.D. N.D. Dibenzo(a,h) anthracene N.D. N.D. N.D. 400 N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.S. - Fluoranthene 80 ug/L N.D. N.S. N.D. N.D. N.D. 3.7 N.D. 400 80 ug/L N.D. N.D. N.D. - Fluorene N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. 0.2 N.D. - 1-Methylnapthalene ug/L ND N.D. N.D. N.S. N.D. ND N.D. N.D. N.D. N.D. - 2-Methylnapthalene ug/L N.D. N.D. N.D. N.S. N.D. N.D. N.D. N.D. N.D. - Naphthalene 40 ug/L N.D. N.D. N.D. N.D. N.D. 0.202 N.S. N.D. N.D. N.D. N.D. N.D. N.D. - Phenanthrene ug/L N.D. N.D. N.D. N.D. N.S. 250 50 N.D. N.D. N.D. N.D. N.D. ug/L - Pyrene N.D. N.D. N.D. - Indeno (1,2,3-cd) pyrene 0.0 0.0 3.7 0.0 0.0 0.0 0.0 Total PAHs Detected 0.0 (1) The methylene chloride detections have been attributed to background laboratory contamination. (2) Methyline chloride is not included in the VOC totals. (3) Base data was collected on May 11, 1994. Not Detected N.D

- S.D. Sample Dropped In Laboratory
- N.S. Well Not Sampled
- MW-5 was relocated on May 14, 1997.
- Natural Attenuation Sampling
- -- Not Analyzed For
 - Shaded areas indicate levels above the Enforcement Standard (ES)

TABLE 1 (Continued) MONITORING WELL 6 QUARTERLY GROUNDWATER SAMPLING RESULTS MILWAUKEE COUNTY ZOO - FORMER BLIFFERT LUMBER CO. SITE Analyte ES PAL Units 11/16/99 02/08/00 07/26/99 11/14/96 11/18/97 02/26/98 05/11/98 08/20/98 11/17/98 02/24/99 NR140.10 NR140.10 Base (3) 02/26/97 05/14/97 08/26/97 Volatile Organic Compounds N.D. N.D. N.S. N.D. N.D. N.D. ND N.D. N.D. N.D. 5 0.5 2.4 0.59 N.D. - Benzene ug/L N.D. N.D. N.D. N.D. N.D. 10 N.D. - n- Butylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. - sec- Butylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. tert- Butylbenzene ug/L N.D N.D. 0.65 N.D. 1.4 N.D. N.D. 0.62 - 1,2- Dichloroethane 0.5 ug/L N.D. N.S. ND N.D. N.D. - Ethylbenzene 700 140 ug/L N.D. ND ND - Isopropylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. - p-IsopropyItoluene ug/L N.D. N.D. N.D. ND N.D. N.D. N.D. N.D. - Methylene chloride (1) ug/L 29 7.2 7 2 7.3 9.3 N.S. 4 8 7.2 10 Methyl-tert-butyl-ether/MTBE 60 12 ug/L N.D. 11 N.D. ---N.D. N.D. N.D. N.D. N.D. ug/L N.D. - Naphthalene N.D. N.D. N.D. N.D. N.D. n-Propylbenzene ug/L N.D. N.D. N.D. N.S. N.D. N.D. N.D. N.D. N.D. 0.66 N.D. N.D. N.D. N.D. - Toluene 343 68.6 ND N.D. N.D. 2 N.D. N.D. N.S. N.D. ND - 1.2.4-Trimethylbenzene N.D. N.D. N.D. N.D. 480 96 N.D. N.D. N.D. N.D. N.D. N.S. - 1.3.5-Trimethylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. ND N.D. N.D. N.D. N.D. N.D. N.D. - Xylene, (total) 620 124 ug/L N.D. N.D. ND 2.8 8.6 10.0 7.0 14.0 7.3 0.0 4.6 8.0 Total VOCs Detected (2) ug/L 410 19.4 12.9 490 N.D. Gasoline Range Organics ug/L Polynuclear Aromatic Hydrocarbons N.D. N.D. N.D. N.D. N.S. ND N.D. N.D. N.D. N.D. N.D. - Acenaphthene ug/L N.D. N.D. N.D N.D. N.D. ug/L Acenaphthylene N.D. N.D. N.D. N.S. N.D. N.D. N.D. N.D. N.D. N.D N.D. - Anthracene 3.000 600 N.D. N.D N.D. N.D. N.D. N.D. N.D. 0.38 N.D. N.D. N.S. N.D. N.D. - Benzo(a) anthracene ug/L N.D. N.D. N.S. N.D. N.D. N.D. N.D. N.D. N.D. 0.24 ND ND 0.2 0.02 ug/L Benzo(a) pyrene N.D. N.D. ND 0.28 N.D. N.D. N.S. - Benzo(b) fluoranthene 0.2 ng/L N.D. N.S. Benzo(g,h,i) perylene ug/L ND ND N.D. 0.36 N.D. N.S. N.D. ug/L N.D. N.D. N.D. - Benzo(k) fluoranthene N.D. N.S. N.D. N.D. N.D. ND ND N.D N.D. N.D. N.D. - Chrysene ug/L N.D. N.D. N.D. N.S. N.D. N.D. N.D. N.D. N.D. N.D. - Dibenzo(a,h) anthracene N.D. N.D. N.D. N.D. N.S. 400 N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. - Eluoranthene ug/L N.D. N.S. N.D. N.D N.D. N.D. N.D. N.D. N.D. N.D. N.D. 400 - Fluorene ug/L N.D. N.S. N.D. N.D. N.D. N.D. N.D. N.D N.D. - 1-Methylnapthalene N.D. N.D. N.D. ND ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.S. N.D. N.D. N.D. N.D. - 2-Methylnapthalene ug/L N.D. N.D. N.D. N.D. N.S. N.D. 40 N.D. N.D. N.D. N.D. N.D. - Naphthalene ug/L ND N.D. N.D. N.D. N.D. N.D. N.S. N.D. - Phenanthrene ug/L N.D. N.S. N.D. N.D. N.D. N.D. N.D. 250 N.D. N.D. N.D. N.D. - Pyrene ug/L N.D. N.D. N.D. N.D. N.D. N.S. N.D. N.D. - Indeno (1,2,3-cd) pyrene ug/L Total PAHs Detected ug/L 0.0 0.0 0.0 0.0 0.0 0.0 (1) The methylene chloride detections have been attributed to background laboratory contamination. (2) Methyline chloride is not included in the VOC totals. (3) Base data was collected on May 11, 1994. N.D. Not Detected Sample Dropped In Laboratory S.D. N.S. Well Not Sampled MW-5 was relocated on May 14, 1997. Natural Attenuation Sampling Not Analyzed For Shaded areas indicate levels above the Enforcement Standard (ES)

TABLE 1 (Continued) MONITORING WELL 7 **OUARTERLY GROUNDWATER SAMPLING RESULTS** MILWAUKEE COUNTY ZOO - FORMER BLIFFERT LUMBER CO. SITE PAL. Units ES Analyte 11/18/98 02/24/99 11/16/99* 02/08/00 08/26/97 11/18/97 02/26/98 NR140.10 11/14/96 02/26/97 05/14/97 05/11/98 08/20/98 Volatile Organic Compounds 0.57 Benzene ug/L 1.3 N.D. N.D. N.D. 240 1100 150 8.2 N.D. N.D. N.D. N.D N.D. N.D. 8 n- Butylbenzene ug/L ND N.D. N.D. N.D. N.D. sec- Butylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. ng/L tert- Butylbenzene N.D. N.D. N.D. N.D. N.D. N.D. N.D. 0.79 - 1.2- Dichloroethane ug/L 18 53 9.2 0.39 N.D. N.D. 700 140 N.D. N.D. N.D. N.D. N.D. N.D. ND 10 - Ethylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. 1 Isopropylbenzene ug/L N.D. N.D. N.D. ug/L N.D. N.D. N.D. N.D. p-Isopropyltoluene N.D. N.D. N.D. Methylene chloride (1) ng/L 170 N.D. N.D. N.D. N.D. 5 260 19 35 230 140 1,300 180 Methyl-tert-butyl-ether/MTBE 60 12 ng/L 1500 26 940 N.D. N.D. ND ND N.D. N.D. 2 N.D. 40 Naphthalene ug/L N.D. N.D. N.D. N.D. 5 N.D. ND n-Propylbenzene ug/L 343 68.6 N.D. N.D. N.D. N.D. N.D. N.D. N.D. 6.6 20 0.86 N.D. N.D. N.D. Toluene ug/L ND N.D. N.D. N.D. 15 12 5.3 6.4 ND - 1,2,4-Trimethylbenzene ug/L N.D. 1.2 N.D. N.D. N.D. 1,3,5-Trimethylbenzene N.D. N.D. N.D. N.D. N.D. ND ND 5 ug/L N.D. 22 7.9 N.D. 1.3 N.D. 0.98 N.D. N.D. Xylene, (total) 620 124 ug/L N.D. N.D. N.D. 1438.3 186.8 51.2 239.0 140.6 Total VOCs Detected (2) ug/L 3000 71.3 28.2 280.0 1360.0 940.0 16.0 93.0 464.5 Gasoline Range Organics ug/L 3,600 51 Polynuclear Aromatic Hydrocarbons N.D. 0.19 N.D. N.D. N.D. N.D. N.D. N.D. N.D. - Acenaphthene ug/L N.D. ND ND N.D. ND N.D. N.D. N.D. N.D. N.S. N.D. - Acenaphthylene ug/L N.D. N.D. N.D. ND N.D. ND N.D. N.D. N.D. N.D. ND Anthracene 3,000 ng/L N.D. N.D. ND ng/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. Benzo(a) anthracene N.D. N.D. N.D. N.D. N.D. ND ND ND Benzo(a) pyrene 0.02 ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. - Benzo(b) fluoranthene N.D. N.D. N.D. ND ND N.D. ug/L N.D. Benzo(g,h,i) perylenc ug/L N.D. N.D. Benzo(k) fluoranthene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. 0.078 N.D. N.D. N.D. N.D. ND ND N.D. N D N.D. N.D. N.D. N.D. N.D. - Chrysene 0.2 0.02 ug/L N.D. N.D. N.D. N.D. - Dibenzo(a h) anthracene N.D. N.D. N.D. N.D. N.D. N.D. ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. - Fluoranthene 400 ug/L N.D. 1.2 N.D. - Fluorene 400 80 ug/L N.D. 0.094 0.34 N.D. N.D. N.D. 1-Methylnapthalene ug/L N.D. N.D. N.D. N.D. N.D. N.D. 1 N.D. ND ND. N.D. N.D. N.D. N.D. 0.34 N.D. N.D. 2-Methylnapthalene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. 0.48 0.69 0.74 N.D. 3.1 Naphthalene ug/L ND 40 N.D. N.D. 1.4 N.D. N.D. N.D. N.D. N.D. 0.19 N.D. N.D. 0.3 N.D. - Phenanthrene ug/L ND N.D. N.D. N.D. ug/L N.D. N.D. N.D. N.D. N.D. ND Pyrene N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. Indeno (1,2,3-cd) pyrene ug/L Total PAHs Detected ug/L 0.0 0.0 0.0 0.0 (1) The methylene chloride detections have been attributed to background laboratory contamination. (2) Methyline chloride is not included in the VOC totals. (3) Base data was collected on May 11, 1994. N.D. Not Detected S.D. Sample Dropped In Laboratory N.S. Well Not Sampled MW-5 was relocated on May 14, 1997. Natural Attenuation Sampling Not Analyzed For Shaded areas indicate levels above the Enforcement Standard (ES)

TABLE 1 (Continued) MONITORING WELL 8 **OUARTERLY GROUNDWATER SAMPLING RESULTS** MILWAUKEE COUNTY ZOO - FORMER BLIFFERT LUMBER CO. SITE Analyte ES PAL Units 11/16/99* 02/24/99 07/27/99 02/08/00 11/18/97 02/26/98 11/18/98 NR140.10 NR140-10 Base (3) 11/14/96 02/26/97 05/14/97 08/26/97 05/11/98 08/20/98 Volatile Organic Compounds 0.53 0.5 N.D. 0.58 N.D. N.D. 0.6 0.69 N.D. N.D. ND - Benzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. ND - n- Butylbenzene ug/L N.D. N.D. N.D. N.D. - sec- Butylbenzene N.D. N.D. N.D. N.D. N.D. - tert- Butylbenzene ug/L N.D. - 1,2- Dichloroethane ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. 700 140 N.D. N.D. N.D. N.D - Ethylbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. Isopropylbenzene N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. - p-Isopropyltoluene ug/L N.D. N.D. N.D. N.D. N.D. N.D. 50 N.D. - Methylene chloride (1) 0.5 ug/L N.D. N.D. N.D. N.D. - Methyl-tert-butyl-ether/ MTBE N.D. N.D. N.D. N.D. N.D. N.D. N.D. 12 N.D. 60 ug/L N.D. N.D. N.D. N.D. N.D. N.D. ND 40 N.D. Naphthalene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. n-Propylbenzene ug/L N.D. N.D. ND N.D. N.D. N.D N.D. N.D. N.D. N.D. N.D. 0.61 N.D. - Toluene 68.6 ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. 4.3 4.8 4.4 1.4 N.D. 1,2,4-Trimethylbenzene ND ug/L 480 N.D. 1,3.5-Trimethy lbenzene ug/L N.D. N.D. N.D. N.D. N.D. N.D. 124 N.D. 2.4 0.72 0.53 0.51 N.D. N.D ug/L - Xylene, (total) 0.53 0.7 0.0 0.0 0.0 1.0 0.0 0.0 0.6 otal VOCs Detected (2) 0.0 7.3 5.5 ug/L N.D. 53 Gasoline Range Organics ug/L Polynuclear Aromatic Hydrocarbons NI D N.D. N.D. N.D. N.D. N.D. N.D. N.D. - Acenaphthene ug/L N.D. N.D. N.S. N.D. N.D. - Acenaphthylene N.D. N.D. ND ug/L N.D. 3,000 600 N.D. N.D. Anthracene ug/L N.D. ug/L Benzo(a) anthracene N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. ND - Benzo(a) pyrene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. 0.02 N.D. N.D. ND - Benzo(b) fluoranthene ug/l ND N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. ND Benzo(g,h,i) perylene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. - Benzo(k) fluoranthene ug/L N.D. N.D. N.D. N.D. ND ND N.D. N.D ND N.D. N.D. N.D. N.D. Chrysene 0.2 ug/L N.D. - Dibenzo(a,h) anthracene ug/l ND N.D. N.D. N.D. 1.9 N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. 400 80 - Fluoranthene ug/L N.D. N.D. N.D. ND N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. 400 80 1.3 - Fluorene ug/L N.D. N.D. N.D. ND 1.1 N.D. N.D. 4.7 N.D. N.D. N.D. N.D. - 1-Methylnapthalene ug/L N.D. N.D. N.D. N.D. N.D. - 2-Methylnapthalene N.D. N.D. 3.6 N.D. N.D. N.D. N.D. ug/L N.D. 40 N.D. N.D. N.D. - Naphthalene ug/L N.D. N.D. N.D. N.D. 0.22 N.D. N.D. ND N.D. N.D. 2.7 N.D. - Phenanthrene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D 250 N.D. N.D. N.D. N.D. - Pyrene ug/L N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. - Indeno (1,2,3-cd) pyrene ug/L 0.0 0.0 0.0 0.0 Total PAHs Detected 0.0 0.0 0.0 14.2 0.0 0.0 0.0 ug/L (1) The methylene chloride detections have been attributed to background laboratory contamination. (2) Methyline chloride is not included in the VOC totals. (3) Base data was collected on May 11, 1994. N.D. Not Detected S.D. Sample Dropped In Laboratory Well Not Sampled N.S. MW-5 was relocated on May 14, 1997. Natural Attenuation Sampling Not Analyzed For

Shaded areas indicate levels above the Enforcement Standard (ES)

	ES	PAL	Units							MV	11-3						
	NR140.10	NR140.10		Base (3)	11/14/96	02/26/97	05/14/97	08/26/97	11/18/97	02/26/98	05/11/98	08/20/98	11/18/98	02/24/99	07/26/99*	11/16/99*	02/08/00
Volatile Organic Compounds																	
- Benzene	5	0.5	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	***		N.D.	N.S.	N.D.	N.D.	N.D.
- n- Butylbenzene			ug/L	N.D.	N.D.		N.D.	N.D.		N.D.					N.D.	N.D.	-
- sec- Butylbenzene			ug/L	N.D.	N.D.		N.D.	N.D.		N.D.		_			N.D.	N.D.	
- tert- Butvlbenzene			ug/L	N.D.	N.D.		N.D.	N.D.	_	N.D.					N.D.	N.D.	
- 1,2- Dichloroethane	5	0.5	ug/L	N.D.	N.D.		N.D.	N.D.		N.D.					N.D.	N.D.	
- Ethylbenzene	700	140	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	4.4		N.D.	N.S.	N.D.	N.D.	N.D.
- Isopropylbenzene			ug/L	N.D.	N.D.	-	N.D.	N.D.		N.D.			_	**	N.D.	N.D.	
- p-Isopropyltoluene			ug/L	N.D.	N.D.		N.D.	N.D.		N.D.					N.D.	N.D.	
- Methylene chloride (1)	5	0.5	ug/L	N.D.	40		N.D.	N.D.		N.D.					N.D.	N.D.	
- Methyl-tert-butyl-ether/MTBE	60	12	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N.D.
- Naphthalene	40	8	ug/L	N.D.	N.D.		N.D.	N.D.		N.D.					N.D.	N.D.	
- n-Propylbenzene			ug/L	N.D.	N.D.		N.D.	N.D.		N.D.					N.D.	N.D.	
- Toluene	343	68.6	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N.D.
- 1,2,4-Trimethylbenzene	480	96	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		_	N.D.	N.S.	N.D.	N.D.	N.D.
- 1,3,5-Trimethylbenzene	480	96	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N.D.
- Xylene, (total)	620	124	ug/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	**		N.D.	N.S.	N.D.	N.D.	N.D.
Total VOCs Detected (2)			ug/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0
Gasoline Range Organics			ug/L		N.D.	N.D.								-			
Delimination Assessatio Hardeness bond				1													
Polynuclear Aromatic Hydrocarbons			.ue /1	ND	LND	r	ND	ND	ND	I ND			I ND	INS	N.D.	N.D.	I N.D.
- Acenaphthene			ug/L	N.D.	N.D.	 S.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N.D.
- Acenaphthene - Acenaphthylene	3,000	600	ug/L	N.D.		S.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N.D.
- Acenaphthene - Acenaphthylene - Anthracene	3,000	600	ug/L ug/L	N.D. N.D.	N.D.	S.D.	N.D. N.D.	N.D. N.D.	N.D. N.D.	N.D. N.D.			N.D. N.D.	N.S. N.S.			N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene			ug/L ug/L ug/L	N.D. N.D. N.D.	N.D. N.D.	S.D. 	N.D. N.D. N.D.	N.D. N.D. N.D.	N.D. N.D. N.D.	N.D. N.D. N.D.	-		N.D. N.D. N.D.	N.S. N.S. N.S.	N.D. N.D. N.D.	N.D. N.D. N.D.	N.D. N.D. N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(a) pyrene	0.2	0.02	ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D.	N.D.	S.D.	N.D. N.D. N.D.	N.D. N.D. N.D.	N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D.			N.D. N.D.	N.S. N.S.	N.D. N.D.	N.D. N.D.	N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene			ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D.	S.D. 	N.D. N.D. N.D.	N.D. N.D. N.D.	N.D. N.D. N.D.	N.D. N.D. N.D.		## DE TO	N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(b) fluoranthene - Benzo(g,lij) perylene	0.2	0.02	ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D.	S.D.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.	4-01 		N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,l,i) perylene - Benzo(g,l,i) torythene - Benzo(k) fluoranthene	0.2	0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D.	S.D.	N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	## ## ## ## ## ## ## ## ## ## ## ## ##	N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,lui) perylene - Benzo(k) fluoranthene - Chrysene	0.2	0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D.	S.D.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D.		40 00 00 00 00 00 00 00 00 00 00 00 00 0	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,l,i) perylene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene	0.2	0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D.	S.D.	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.			N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,l,i) perylene - Benzo(g,l,i) perylene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene	0.2 0.2 0.2 400	0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D.	S.D.	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	41 41 41 41 41 41 41 41 41 41 41 41 41 4	## ## ## ## ## ## ## ## ## ## ## ## ##	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,l,ti) perylene - Benzo(g,l,ti) perylene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene - Fluoranthene	0.2 0.2 0.2	0.02 0.02 0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D.	S.D.	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.		40 40 40 40 40 40 40 40 40 40 40 40 40 4	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,h,i) perylene - Benzo(g,lh,i) perylene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene - Fluoranthene - Tluorene - 1-Methylnapthalene	0.2 0.2 0.2 400	0.02 0.02 0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D.	S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	40		N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.
- Acenaphthene - Acenaphthylene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(b) fluoranthene - Benzo(k) fluoranthene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene - Fluorene - I-Methylmapthalene - 2-Methylmapthalene	0.2 0.2 0.2 400 400	0.02 0.02 0.02 0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	44 44 44 44 44 44 44 44 44 44 44 44 44	44 44 44 44 44 44 44 44 44 44 44 44 44	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(b) fluoranthene - Benzo(k) fluoranthene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene - Fluorene - 1-Methylnapthalene - 2-Methylnapthalene - Naphthalene	0.2 0.2 0.2 400	0.02 0.02 0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. 	S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	40 40 40 40 40 40 40 40 40 40 40 40 40 4		N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(g,l,i) perylene - Benzo(g,l,i) perylene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene - Fluorene - 1-Methylnapthalene - 2-Methylnapthalene - Naphthalene - Phenanthrene	0.2 0.2 0.2 400 400	0.02 0.02 0.02 0.02 80 80	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.			N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.
- Acenaphthene - Acenaphthylene - Anthracene - Benzo(a) anthracene - Benzo(b) fluoranthene - Benzo(b) fluoranthene - Benzo(k) fluoranthene - Benzo(k) fluoranthene - Chrysene - Dibenzo(a,h) anthracene - Fluoranthene - Fluorene - 1-Methylnapthalene - 2-Methylnapthalene - Naphthalene	0.2 0.2 0.2 400 400	0.02 0.02 0.02 0.02	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. 	S.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.			N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.S.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.

KEY:

- (1) The methylene chloride detections have been attributed to background laboratory contamination.
- (2) Methyline chloride is not included in the VOC totals.
- (3) Base data was collected on May 11, 1994.
- N.D. Not Detected
- S.D. Sample Dropped In Laboratory
- N.S. Well Not Sampled
- MW-5 was relocated on May 14, 1997.
 - Natural Attenuation Sampling
- -- Not Analyzed For
 - Shaded areas indicate levels above the Enforcement Standard (ES)

TABLE 1 (Continued) MONITORING WELL 10 (EW-7) QUARTERLY GROUNDWATER SAMPLING RESULTS MILWAUKEE COUNTY ZOO - FORMER BLIFFERT LUMBER CO. SITE Analyte PAL Units ES MW-10 (EW-7) 02/08/00 11/15/99 NR140.10 NR140.10 05/14/97 08/20/98 11/18/98 02/24/99 07/28/99 Base (3) 11/14/96 02/26/97 08/26/97 11/18/97 02/27/98 05/11/98 Volatile Organic Compounds 0.5 N.D. N.D. 1.7 1.7 2.5 1.8 - Benzene 0.64 1.3 N.D. ug/L 4.5 - n- Butylbenzene 15 1.8 4.0 N.D. 71 0.51 ug/L - sec- Butylbenzene ug/L 9.7 0.54 1.4 N.D. 2 33 0.42 1.1 - tert- Butylbenzene N.D. 3.7 N.D. ug/L N.D. 0.8 1.2 1 --1 -- 1.2- Dichloroethane N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. 0.5 ug/L - Ethylbenzene 700 140 1.9 N.D. N.D. 1.2 N.D. 12,000 N.D. N.D. 0.63 0.51 0.53 N.D. N.D. 0.69 ug/L - Isopropylbenzene ug/L 12 1.4 1.6 0.95 1 3 N.D. - p-lsopropyltoluene ug/L 6.3 0.51 N.D. N.D. N.D. N.D. N.D. - Methylene chloride (1) 0.5 ug/L 48 N.D. N.D. N.D. N.D. N.D. N.D. - Methyl-tert-butyl-ether/MTBE 60 12 N.D. N.D. 0.62 N.D. N.D. N.D. N.D. N.D. N.D. 0.66 N.D. N.D. N.D. N.D. ug/L - Naphthalene 40 8 27 N.D. N.D. N.D. N.D. 24 N.D. 5.4 ug/L - n-Propylbenzene 19 0.89 2.9 0.57 28 0.48 0.92 ug/L - Toluene N.D. N.D. N.D. N.D. 1.5 1.3 0.5 1.4 2.9 1.7 343 68.6 ug/L N.D. N.D. 0.62 1 - 1,2,4-Trimethylbenzene 2.8 N.D. N.D. 35 1.6 1.4 N.D. 1.3 11 180 2.4 2 1 ug/L 480 96 200 N.D. N.D. N.D. 4,400 N.D. 1.2 N.D. 0.65 N.D. N.D. 1.2 1,3,5-Trimethylbenzene N.D. ug/L N.D. 1.2 N.D. 2.3 - Xylene, (total) 620 124 3.29 62 1.8 N.D. N.D. 6,000 N.D. 1.5 ug/L 15.4 9.0 16.0 216.0 8.1 5.5 6.0 4.8 Total VOCs Detected (2) ug/L 113.4 442.0 10.6 16.0 5.2 22400.0 Gasoline Range Organics ug/L 1,000 94,000 Polynuclear Aromatic Hydrocarbons N.D. 7.6 2.1 3.5 N.D. 1.7 2.8 - Acenaphthene ug/L N.D. N.D. N.D. 5.2 9.4 150 - Acenaphthylene N.D. 5.D. N.D. N.D. N.D. N.D. N.D. N.S. N.D. N.D. N.D. ug/L 0.45 0.21 - Anthracene 3,000 N.D. N.D. 0.31 0.36 52 N.D. N.D. 1.4 0.23 0.52 0.2 ug/L N.D. 33 4.2 39 N.D. N.D. N.D. N.D. N.D. N.D. - Benzo(a) anthracene ug/L N.D. N.D. N.D. - Benzo(a) pyrene 2.4 N.D. N.D. 16 1.5 14 0.71 N.D. 0.65 N.D. N.D. N.D. 0.2 0.02 N.D. ug/L -N.D. 25 12 0.15 0.36 0.48 0.42 N.D. 0.19 - Benzo(b) fluoranthene 0.2 0.02 N.D. N.D. N.D. 1.1 ug/L N.D. N.D. N.D. N.D. 29 N.D. N.D. 0.63 N.D. 0.62 2.9 - Benzo(g,h,i) perylene ug/L N.D. 0.1 0.14 0.13 N.D. N.D. N.D. N.D. N.D. N.D. 10 N.D. 0.22 - Benzo(k) fluoranthene ug/L 0.02 N.D. N.D. N.D. N.D. - Chrysene 0.2 N.D. N.D. 47 4.4 21 24 N.D. ug/L N.D. N.D. - Dibenzo(a,h) anthracene N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D. ug/L 1500 65 150 91 N.D. 20 19 N.D. 28 - Fluoranthene 400 80 N.D. N.D. N.D. 12 ug/L ug/L 280 48 1.9 0.99 1.5 N.D. N.D. 1.3 - Fluorene 400 80 N.D. N.D. 3.7 5.4 14 11 10 5.9 10 - 1-Methylnapthalene 174 N.D. 12 47 1100 63 150 43 ug/L 350 52 N.D. 2 N.D. N.D. 0.93 - 2-Methylnapthalene 178 N.D. N.D. 8.8 15 ug/L 40 N.D. N.D. N.D. N.D. 0.42 N.D. N.D. N.D. N.D. N.D. - Naphthalene 8 ug/L 23 N.D. 3.9 1.4 0.34 0.55 - Phenanthrene N.D. N.D. 3.0 4.3 640 16 60 18 1.8 3.6 ug/L N.D. 0.87 0.54 N.D. 0.4 250 50 N.D. N.D. 110 62 190 1 - Pyrene ug/L N.D. 0.54 N.D. N.D. N.D. N.D. N.D. N.D. N.D. - Indeno (1,2,3-cd) pyrene ug/L --45.0 44.4 Total PAHs Detected 4192.0 255.6 886.0 189.0 19.5 35.4 8.1 ug/L 377.4 0,0 0.0 19.0 87.0 (1) The methylene chloride detections have been attributed to background laboratory contamination. (2) Methyline chloride is not included in the VOC totals. (3) Base data was collected on May 11, 1994. ND Not Detected S.D. Sample Dropped In Laboratory N.S. Well Not Sampled MW-5 was relocated on May 14, 1997. Natural Attenuation Sampling Not Analyzed For Shaded areas indicate levels above the Enforcement Standard (ES)

TABLE 1 (Continued) MONITORING WELL 11

QUARTERLY GROUNDWATER SAMPLING RESULTS MILWAUKEE COUNTY ZOO - FORMER BLIFFERT LUMBER CO. SITE

Analyte	ES	PAL	Units														
	NR140.10	NR140.10		Base (3)	11/14/96	02/26/97	05/14/97	08/26/97	11/18/97	02/26/98	05/11/98	08/20/98	11/17/98	02/24/99	07/27/99*	11/16/99*	02/08/
olatile Organic Compounds		1		1													
Benzene	5	0.5	ug/L	N.D.	1.7	N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N
- n- Butylbenzene			ug/L	N.D.		N.D.	N.D.	N.D.	_	N.D.					N.D.	N.D.	
- sec- Butylbenzene			ug/L	N.D.	_	N.D.	N.D.	N.D.	_	N.D.					N.D.	N.D.	
- tert- Butylbenzene			ug/L	N.D.		N.D.	N.D.	N.D.		N.D.					N.D.	N.D.	
- 1.2- Dichloroethane	5	0.5	ug/L	N.D.		N.D.	N.D.	N.D.		N.D.					N.D.	N.D.	
- Ethylbenzene	700	140	ug/L	N.D.			N.D.	N.S.	N.D.	N.D.	l N						
- Isopropylbenzene			ug/L	N.D.		N.D.	N.D.	N.D.		N.D.					N.D.	N.D.	
- p-Isopropyltoluene			ug/L	N.D.		N.D.	N.D.	N.D.		N.D.					N.D.	N.D.	
- Methylene chloride (1)	- 5	0.5	ug/L	N.D.		N.D.	N.D.	N.D.		N.D.					N.D.	N.D.	
- Methyl-tert-butyl-ether/MTBE	60	12	ug/L	N.D.			N.D.	N.S.	N.D.	N.D.	N						
- Naphthalene	40	- 8	ug/L	N.D.		N.D.	N.D.	N.D.		N.D.					N.D.	N.D.	
- n-Propylbenzene			ug/L	N.D.		N.D.	N.D.	N.D.		N.D.		***			N.D.	N.D.	
- Toluene	343	68.6	ug/L	N.D.			N.D.	N.S.	N.D.	N.D.	0						
- 1,2,4-Trimethylbenzene			ug/L	N.D.			N.D.	N.S.	N.D.	N.D.	N						
- 1.3.5-Trimethylbenzene	480	96	ug/L	N.D.			N.D.	N.S.	N.D.	N.D.	N						
- Xylene, (total)	620	124	ug/L	N.D.			N.D.	N.S.	N.D.	N.D.	N						
otal VOCs Detected (2)			ug/L	0.0	1.7	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0
			<u> </u>													-	
asoline Range Organics			ug/L	N.D.	100.0						_						
Polynuclear Aromatic Hydrocarbons								,					1	T 110	1	L NIP	T
- Acenaphthene			ug/L	N.D.	-	N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N
- Acenaphthylene			ug/L	N.D.		S.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	-
- Anthracene	3,000	600	ug/L	N.D.		N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D. N.D.	N.D.	N
- Benzo(a) anthracene			ug/L	N.D.		N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.			N
- Benzo(a) pyrene	0.2	0.02	ug/L	N.D.		N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	1
- Benzo(b) fluoranthene	0.2	0.02	ug/L	N.D.		N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.		_
- Benzo(g,lı,i) perylene		1	ug/L				N.D.	N.D.	N.D.	N.D.	**		N.D.	N.S.	N.D.	N.D.	1
- Benzo(k) fluoranthene			ug/L	N.D.		N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.		_
- Chrysene	0.2	0.02	ug/L				N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	l l
- Dibenzo(a,h) anthracene			ug/L				N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N
- Fluoranthene	400	80	ug/L	N.D.		N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N
- Fluorene	-100	80	ug/L	N.D.		N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	1
- 1-Methylnapthalene			ug/L	N.D.		N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	_
			ug/L	N.D.		N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	1
- 2-Methylnapthalene	40	8	ug/L	N.D.		N.D.	N.D.	N.D.	N.D.	N.D.			N.D.	N.S.	N.D.	N.D.	N
	10					I NID	N.D.	N.D.	N.D.	N.D.	_		N.D.	N.S.	N.D.	N.D.	0
- 2-Methylnapthalene - Naphthalene - Phenanthrene	10		ug/L	N.D.		N.D.	IV.D.							_		_	
- Naphthalene	250	50	ug/L ug/L	N.D.		N.D.	N.D.	N.D.	N.D.	N.D.	_		N.D.	N.S.	N.D.	N.D.	_
- Naphthalene - Phenanthrene		50			_	1				N.D. N.D.			N.D. N.D.	N.S. N.S.		N.D. N.D.	1

- (2) Methyline chloride is not included in the VOC totals.
- (3) Base data was collected on May 11, 1994.

N.D. Not Detected

Sample Dropped In Laboratory Well Not Sampled S.D.

N.S.

MW-5 was relocated on May 14, 1997.

Natural Attenuation Sampling

Not Analyzed For Shaded areas indicate levels above the Enforcement Standard (ES)

TABLE 1 (Continued)

MONITORING WELL 12 (EW-8)

QUARTERLY GROUNDWATER SAMPLING RESULTS

ORMER BLIFFERT LUMBER CO. SITE

Units MW-12 (EW-8)											
	02/27/98	05/11/98	08/20/98	11/18/98	02/24/99	07/28/99*	11/15/99	02/08/0			
			The same				1	i i			
N.D. N	N.D.	1	1.1	0.88	0.69	1.7	1.8	1.4			
-	5	25	-	-	-	0.83	0.81	-			
-	2	9	-	-	-	0.63	1	-			
-	2	3	-	-	-	N.D.	N.D.	-			
- 1	N.D.	N.D.	-	-	-	N.D.	N.D.	-			
72 N	N.D.	1	0.59	N.D.	N.D.	3.7	N.D.	0.5			
-	2	3	-	-		N.D.	N.D.	-			
- 1	N.D.	3	-	-	-	N.D.	0.61	-			
- I N	N.D.	N.D.	-	-	-	N.D.	N.D.	-			
N.D. N	N.D.	7	5.4	6.2	N.D.	3.7	1.6	1			
- N	N.D.	N.D.	-		-	1.4	3.6	-			
	2	7	-	-	-	0.77	0.53	-			
N.D. N	N.D.	N.D.	0.77	0.86	N.D.	0.35	N.D.	1			
	N.D.	8	1.2	1.2	1.2	N.D.	N.D.	1.1			
	N.D.	N.D.	1.7	N.D.	0.81	N.D.	N.D.	0.72			
	N.D.	4	1.7	N.D.	1	N.D.	N.D.	2			
	13.0	71.0	12.5	9.1	3.7	13.1	10.0	7.7			
	-	-	-		-	-		-			
340	22	74	3.5	3,3	3.1	1.4	1.4	11			
N.D.	N.D.		-	N.D.	N.S.	N.D.	N.D.	N.D.			
. 88 N	N.D.	N.D.	0.44	0.24	0.32	0.48	0.17	2.3			
. 50	6.6	11	0.26	0.34	0.43	N.D.	N.D.	N.D.			
. 24	1.0	12	N.D.	N.D.	N.D.	N.D.	N.D.	2.8			
. 31 (0.88	5.4	N.D.	0.37	0.38	0.36	N.D.	2.2			
25 N	N.D.	9.6	N.D.	N.D.	0.46	N.D.	N.D.	2.1			
. 12	N.D.	6.5	0.11	0.11	0.12	0.11	N.D.	0.64			
. 68	5.4	7.6	27	N.D.	N.D.	N.D.	N.D.	7.9			
N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.			
	25	47	24	N.D.	13	7.6	N.D.	220			
	14	16	1.1	1.6	1.2	N.D.	0.76	6.8			
	33	73	29	18	12	3.7	4.6	16			
	13	N.D.	N.D.	12	1.6	N.D.	N.D.	4			
	N.D.	N.D.	0.25	0.41	0.77	N.D.	N.D.	0.37			
	17	13	7	5	2.9	0.54	0.88	4.8			
								6.4			
								N.D.			
								287.3			
-	-	- N.D.	- N.D. 4.4	- N.D. 4.4 N.D.	- N.D. 4.4 N.D. N.D.	- N.D. 4.4 N.D. N.D. N.D.	- N.D. 4.4 N.D. N.D. N.D. N.D.	- N.D. 4.4 N.D. N.D. N.D. N.D. N.D.			

- KEY:
 (1) The methylene chloride detections have been attributed to background laboratory contamination.
 (2) Methyline chloride is not included in the VCC totals.
 (3) Base data was collected on May 11, 1994.
 N.D. Not Detected

- Sample Dropped In Laboratory Well Not Sampled S.D.
- MW-5 was relocated on May 14, 1997.
- Natural Attenuation Sampling
- Not Analyzed For Shaded areas indicate levels above the Enforcement Standard (ES)



TABLE 10

SUMMARY OF GROUND-WATER LABORATORY ANALYSIS January 29, 1993

MILWAUKEE COUNTY ZOO BLIFFERT SITE REMEDIATION WAUWATOSA, WISCONSIN

Law Engineering, Inc. Project No. 279-2258

Sample Source	DRO (mg/l)	TRPH (mg/l)			
MW-1	0.11	BDL			
MW-2	16	1.1			
MW-3	380	200			

Notes:

MW: Monitoring Well

DRO: Diesel Range Organics by Wisconsin Analytical Protocol

TRPH: Total Recoverable Petroleum Hydrocarbons by Wisconsin Analytical Protoci

mg/l: milligrams per liter

BDL: Below Laboratory Detection Limits as specified in the laboratory data sheet (Appendix C)

Analysis performed by Precision Analytical Laboratory of Milwaukee Wisconsin.

E:\PB0/ECT#\279\2258\TABLE_10



TABLE 11

SUMMARY OF GROUND-WATER LABORATORY ANALYSIS (GRO, LEAD AND DRO) June 8, 1993

MILWAUKEE COUNTY ZOO BLIFFERT SITE REMEDIATION WAUWATOSA, WISCONSIN

Law Engineering, Inc. Project No. 279-2258

Sample Source	GRO (mg/l)	Lead (mg/l)	DRO (mg/l)	VOCs (mg/l)	PAHs (mg/l)
MW-4	NA	BDL	0.87	BDL	BDL
MW-5	BDL	0.041	NA	NA	NA
MW-6	0.23	0.009	NA	NA	NA
MW-7	4.4	BDL	NA	NÁ	NA
MW-8	NA	NA	6.9	NA	NA
MW-9	NA	NA	0.25	NA	NA
MW-10	NA	NA	29	NA	NA
MW-11	BDL	BDL	NA	BDL	BDL
MW-12	NA	NA	38	NA	NA
Trip Blank	NA	NA	NA	BDL	NA
Field Rinsate	NA	NA	NA	BDL	NA

Notes:

MW: Monitoring Well

GRO: Gasoline Range Organics by Wisconsin Analytical Protocol DRO: Diesel Range Organics by Wisconsin Analytical Protocol VOC: Volatile Organic Compounds using EPA Method 8021 PAH: Polymuclear Aromatic Hydrocarbons using EPA Method 8310

mg/l: milligrams per liter NA: Not Analyzed

BDL: Below Laboratory Detection Limits as specified in the laboratory data sheet (Appendix C)

Analysis performed by Precision Analytical Laboratory in Milwaukse Wisconsin.

E:\PEGFECTE\279\2255\TABLE.11

Table 1
Soil Sampling Results Summary - Phase 2.5 Investigation
Milwaukee County - Bliffert Lumber, Milwaukee
TRC Project ID 202083.0000.0000

		Direct Conta	act Pathway							Soil Sa	mple ID an	d Depth (fe	et bgs)							TYPICAL
		Direct Conta	act Fattiway	GP-13-1	GP-13-2	GP-13-3	GP-13-4	GP-13-5	GP-13-6	GP-13-7	GP-13-8	GP-13-9	GP-13-	GP-13-11	GP-13-12	GP-13-13	GP-13-14	GP-13-15	MeOH	LANDFILL ACCEPTANCE
	Groundwater	Non-industrial ^B	Industrial ^c	(2'-4')	(0'-2')	(2'-4')	(0'-2')	(2'-4')	(4'-6')	(4'-6')	(2'-4')	(4'-6')	(4'-6')	(2'-4')	(4'-6')	(6'-8')	(6'-8')	(4'-6')	Blank	CRITERIA
	Pathway ^A	Non-maustrial	ilidustriai							SAMPLES	COLLECT	TED MAY 29	9-30, 2013	i						
PID Readings	-	-	-	13.9	0.5	5.3	10.4	90.3	155.6	1.3	1.4	3.0	1.9	323.6	1.4	1.4	1.0	59.2		-
GRO (mg/kg)	-	-	-	7.7	<2.7	12.0	47.0	9.5	210	<2.3	<2.8	11.0	5.3	860	<2.2	<2.1	6.6	57.0	<2.5	2,000
PVOCs (μg/kg)																				
Benzene	5.12	1,490	7,410	<17	<20	29 ^A	<23	<20	64 ^A	<16	<20	<14	<17	22 J ^A	<16	<15	<18	<19	<18	10,000
Ethylbenzene	1,570	7,470	37,000	18 J	<21	99	<24	50	92	<17	<22	<14	<18	35	<17	<16	<19	<20	<19	-
Methyl tert-butyl ether	27	59,400	293,000	<11	<13	15 J	<15	<13	<14	<11	<14	<9.1	<11	<13	<11	<10	<12	<13	<12	-
Toluene	1,107	818,000	818,000	160	<18	190	<21	<19	66	<15	<19	<13	<16	<18	<15	<14	<17	<18	<17	-
1,2,4-Trimethylbenzene	1,382	89,800	219,000	<14	<16	73	80	110	380	<14	<17	<11	<14	1700	<13	<13	<15	70	<15	-
1,3,5-Trimethylbenzene	1,382	182,000	182,000	47	<16	55	70	63	620	<14	<17	<11	26	<16	<13	<13	25	160	<15	-
Xylenes, Total	3,960	260,000	260,000	36 J	<33	270	57 J	34 J	120	<27	<34	<23	<28	250	<27	<26	<30	<32	<30	-
PAHs (µg/kg)																				
Acenaphthene	-	3,440,000	33,000,000	12 J	<11	<11	26 J	<11	<11	19 J	<12	<11	69	3,200	<11	<11	<11	<12		-
Acenaphthylene	-	-	-	<8.0	<8.6	<8.5	16 J	<8.8	<8.1	8.8 J	<9.2	<8.4	<8.3	1,500	<8.7	<8.5	<8.5	<9.0		-
Anthracene	196,949	17,200,000	100,000,000	37	<8.9	29 J	180	<9.0	<8.3	160	27 J	<8.6	45	<90	39	<8.7	<8.7	25 J		-
Benz(a)anthracene	-	147	2,100	52	59	56	750 ^B	1,000 ^B	1,200 ^B	750 ^B	220 ^B	<7.7	<7.6	120 J	160 ^B	<7.8	<7.8	<8.2		-
Benzo(a)pyrene	470	14.8	211	47 ^B	82 ^B	46 BC	710 ^{BC}	1,200 ^{BC}	1,300 ABC	670 BC	250 BC	<6.7	<6.6	130 J ^B	170 ^B	<6.8	21 J ^B	<7.2		-
Benzo(b)fluoranthene	479	148	2,100	60	160 ^B	75	940 ^{AB}	2,400 ^{ABC}	2,200 ABC	900 ^{AB}	330 ^B	<7.1	12 J	200 J ^B	240 ^B	<7.2	16 J	<7.6		-
Benzo(ghi)perylene	•	-	-	34 J	160	40	700	2,200	2,800	560	230	<12	<12	170 J	160	<12	17 J	<13		-
Benzo(k)fluoranthene	-	148	21,100	22 J	81	24 J	300 B	780 ^B	780 ^B	330 B	140	<8.7	<8.6	<91	110	<8.8	12 J	<9.4		-
Chrysene	144.6	14,800	211,000	52	86	63	640 ^B	1,700 ^A	1,800 ^A	620 ^A	200 ^A	9.3 J	16 J	180 ^A	160 ^A	<8.4	16 J	13 J		-
Dibenz(a,h)anthracene	-	14.8	211	15 J ^B	55 ^B	17 J ^B	250 BC	690 BC	790 ^{BC}	210 ^B	82 ^B	<10	<10	<110	54 ^B	<10	<10	<11		-
Fluoranthene	88,877	2,290,000	22,000,000	79	73	96	1,200	910	1,400	1,300	460	<15	15 J	370 J	300	<15	<15	<16		-
Fluorene	14,829	2,290,000	22,000,000	8.7 J	<8.6	10 J	22 J	<8.7	660	23 J	<9.1	<8.3	130	6,100	12 J	<8.4	<8.4	<8.9		-
Indeno(123-cd)pyrene	-	148	2,110	25 J	110	35 J	560 ^B	1,500 ^B	1,900 ^B	460 ^B	190 ^B	<12	<12	160 J ^B	140	<12	24 J	<13		-
1-Methylnaphthalene	-	15,600	53,100	79	70	130	34 J	380	2,600	<17	<20	<18	63	43,000 ^B	23 J	<18	<18	61		-
2-Methylnaphthalene	-	229,000	2,200,000	65 J	94 J	110 J	<49	290	2,300	<45	<52	<47	<47	11,000	<49	<48	<48	60 J		-
Naphthalene	658	5,150	26,000	32 J	23 J	57	38	210	470	9.4 J	<7.7	<7.0	<7.0	1,600 ^A	21 J	<7.1	<7.1	18 J		-
Phenanthrene	-	-	-	230	49	320	650	200	2,000	480	100	<15	150	7,900	150	<16	19 J	49		
Pyrene	8,700,000	1,720,000	16,500,000	110	71	110	990	1,100	1,300	1,100	400	<13	16 J	640	270	<13	<13	47		-

Notes:

- 1. PID = Photoionization Detector
- 2. GRO = Gasoline Range Organics analyzed using the Wisconsin Modified Method
- 3. PVOCs = Petroleum Volatile Organic Compounds analyzed using the Wisconsin GRO Method
- 4. μg/kg = micrograms per kilogram (ppb)
- 5. = Standard not established.
- 6. --= not analyzed
- 7. PAHs = Polycyclic Aromatic Hydrocarbons analyzed using EPA Method 8270D
- 8. Samples were collected by TRC and analyzed by TestAmerica (WDNR Cert. #999580010)
- 9. NR 720 RCL = Residual Contaminant Level from NR 720, WAC. RCL listed for DRO and GRO are the more stringent of the two NR 720.09 values.
- 10. PAH results were compared to Table 1 Suggested generic residual contaminant levels for PAH compounds in soil in the Wisconsin Department of Natural Resources Soil Residual Contaminant Levels-RCL spreadsheet for use with macro-enabled Excel program [XLSM] (recommended) Updated June 2016
- 11. J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
- 12. BOLD indicates an exceedence (or potential exceedence if J-flagged) of the NR 720 RCL
- 13. A = Result exceeds the Groundwater Pathway RCL
- 14. B = Result exceeds the Non-Industrial Direct Contact RCL
- 15. c = Result exceeds the Industrial Direct Contact RCL

Created by: B. Bergmann 6/18/13 Checked by: T. Stapel 6/20/13 Updated by: M. Brill 1/4/2017

 $P: \label{eq:posterior} P: \$

TABLE 1 SUMMARY OF RECENT SOIL ANALYTICAL DATA (VOCS) MILWAUKEE COUNTY ZOO/FORMER BLIFFERT SITE - MILWAUKEE, WISCONSIN ,3,5-Trimethybenz ,2,4-Trimethybe Ethyl Benzene Fotal Xylenes DRO Boring Depth HUL. 5.5 1,500 2,900 4,100 NE 250 4,910 X 37.5 X C-1 0-4 117 65,400 *^ 783 2,320 1,550 X <25.0 1,600 15,600 1,390 X 205^X C-2 0-4 248 X 1,470^X 117 205 466 <500 130 102 C-3 0-4 <25 0 <25 0 <25 0 <25 0 502 <25 0 <25 0 <25 0 7.67 1,320 4-8 NA NA NA NA NA NA NA NA 5,010 313,000 *^X 39,600 X 59,500^{*^} 16,900 ^X 104,000 X C-4 0-4 202,000 X 63,400* A 3,540 X 3,430 7 50 4-8 NA NA NA NA NA NA NA 316 C-5 0-4 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25 0 <5.64 9 81 C-6 0-4 <25 0 <25 0 <25 0 <25.0 81 0 94.1 51.3 <25 0 130 29.6 C-7 0-4 47.4 X 53.1 35 7 119 27.1 47.1 <25.0 <25.0 <6 33 70.0 44.9 X C-8 0-4 134 37,200 *^ 793 X 421 1,130 2.680 X <25.0 949 125 C-9 0-4 <25.0 <25 0 <25.0 <25 0 <25 0 <25 0 <25.0 <25 0 <6 04 249 C-10 0-4 <25 0 <25.0 <25 0 <25.0 26.9 <25.0 <25.0 <25.0 <6.02 15.3 4-8 NA NA NA NA NA NA NA 9 14 14.3 C-11 0-4 <25.0 <25.0 <25.0 31.8 35.0 <25.0 <25.0 <25.0 25.4 67.4 C-12 0-4 <25.0 58 2 <25 0 <25 0 26.5 <25 0 <25.0 <25.0 <614 7.63 C-13 0-4 <25 0 <25 0 <25.0 <25 0 <25.0 <25 0 <25.0 <25 0 <5 44 13.8 C-14 <25.0 <25 0 <25 0 <25.0 <25.0 <25.0 <25.0 <25.0 NA 5.57 C-15 NA C-16 NA NA NA NΑ NA NA NA NA NA NA C-17 NA C-18 NA NA NA NA NA NA NA NA NA C-19 0-4 <25.0 <25 0 <25 0 <25 0 61.6 <25 0 <25 0 <25.0 <5 85 27.4 5,660 X' C-20 45 8 206 640 1.630 X 602^X <25 0 813 2,210

Notes: NA = Not analysed
All values in micrograms per kilogram
Concentrations in bold exceed RCL
Table includes only compounds detected

April 23, 2001

Direct Contact RCL Industrial (mg/kg)	1 7.07	818	35.4	260	24.1	219	182	282	-	_
RCL Non Industrial (mg/kg)	1.6	818	1.57	260	5.52	219	182	63.8	-	-
Groundwater Pathway (mg/kg)	.0051	1.11	1.57	3.96	.66	1.38 (C	ombined)	.027	-	-

^{*=} indicates an exceedence of Direct Contact RCL Industrial

x= indicates an exceedence of Groundwater Pathway

Updated 5/**2**/17 by M. Brill A. 2. 2. Soil Analytical Results Table(s)

^{^=} indicates an exceedence of Non Industrial

TABLE 1 SUMMARY OF RECENT SOIL ANALYTICAL DATA (PAHs) MILWAUKEE COUNTY ZOO/FORMER BLIFFERT SITE - MILWAUKEE, WISCONSIN 2-Methyl Naphthale I-Methyl Naphthal Benzo (a) pyrene Vaphthalene Boring Depth RCL 700 48,000 23,000 20,000 2,700 C-1 0-4 NA NA NA NA NA C-2 0-4 NA NA NA NA NA C-3 0-4 <229 < 5.73 <115 <115 <115 4-8 NA NA NA NA NA 1,030 C-4 0-4 288 <5 67 312 1,280 4-8 NA NA NA NA NA C-5 0-4 <225 < 5.64 <113 <113 <113 C-6 0-4 NA NA NA NA NA C-7 NA NA NA NA 0-4 NA C-8 0-4 NA NA NA NA NA C-9 0-4 <242 6 58 <121 <121 <121 C-10 0-4 NA NA NA NA NA NA NA 4-8 NA NA NA C-11 0-4 NA NA NA NA NA C-12 0-4 NA NA NA NA NA NA NA C-13 0-4 NA NA NA C-14 4-8 NA NA NA NA NA C-15 NA NA NA NA NA NA NA NA NA C-16 NA C-17 NA NA NA NA NA C-18 NA NA NA NA NA C-19 0-4 NA NA NA NA NA

Notes.

C-20

All values in micrograms per kılogram

Table includes only compounds detected

0-4

April 23, 2001

NA

NA

RCL = WDNR's "Soil Cleanup Levels for Polycylcic Aromatic Hydrocarbons (PAHs) Interim Guidance"

NA

NA

NA = Not Analyzed

Direct Contact RCL Industrial (mg/kg) RCL Non Industrial (mg/kg) Groundwater Pathway (mg/kg)	45,200 3,590	.115 2.11 .47	72.7 17.6	3010.0 239	24.1 5.52 .66
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NA



TABLE 4

SUMMARY OF SOIL LABORATORY ANALYSIS (GRO, LEAD and DRO) June 3 and 4, 1993

MILWAUKEE COUNTY ZOO **BLIFFERT SITE REMEDIATION** WAUWATOSA, WISCONSIN

Law Engineering, Inc. Project No. 279-2258

Sample Source	Sampling Interval (Feet BGL)	GRO (mg/kg)	Lead (mg/kg)	DRO (mg/kg)
MW-4	1.0 to 2.5	NA	NA	140
MW-5	3.5 to 5.0	9.8	6.6	NA
MW-6	7/- tp 9/-	6.1	2.8	NA
MW-7	6.0 to 8.0	560	8.0	NA ·
MW-8	3.5 to 5.5	NA	NA	570
MW-9	3.5 to 5.0	NA	NA	10
MW-10	3.5 to 5.0	NA	NA	15,000
MW-11	3.5 to 5.5	BDL	4.2	NA
MW-12	3.5 to 5.0	NA	NA	30,000
MW-12 (Duplicate)	3.5 to 5.0	NA	NA	39,000
	L Industrial (mg/kg)	-	800	<u>-</u>
RCL Non Industri Groundwater Path	al (mg/kg) way (mg/kg)	-	400 27	-

GRO: Gasolins Range Organics by Wisconsin Analytical Protocol DRO: Diesel Range Organics by Wisconsin Analytical Protocol

NA: Not Analyzed mg/kg: milligrams/kilogram BGL: Below Ground Level

BDL: Beloe laboratory detection limits as specified in the Laboratory Data Sheet (Appendix C).

Analysis performed by Precision Analytical Laboratory in Milwaukee Wisconsin.

E: PROFECTE 279 225 FTABLE 4

A. 2. 4. Soil Analytical Results Table(s)



SUMMARY OF SOIL LABORATORY ANALYSIS (VOCs AND PAHs) June 3 and 4, 1993

MILWAUKEE COUNTY ZOO BLIFFERT SITE REMEDIATION WAUWATOSA, WISCONSIN

Law Engineering, Inc. Project No. 279-2258

				(ug/kg)		
Parameter Detected	Groundwater Pathway (mg/kg)	MW-10 (ug/kg) -(mg/kg)	MW-4 (ug/kg) (mg/kg)		Direct Cont Industrial	tact RCLs (mg/kg Non-Industrial
PNAs			20 311			2.500
Acenaphtena	-	BDL	BDL	BDL	45,200	3,590
Acenapthylene	-	BDL	BDL	BDL	-	# -
Anthracene	197	20,000	BDL	BDL	100,000	17,900
Benzo(a)anthracene	-	J 1,700	J 280	BDL	20.8	-
Benzo(b)fluoranthens	.48	J 1,600*	J 320	BDL	1.76	1.15
Benzo(k)fluoranthens	-	J 700	J 140	BDL	211	11.5
Benzo(g,h,i)perylene	-	BDL	J 170	BDL	-	-
Benzo(a)pyrene	. 47	BDL	J 260*	BDL	2.11	.115
Chrysens	.145	J 1,600 *	J 270 *	BDL	2,110	115
Dibenz(a,h)anthracene	-	BDL	BDL	BDL	2.11	.115
Fluoranthene	88.9	6,500	J 490	BDL	30,100	2,390
Fluorens	14.9	BDL	BDL	BDL	30,100	2,390
Indeno(1,2,3-cd)pyrene	-	BDL	J 180	BDL	21.1	1.15
Naphthalene	.66	14,000 *	BDL	BDL	24.1	5.52
Phenanthrene	-	18,000	J 270	BDL	-	-
Pyrene	54.55	J 3,500	J 480	BDL	22,600	1,790
VOCs						
n-Butylbenzene	-	1,400	BDL	BDL	108	108
sec-Butyibenzene	-	1,700	BDL	BDL	145	145
Ethylbenzene	1.57	940 .	BDL	BDL	35.4	8.02
Isopropyibenzene	-	940	BDL	BDL	-	-
P-Isopropyltoluene	-	2,600	BDL	BDL	162	162*
Naphthalene	.66	8,300	BDL	BDL	24.1	5.52
n-Propylbenzene	-	2,100	BDL	BDL	264	264
1,2,4-Trimethylbenzene	.408	8,400	BDL	BDL	219	219
1,3,5-Trimethylbenzene	-	940	BDL	BDL	182	182
m/p-xylene	3.96	J 550	BDL	BDL	m 388	388
and the special of the first and the special s					p 390	390
Methylene chloride	.0026	BDL	(14)19	(19)42	1,150	61.8

Notes:

E: PROFECTS\279\2258\TABLE_S

Analytical results reflected in micrograms per kilogram (mg/kg) ug/kg)

VOCs: Volatile Organic Compounds using Method \$260

PAHs: Polymuclear Aromatic Hydrocarbons using Method 8310

BDL: Below Laboratory Detection Limits as specified in the laboratory data sheet (Appendix C)

J: Analyte positively identified below the quantification limit

1 microgram (ug) = .001 milligram (mg)

Updated 5/1/17 by M. Brill

^{():} Analyse found in the associated method blank. The value in parentheses is the blank value with the dilution factor taken into account.

^{* =} indicates an exceedence (or potential exceedence if J-flagged) of the NR 720 RCL [could not bold data as it is already]

Analysis performed by Precision Analytical Laboratory of Milwaukes, Wisconsia



SUMMARY OF SOIL LABORATORY ANALYSIS (B-13 AND B-14 — TRPH AND VOCs) June 16, 1993

MILWAUKEE COUNTY ZOO BLIFFERT SITE REMEDIATION WAUWTOSA, WISCONSIN

Law Engineering, Inc. Project No. 279-2258

	Sample Source	TRPH (mg/kg)	VOCs-Parameter detected Methylene Chloride (mg/kg)
	B-13	BDL	33 *
AL-24400 TX	B-14	BDL	11*
	Direct Contact RCL Industrial (mg/kg) -	1150
	RCL Non Industrial (mg/kg)	-	61.8
Votes:	Groundwater Pathway (mg/kg	-	.0026

TRPH: Total Recoverable Petroleum Hydrocarbons

VOCs: Volatile Organic Compounds mg/kg: micrograms per kilogram

BDL: Below Laboratory Detection Limits as specified in the laboratory data sheet (Appendix C)

Analysis performed by Precision Analytical Laboratory of Milwaukee, Wisconsin

* = indicates an exceedence (or potential exceedence if J-flagged) of the NR 720 RCL [could not bold data as it is already]



TABLE 8

ANALYTICAL RESULTS OF GEOPROBE INVESTIGATION — SOIL SAMPLING April 13 and 14, 1993

MILWAUKEE COUNTY ZOO **BLIFFERT SITE REMEDIATION** WAUWTOSA, WISCONSIN

Law Engineering, Inc. Project No. 279-2258

Sample Source	Sample Depth (Feet)	Benzene (mg/kg)	Toluens (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVH (mg/kg)
GP-1	7 to 9	4.194 *	12.382 *	3.871*	16.058*	207.914
GP-2	7 to 9	BDL	BDL	BDL	BDL	0.039
GP-3	5 to 7	18.041 *	61.086 *	14.103 *	67.378 *	556.29 5
GP-4	5 to 7	24.541*	BDL	0.024	BDL	24.993
GP-5	5 to 7	BDL	BDL	BDL	BDL	< 0.015
GP-6	5 to 7	BDL	BDL	BDL	BDL	< 0.015
GP-7	6 to 8	BDL	BDL	BDL	BDL	0.024
GP-8	6 to 8	BDL	0.057	0.684	1.834	34.291
GP-9	6 to 8	BDL	BDL	0.043	0.284	3.947.
GP-10	6 to 8	BDL	BDL	BDL	BDL	0.026
GP-11	6 to 8	BDL	BDL	BDL	BDL	< 0.015
GP-12	6 to 8	BDL	BDL	BDL	BDL	< 0.015
GP-13	6 to 8	BDL	BDL	0.063	0.386	5.699
RCL Non Indu	t RCL Industrial(mg/k nstrial(mg/kg) tter Pathway (mg/kg)	g) 7.07 1.6 .0051	818 818 1.11	35.4 1.57 1.57	260 260 3.96	- - -

GP: Geoprobe location

mg/kg: milligrams per kilogram **BDL: Below Detection Limits** TVH: Total Volatile Hydrocarbons

Analysis performed on-site by Geo Trace Inc. of Mt. Vernon, Illinois.

* = indicates an exceedence (or potential exceedence if J-flagged) of the NR 720 RCL [could not bold data as it is already]



TABLE 3

SUMMARY OF SOIL LABORATORY ANALYSIS January 25, 26 and February 1, 1993

MILWAUKEE COUNTY ZOO BLIFFERT SITE REMEDIATION WAUWATOSA, WISCONSIN

Law Engineering, Inc. Project No. 279-2258

Sample Location	Sample Interval (Feet BGL)	DRO (mg/kg)	TRPH (mg/kg)	GRO (mg/kg)
B-1 (MW-1)	6.0 to 7.5	BDL	BDL	NA
B-2	7.0 to 8.5	6,100	350	NA
B-3 (MW-3)	6.0 to 7.5	9,000	15,000	NA
B-4	11.0 to 12.5	15	41	NA
B-5 (MW-2)	6.0 to 10.0	25,000	14,000	NA
B-6	6.0 to 7.5	NA	NA	10,000
B-7	6.0 to 7.5	NA	NA	4,200
B-8	6.0 to 7.5	NA	NA	1,500
B-9	6.0 to 7.5	36,900	30,000	NA
B-10	6.0 to 7.5	27,000	13,000	NA
B-11	2.5 to 5.0	11,000	3,500	NA
B-12	3.5 to 5.0	4,400	5,700	NA

Notes:

Analytical results reflected in milligrams per kilogram (equivalent to parts per million)

GRO: Gasoline Range Organics by Wisconsin Analytical Protocol DRO: Diesel Range Organics by Wisconsin Analytical Protocol

TRPH: Total Recoverable Petroleum Hydrocarbons by Wisconsin Analytica Protocol

NA: Not Analyzed

BDL: Below Detection Limit as specified in the attached Laboratory Data Sheet (Appendix C).

B: Soil Boring

MW: Monitoring Well BGL: Below Ground Level

Analysis performed by Precision Analytical Laboratory of Milwaukse Wisconsin.

H:\PROFECTE\Z79\2258\TABLE_3

Table 1
Soil Sampling Results Summary - Phase 2.5 Investigation
Milwaukee County - Bliffert Lumber, Milwaukee
TRC Project ID 202083.0000.0000

		Direct Conta	act Pathway							Soil Sa	mple ID an	d Depth (fe	et bgs)							TYPICAL
		Direct Conta	act ratilway	GP-13-1	GP-13-2	GP-13-3	GP-13-4	GP-13-5	GP-13-6	GP-13-7	GP-13-8	GP-13-9	GP-13-	GP-13-11	GP-13-12	GP-13-13	GP-13-14	GP-13-15	MeOH	LANDFILL ACCEPTANCE
	Groundwater	Non-industrial ^B	Industrial ^c	(2'-4')	(0'-2')	(2'-4')	(0'-2')	(2'-4')	(4'-6')	(4'-6')	(2'-4')	(4'-6')	(4'-6')	(2'-4')	(4'-6')	(6'-8')	(6'-8')	(4'-6')	Blank	CRITERIA
	Pathway ^A	Non-industrial	industrial							SAMPLES	COLLECT	ED MAY 29	-30, 2013							
PID Readings	1	-	-	13.9	0.5	5.3	10.4	90.3	155.6	1.3	1.4	3.0	1.9	323.6	1.4	1.4	1.0	59.2		-
GRO (mg/kg)	-	-	-	7.7	<2.7	12.0	47.0	9.5	210	<2.3	<2.8	11.0	5.3	860	<2.2	<2.1	6.6	57.0	<2.5	2,000
PVOCs (μg/kg)																				
Benzene	5.12	1,490	7,410	<17	<20	29 ^A	<23	<20	64 ^A	<16	<20	<14	<17	22 J ^A	<16	<15	<18	<19	<18	10,000
Ethylbenzene	1,570	7,470	37,000	18 J	<21	99	<24	50	92	<17	<22	<14	<18	35	<17	<16	<19	<20	<19	-
Methyl tert-butyl ether	27	59,400	260,000	<11	<13	15 J	<15	<13	<14	<11	<14	<9.1	<11	<13	<11	<10	<12	<13	<12	-
Toluene	1,107	818,000	818,000	160	<18	190	<21	<19	66	<15	<19	<13	<16	<18	<15	<14	<17	<18	<17	-
1,2,4-Trimethylbenzene	1,382	89,800	219,000	<14	<16	73	80	110	380	<14	<17	<11	<14	1700	<13	<13	<15	70	<15	-
1,3,5-Trimethylbenzene	1,382	182,000	182,000	47	<16	55	70	63	620	<14	<17	<11	26	<16	<13	<13	25	160	<15	-
Xylenes, Total	3,960	260,000	260,000	36 J	<33	270	57 J	34 J	120	<27	<34	<23	<28	250	<27	<26	<30	<32	<30	-
PAHs (µg/kg)																				
Acenaphthene	-	3,440,000	33,000,000	12 J	<11	<11	26 J	<11	<11	19 J	<12	<11	69	3,200	<11	<11	<11	<12		-
Acenaphthylene	-	-	-	<8.0	<8.6	<8.5	16 J	<8.8	<8.1	8.8 J	<9.2	<8.4	<8.3	1,500	<8.7	<8.5	<8.5	<9.0		-
Anthracene	196,949	17,200,000	100,000,000	37	<8.9	29 J	180	<9.0	<8.3	160	27 J	<8.6	45	<90	39	<8.7	<8.7	25 J		-
Benz(a)anthracene	-	147	2,100	52	59	56	750 ^B	1,000 ^B	1,200 ^B	750 ^B	220 ^B	<7.7	<7.6	120 J	160 ^B	<7.8	<7.8	<8.2		-
Benzo(a)pyrene	470	15	211	47 ^B	82 ^B	46 ^{BC}	710 ^{BC}	1,200 ^{BC}	1,300 ABC	670 BC	250 BC	<6.7	<6.6	130 J ^B	170 ^B	<6.8	21 J ^B	<7.2		-
Benzo(b)fluoranthene	479	148	2,110	60	160 ^B	75	940 ^{AB}	2,400 ^{ABC}	2,200 ABC	900 AB	330 ^B	<7.1	12 J	200 J ^B	240 ^B	<7.2	16 J	<7.6		-
Benzo(ghi)perylene	Ī	-	-	34 J	160	40	700	2,200	2,800	560	230	<12	<12	170 J	160	<12	17 J	<13		-
Benzo(k)fluoranthene	-	1,480	21,100	22 J	81	24 J	300 B	780 ^B	780 ^B	330 B	140	<8.7	<8.6	<91	110	<8.8	12 J	<9.4		-
Chrysene	144.6	14,800	211,000	52	86	63	640 ^B	1,700 ^A	1,800 ^A	620 ^A	200 ^A	9.3 J	16 J	180 ^A	160 ^A	<8.4	16 J	13 J		-
Dibenz(a,h)anthracene		15	211	15 J ^B	55 ^B	17 J ^B	250 BC	690 BC	790 ^{BC}	210 ^B	82 ^B	<10	<10	<110	54 ^B	<10	<10	<11		-
Fluoranthene	88,877	2,290,000	22,000,000	79	73	96	1,200	910	1,400	1,300	460	<15	15 J	370 J	300	<15	<15	<16		-
Fluorene	14,829	2,290,000	22,000,000	8.7 J	<8.6	10 J	22 J	<8.7	660	23 J	<9.1	<8.3	130	6,100	12 J	<8.4	<8.4	<8.9		-
Indeno(123-cd)pyrene	-	148	2,110	25 J	110	35 J	560 ^B	1,500 ^B	1,900 ^B	460 ^B	190 ^B	<12	<12	160 J ^B	140	<12	24 J	<13		-
1-Methylnaphthalene	-	15,600	53,100	79	70	130	34 J	380	2,600	<17	<20	<18	63	43,000 ^B	23 J	<18	<18	61		-
2-Methylnaphthalene	-	229,000	2,200,000	65 J	94 J	110 J	<49	290	2,300	<45	<52	<47	<47	11,000	<49	<48	<48	60 J		-
Naphthalene	658	5,150	26,000	32 J	23 J	57	38	210	470	9.4 J	<7.7	<7.0	<7.0	1,600 ^A	21 J	<7.1	<7.1	18 J		-
Phenanthrene	-	-	-	230	49	320	650	200	2,000	480	100	<15	150	7,900	150	<16	19 J	49		
Pyrene	54,545	1,720,000	16,500,000	110	71	110	990	1,100	1,300	1,100	400	<13	16 J	640	270	<13	<13	47		-

Notes:

- 1. PID = Photoionization Detector
- 2. GRO = Gasoline Range Organics analyzed using the Wisconsin Modified Method
- 3. PVOCs = Petroleum Volatile Organic Compounds analyzed using the Wisconsin GRO Method
- 4. μg/kg = micrograms per kilogram (ppb)
- 5. = Standard not established.
- 6. --= not analyzed
- 7. PAHs = Polycyclic Aromatic Hydrocarbons analyzed using EPA Method 8270D
- 8. Samples were collected by TRC and analyzed by TestAmerica (WDNR Cert. #999580010)
- 9. NR 720 RCL = Residual Contaminant Level from NR 720, WAC. RCL listed for DRO and GRO are the more stringent of the two NR 720.09 values.
- 10. PAH results were compared to Table 1 Suggested generic residual contaminant levels for PAH compounds in soil in the Wisconsin Department of Natural Resources Soil Residual Contaminant Levels-RCL spreadsheet for use with macro-enabled Excel program [XLSM] (recommended) Updated June 2016
- 11. J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
- 12. BOLD indicates an exceedence (or potential exceedence if J-flagged) of the NR 720 RCL
- 13. A = Result exceeds the Groundwater Pathway RCL
- 14. B = Result exceeds the Non-Industrial Direct Contact RCL
- 15. c = Result exceeds the Industrial Direct Contact RCL

Created by: B. Bergmann 6/18/13 Checked by: T. Stapel 6/20/13 Updated by: M. Brill 1/4/2017

 $P:\label{eq:problem} P:\label{eq:problem} P:\labe$

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.

Zoo-Bliffert Case Closure – GIS Registry

There are no structures on the site, thus, vapor analytics were not assessed.

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.

Zoo-Bliffert Case Closure – GIS Registry

Other Media of Concern is/are not needed for Zoo-Bliffert Case Closure – GIS Registry. Neither sediment nor surface water nor other media was present.

Table 3
Groundwater Elevations - Phase 2.5 Investigation
Milwaukee County - Bliffert Lumber, Milwaukee
TRC Project ID 202083.0000.0000

				June 27, 2013
	Ground Surface	Top of PVC	Top of PVC	Groundwater
Well I.D.	Elevation	Elevation	to Water	Elevation
MW-1	Well coul	ld not be found. Buried under so	oil and brush pile. Replaced by	GP-13-8.
MW-2R	Well could not be found. Accord	rding to old RMT reports, the we system in 1996. No aban		g installation of the remediation
MW-3	773.16	773.15	3.52	769.63
MW-4	Well co	uld not be found. Buried during	construction of RR tunnel in Jur	ne 2013.
MW-5	W	/ell could not be found. Buried (under soil. Replaced by GP-13-	1.
MW-6	775.50	Flush mount cover	and well cap missing. Well is fi	lled with dirt/gravel.
MW-7	774.02	773.57	1.64	771.93
MW-8	774.10	773.51	0.65	772.86
MW-9		Well could not be fou	nd - buried under soil.	
MW-10	Well could not be found. Accord	rding to old RMT reports, the we system in 1996. No aban		g installation of the remediation
MW-11	771.03	770.83	0.77	770.06
MW-12	Well could not be found. Accord	rding to old RMT reports, the we system in 1996. No aban		g installation of the remediation
GP-13-1	771.75	773.61	3.78	769.83
GP-13-2	770.89	772.19	2.70	769.49
GP-13-3	773.05	774.90	5.19	769.71
GP-13-5	Temporary w	ell could not be found. Buried d	uring construction of RR tunnel	in June 2013.
GP-13-6	772.60	772.60	2.96	769.64
GP-13-8	773.33	774.10	NM*	NM*
GP-13-9	774.51	775.67	5.37	770.30
GP-13-10	773.75	773.89	NM*	NM*
GP-13-11	774.82	776.12	4.41	771.71
GP-13-13	784.36	785.71	14.11	771.60
GP-13-14	778.20	780.32	5.46	774.86

Notes:

- 1. All elevations are referenced to a benchmark (772.05 feet above mean sea level) at the base of the billboard pole near GP-13-2.
- 2. NM = Not measured. See notes below.
- 3. MW-3 was half filled with dirt/gravel. It was not sampled on June 3, 2013 due to lack of water; however, on June 27, 2013 it was possible to obtain a water level.
- 4. * For GP-13-8 and GP-13-10, the temporary well PVC was damaged (kinked) during construction of the RR tunnel in June 2013. The water level indicator could not get past the kinks on June 27, 2013.

GROUNDWATER LEVEL DATA

MILWAUKEE COUNTY ZOO - FORMER BLIFFERT LUMBER CO. SITE

								Monitoring	Well Water Level Dat	ta ¹							MW-6	
					MULTIN (ETH C)			MW-3			MW-4			MW-5 (EW-1)		Depth to Water	Groundwater	Depth to Bottom
	Depth to Water	MW-1 Groundwater	Depth to Bottom	Depth to Water	MW-2R (EW-5) Groundwater Elevation	Depth to Bottom (feet)	Depth to Water (feet)	Groundwater Elevation	Depth to Bottom (feet)	Depth to Water (feet)	Groundwater Elevation	Depth to Bottom (feet)	Depth to Water (feet)	Groundwater Elevation	Depth to Bottom (feet)	(feet)	Elevation	(feet)
Date	(feet)	Elevation	(feet)	(feet)		(Icei)	11				98.42			99.62			104.05	,
ence Elevation, TPVC		102.78			104.12			101.90		2.49	95.93		0.66	98.96		5.92	98.13	
6/8/1993	1.59	101.19					3.82	98.08		3.32	95.10		1.09	98.53		6.98	97.07	
5/11/1994	3.87	98.91					5.39	96.51	12.75	4.23	94.19	12.79	4.38	95.24	12.68	7.68	96.37	15.17
5/31/1994	4.71	98.07	11.71	7.32	96.80	13.62	5.74	96.16		2.29	96.13	12.81		<u></u>		8.15	95.90	15.19
6/20/1996		100.71	11.72				3.91 (film)	97.99	12.40		J0.15	12.01						
7/26/1996										 5.00	93.16				**	11.04	93.01	
11/14/1996		95.00					7.98 (film)	93.92		5.26	94.33	12.52				9.66	94.39	14.91
2/26/1997	3.15	99.63	11.46				7.02	94.88	12.17	4.09	94.76	12.52	4.28	95.34		9.78	94.27	
4/24/1997	3.76	99.02					6.99 (0.20)	94.91		3.66	95.54	12.54	4.20	**		7.33	96.72	14.90
5/14/1997		99.61	11.46	6.52	97.60	14.11	6.69	95.21	12.18	2.88		12.54	3.30	96.32	12.45	8.59	95.46	14.92
8/26/1997	5.58	97.20	11.45				5.39	96.51	12.21	3.05	95.37	12.40	6.98	92.64	12.69	11.15	92.90	15.10
		94.47	11.60				8.80 (film)	93.10		5.65	92.77		2.43	97.19		9.81	94.24	
11/17/1997		100.54	••				4.67 (film)	97.23		2.06	96.36	**	2.43	. ,,,,,,		7.84	96.21	
2/26/1998		100.54					5.61 (film)	96.29					 	94.44		8.98	95.07	
5/11/1998		96.38	»				6.71	95.19		4.30	94.12		5.18	96.19	12.66	8.04	96.01	15.04
7/16/1998		97.36	11.67				5.49 (film)	96.41	12.41	2.82	95.60	12.76	3.43	95.23	12.66	8.56	95.49	15.04
8/20/1998		96.39	11.67		**		5.59	96.31	12.41	3.77	94.65	12.76	4.39	95.25 97.02	12.66	7.02	97.03	15.04
11/18/1998		99.76	11.67				4.75	97.15	12.41	1.93	96.49	12.76	2.60	97.79	12.66	6.95	97.10	15.04
2/24/1999			11.67				4.32	97.58	12.41	1.70	96.72	12.76	1.83		12.66	9.21	94.84	15.04
7/26/1999		99.00	11.67				6.15 (film)	95.75	12.41	4.21	94.21	12.76	4.30	95.32	12.60	10.15	93.90	15.05
11/16/1999		95.23					7.11	94.79	12.03	5.12	93.30	12.67	5.28	94.34	12.00	8.60	95.45	15.05
2/8/2000		94.78	11.58				5.11	96.79	12.03	2.32	96.10	12.67				0.00	70.30	20.00
8/14/2002	5.69	97.09	11.58											D 6747 44			MW-12 (EW-8)	

1								MW-9			MW-10 (EW-7)			MW-11			MW-12 (EW-8)	Depth to Botton
		MW-7			MW-8	T = 0 - 0 - 0	Depth to Water	Groundwaler	Depth to Bottom	Depth to Water	Groundwater	Depth to Bottom	Depth to Water	Groundwater	Depth to Bottom	Depth to Water (feet)	Groundwater Elevation	(feet)
	Depth to Water	Groundwater	Depth to Bottom	Depth to Water	Groundwater Elevation	Depth to Bottom (feet)	(feet)	Elevation	(feet)	(feet)	Elevation	(feet)	(feet)	Elevation	(feet)	(teet)		1 (100)
Date	(feet)	Elevation	(feet)	(feet)		(rect)	(141)	101.24		1	100.74			99.50			99.70	
ence Elevation, TPVC		102.51			102.32		0.44	98.78		2.65	98.09		1.35	98.15		1.67	98.03	
6/8/199		94.87		3.08	99.24		2.46	96.52		4.27	96.47		3.83	95.67		3.23	96.47	44.557
5/11/199	4 7.55	94.96		5.72	96.60		4.72	96.19	12.21	4.58	96.16	11.14	5.14	94.36	12.60	3.52	96.18	11.77
5/31/199	8.12	94.39	12.59	6.49	95.83	12.81	5.05	98.77	12.21				1.48	98.02	12.67			
6/20/199	6 4.40	98.11	12.72	5.43	96.89	12.81	2.47		12.21	•-						••		
7/26/199							0.44	92.80					6.56	92.94		-		
11/14/199	6 10.76	91.75		9.04	93.28		8.44						5.02	94.48	12.53			
2/26/199	9.31	93.20	12.42	8.47	93.85	12.54		95.36					4.81	94.69				,
4/24/199		93.38		9.38	92.94		5.88	96.09	11.92	4.10	96.64	14.11	3.96	95.54	12.55	3.72	95.98	14.21
5/14/199		93.90	12.43	7.82	94.50	12.55	5.15	96.73	11.93				3.44	96.06	12.55			
8/26/199		94.20	12.45	5.33	96.99	12.54	4.51	92.28	12.25			**	6.85	92.65	12.81	-		
11/17/199		90.95	12.65	9.55	92.77	12.80	8.96	92.28 97.38	12.25	**			2.32	97.18				
2/26/199		100.05	april a	6.00	96.32		3.86								*-			
5/11/199		99.76		4.83	97.49			94.01					4.88	94.62				
7/16/199		93.83		6.96	95.36		7.23		12.16				4.02	95.48	12.75			
8/20/199		94.82	12.67	6.35	95.97	12.77	4.76	96.48	12.16				3.41	96.09	12.75			
11/18/199		96.32	12.67	7.26	95.06	12.77	5.99	95.25	12.16				2.94	96.56	12.75			
2/24/199		99.91	12.67	5.84	96.48	12.77	3.97	97.27	12.16				2.47	97.03	12.75			**
7/26/199		96.80	12.67	4.40	97.92	12.77	3.66	97.58	12.16				5.34	94.16	12.75			
11/16/199		93.73	12.67	7.27	95.05	12.77	5.64	95.60	12.10				6.62	92.88	12.70			
2/8/200		92.66	12.58	8.24	94.08	12.68	7.11	94.13	12.10							**		
8/14/20		98.20	12.58	4.92	97.40	12.68	3.68	97.56	12.1U				and the second s					

The treatment system began operation on 8/20/96. Bolded values indicate depth to bottom of spear.

Well not present at time of water level measurements.

Indicates product detected in well and thickness in feet, if product level measurement was made while collecting water level information.

Data not collected

A.6.2.Water Level Elevations

GROUNDWATER LEVEL DATA

MILWAUKEE COUNTY ZOO - FORMER BLIFFERT LUMBER CO. SITE

Serve .								Monitoring	Well Water Level Da	ıta							EMI C	
		EW-1			EW-2			EW-3			EW-4			EW-5			EW-6	Depth to Bottom
	Depth to Water (feet)	Groundwater Elevation	Depth to Bottom	Depth to Water (feet)	Groundwater Elevation	Depth to Bottom (feet) ^{1,2}	Depth to Water (feet)	Groundwater Elevation	Depth to Bottom (feet)12	Depth to Water (feet)	Groundwater Elevation	Depth to Bottom (feet) ^{1,2}	Depth to Water (feet)	Groundwater Elevation	Depth to Bottom (feet) ^{1,2}	Depth to Water (feet)	Groundwater Elevation	(feet) ^{1,2}
Date	(Icci)	<u></u>	1	(4-1-7)			<u> </u>	101.72			101.96			102.02	1		100.42	
ace Elevation, TPVC		100.81			101.39	N/D	NID	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
6/8/1993		NP	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	· NP	NP	NP	NP
5/11/1994		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
5/31/1994		NP	NP	NP	NP	NP	NP	NP		4.11	97.85	14.36	4.09 (0.22)	97.93	14.37	2.41	98.01	13.06
6/20/1996	2.75	98.06	14.34	3.45 (film)	97.94	14.36	4.44	97.28	14.35	4.85	97.11	5.35	5.49	96.53	5.99	4.69	95.73	5.19
7/26/1996	6.62	94.19	7.00	6.24	95.15	6.74	6.19	95.53	6.69		97.11	5.33	3.47	, 5,000				
11/14/1996													7.10	94.92	14.14			
2/26/1997	7.53	93.28	12.02								01.77	3.58	7.09 (0.13)	94.93	3.54	5.23	95.19	3.58
4/24/1997	6.14	94.67	11.00	6.19	95.20	3.54	7.52 (0.09)	94.20	8.00	7.19	94.77		6.52	95.50	14.11			
5/14/1997						·			***		- -			95.92	14.09			
8/26/1997													6.10	95.08	11.07			
11/17/1997				•									6.94 (film)					
2/27/1998										. 	**		5.80 (film)	96.22				
5/11/1998											~~		4.02	98.00		5.70	94.72	
7/16/1998			a										5.42	96.60	14.36	3.98	96.44	13.09
8/20/1998		95.33	17.09	5.56	95.83	10.85	5.71	96.01	8.80	6.05	95.91	7.93	5.31	96.71		5.99	94.43	13.09
11/18/1998		94.92	17.09	5.50	95.89	10.85	7.40	94.32	8.80	5.69	96.27	7.93	7.19	94.83	14.36	3.27	97.15	13.09
2/24/1999		96.88	17.09	4.23	97.16	10.85	5.38	96.34	8.80	4.08	97.88	7.93	4.64	97.38	14.36		97.13	13.09
7/26/1999		96.93	17.09	4.01	97.38	10.85	4.49	97.23	8.80	3.56	98.40	7.93	3.40	98.62	14.36	3.03		13.09
The state of the s		94.01	17.09	5.85	95.54	10.85	5.63	96.09	8.80	6.00	95.96	7.93	5.54 (film)	96.48	14.36	4.88	95.54	li li
11/15/1999		74.01	17.07	5.05									6.86	95.16	14.22			12.00
2/8/2000		94.73	17.09	4.60	96.79	10.85	7.30 (1.97)	94.42	8.80	4.94 (0.14)	97.02	7.93	4.66	97.36	14.22	3.54	96.88	13.09
8/14/2002	6.08	74./3	17.09	4.00	70.77	10.05	7.00 (2.57)		The second second second second									i

	r		EW-7		EW-8			EW-9			MH-1		
å Lles	Date	Depth to Water (feet)	Groundwater Elevation	Depth to Bottom (feet) ^{1,2}	Depth to Water (feet)	Groundwater Elevation	Depth to Bottom (feet) ^{1,2}	Depth to Water (feet)	Groundwater Elevation	Depth to Bottom (feet) ^{1,2}	Depth to Water (feet)	Groundwater Elevation	Depth to Bottom (feet) ^{1,2}
	1		99.98			99.61			99.57			101.25	
II IICE	Elevation, TPVC 6/8/1993	NP	NP	NP									
	5/11/1994	NP	NP	NP									
	5/31/1994	NP	NP	NP									
	6/20/1996	2.01	97.97	14.36	1.66	97.95	14.46	1.64	97.93	14.36			
	7/26/1996	4.28	95.70	4.78	3.90	95.71	4.40	3.89	95.68	4.39	9.65	91.60	13.50
	11/14/1996	4.20			6.36	93.25							
	2/26/1997	5.30	94.68	14.10	4.92	94.69	14.20						
Street Street	4/24/1997	4.79 (film)	95.19	3.54	4.44	95.17	3.54	4.39	95.18	3.58	6.04 (0.03)	95.21	13.50
	5/14/1997	4.10	95.88	14.11	3.72	95.89	14.21						
	8/26/1997	3.44	96.54	14.10	3.09	99.23	14.19						
10.70	11/17/1997	6.90	93.08		6.5 (0.50)	93.11							
MICHAEL COMP.	2/27/1998	2.80 (film)	97.18		2.42 (film)	97.19							
	5/11/1998	4.02	95.96		3.67 (film)	98.65							
A.	7/16/1998		93.90	<u></u>	4.90	97.42							
1400-4	8/20/1998	3.56	96.42	14.34	3.20	99.12	14.45	3.20	96.37	14.34			
	11/18/1998	3.79	96.19	14.34	3.79	98.53	14.45	3.79	95.78	14.34			**
	2/24/1999	2.84	97.14	14.34	2.97	99.35	14.45	2.46	97.11	14.34			
	7/26/1999	2.62	97.36	14.34	2.25	100.07	14.45	2.21	97.36	14.34			
i.son=		4.44	95.54	14.34	4.07	98.25	14.45	4.45	95.12	14.34			
	11/15/1999 2/8/2000	5.32	94.66	14.25	4.95	97.37	13.33	**					
	8/14/2002	3.12	96.86	14.25	2.80	99.52	13.33	2.79	96.78	14.34		**	**

The treatment system began operation on 8/20/96.

Bolded values indicate depth to bottom of spear.

Well not present at time of water level measurements.

Indicates product detected in well and thickness in feet, if product level measurement was made while collecting water level information.

Data not collected

A.6.3. Water Level Elevations

BIOLOGICAL PARAMETERS

NATURAL ATTENUATION SAMPLING

MILWAUKEE COUNTY ZOO/FORMER BLIFFERT SITE - MILWAUKEE, WISCONSIN

				Parameter - Field		Parameter - Laboratory Measurements				
	Ī	Dissolved				Redox	Methane	Nitrogen	Sulfate	Iron
	į	Oxygen	pН	Temperature	Conductivity	(ORP)	in Water	(Nitrate-Nitrite)	Dissolved	Dissolved
Well	Date	mg/L	- 1	"C 150 6	uS/cm	mV	ug/L	mg/L	mg/L	mg/L
MW-1*	07/26/1999	6.45	6.3	12.9	595	-020	0% LEL	0.13	160	<0.139
MW-1*	11/16/1999	5.35	7.13	13.7	920	-057	0% LEL	0.11	240	<0.139
MW-1**	02/08/2000	6.9	7.9	8.4	1004	375	28	0.11	240	<0.139
MW-3*	07/28/1999	1.72	6.41	23.5	826	-006	0% LEL	0.085	170	27
MW-3*	11/16/1999	0.28	6.59	16.7	1627	-026	0% LEL	0.1	13	3.9
MW-3**	02/08/2000	3.1	7.5	11	1972	338	6900	0.1	25	6.3
MW-4*	07/27/1999	4.98	6.93	16.5	755	-035	0% LEL	<0.02	180	<0.139
MW-4*	11/16/1999	3.97	6.77	14.2	1728	-036	0% LEL	<0.02	1000	0.42
MW-4**	02/08/2000	2.3	7.6	8.5	2504	400	67	0.092	1000	1.4
MW-5*	07/27/1999	4.13	6.76	16.1	933	-025	0% LEL	0.15	230	<0.139
MW-5*	11/16/1999	6.38	7.00	13.8	1371	-050	0% LEL	0.12	580	<0.139
MW-5**	02/08/2000	3.5	7.80	8.2	1851	404	<0.5	0.12	460	< 0.139
MW-6*	07/26/1999	4.76	6.56	14.9	1577	-032	0% LEL	<0.02	940	0.97
MW-6*	11/16/1999	2.87	6.81	14.1	1631	-038	0% LEL	0.11	520	1.3
MW-6**	02/08/2000	3.2	7.7	9.2	1944	290	210	0.25	330	1.3
MW-7*	07/27/1999	3.17	6.74	16.4	1016	-024	0% LEL	<0.02	140	17
MW-7*	11/16/1999	1.19	6.68	14.1	1049	-031	0% LEL	<0.02	110	8.5
MW-7**	02/08/2000	2.2	7.6	9.4	1585	298	1100	0.092	240	9.6
MW-8*	07/27/1999	3.07	6.54	17.8	1407	-011	0% LEL	0.078	290	5.4
MW-8*	11/16/1999	4,96	6.98	14.6	1673	-048	0% LEL	<0.02	76	3.8
MW-8 Dup.*	11/16/1999	-		-	-		0% LEL	<0.02	74	0.95
MW-8*	02/08/2000	3.3	7.4	8.4	2315	289	1800	0.1	40	3.0
MW-9*	07/26/1999	6.99	6.52	18.4	1306	-030	0% LEL	0.076	140	0.33
MW-9*	11/16/1999	2.17	6.80	13.2	1775	-037	0% LEL	0.13	370	3.9
MW-9**	02/08/2000	2.5	7.30	7.7	2861	342	6.5	0.085	50	7.7
MW-11*	07/27/1999	6.76	7.13	21.3	744	-020	0% LEL	0.32	170	<0.139
MW-11 Dup.*	07/27/1999		-	-	-	-	0% LEL	0.13	230	<0.139
MW-11*	11/16/1999	7.18	7.35	12.1	764	-070	0% LEL	0.35	150	<0.139
MW-11**	02/08/2000	5.1	7.4	8.3	841	399	1.6	0.14	160	<0.139
EW-5*	07/28/1999	0.89	6.69	20.5	1330	-023	0% LEL	0.074	360	2.9
EW-5*	11/15/1999	1.08	6.33	12.8	1158	-007	NM	0.15	10	7.8
EW-5**	02/08/2000	3.3	7.4	10.1	1237	175	4500	<0.02	14	20
EW-7*	07/28/1999	1.06	6.91	21.9	958	-036	0% LEL	0.077	10	16
EW-7*	11/15/1999	0.16	6.86	13.5	1177	-039	NM	<0.02	6.8	8.9
EW-7**	02/08/2000	2.3	7.7	9.5	1282	162	4500	0.092	1.9	18
EW-8*	07/28/1999	1.56	6.57	20.1	1568	-016	0% LEL	0.094	560	83
EW-8*	11/15/1999	0.08	6.71	12.7	1179	-030	NM	0.14	23	39
EW-8**	02/08/2000	2.6	7.6	9.7	1422	260	5200	<0.02	7.1	37

Notes:

A. 7. 1. Other

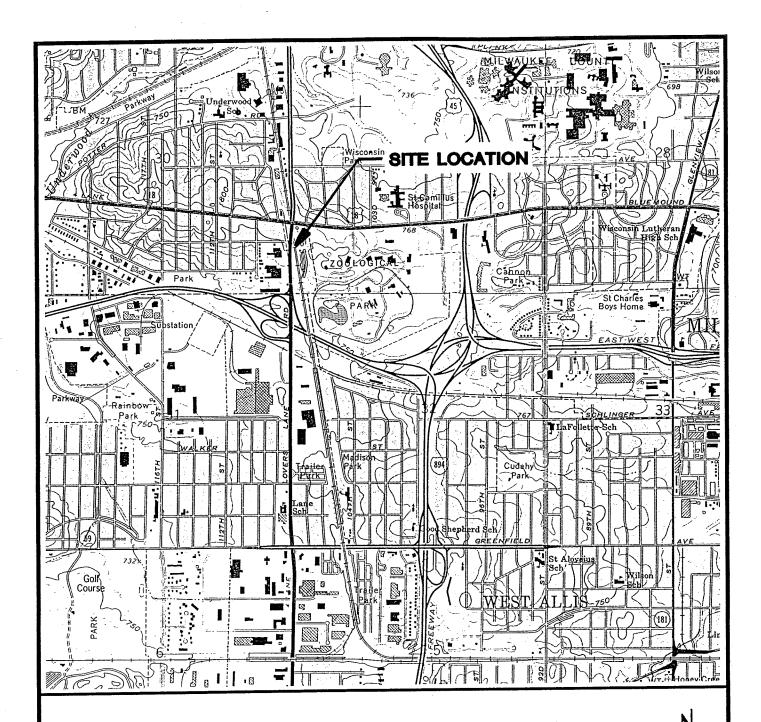
^{*} Field measurements obtained by Singh & Associates with measuring devices at surface.

^{**} Field measurements obtained by Dakota Intertek Corp. with down-well measuring probe.

Table of Contents B. Maps, Figures and Photos Zoo-Bliffert Case Closure – GIS Registry

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 - B. 1. c. RR Sites Map
- B. 2. Soil Figures
 - B. 2. a. Soil Contamination
 - B. 2. b. Residual Soil Contamination
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 - B. 4. b. Other media of cornern
- is/are not needed for Zoo-Bliffert Case
 Closure GIS Registry. The site was capped and a parking lot for the west of the zoo was created. There are no structures.

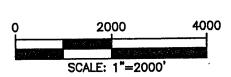
- B. 4. c. Other
- B. 5. Structural Impediment Photos- not needed, no structural impediments





STATE LOCATION

SOURCE: BASE MAP FROM WAUWATOSA, WI., 7.5 MINUTE USGS QUADRANGLE.



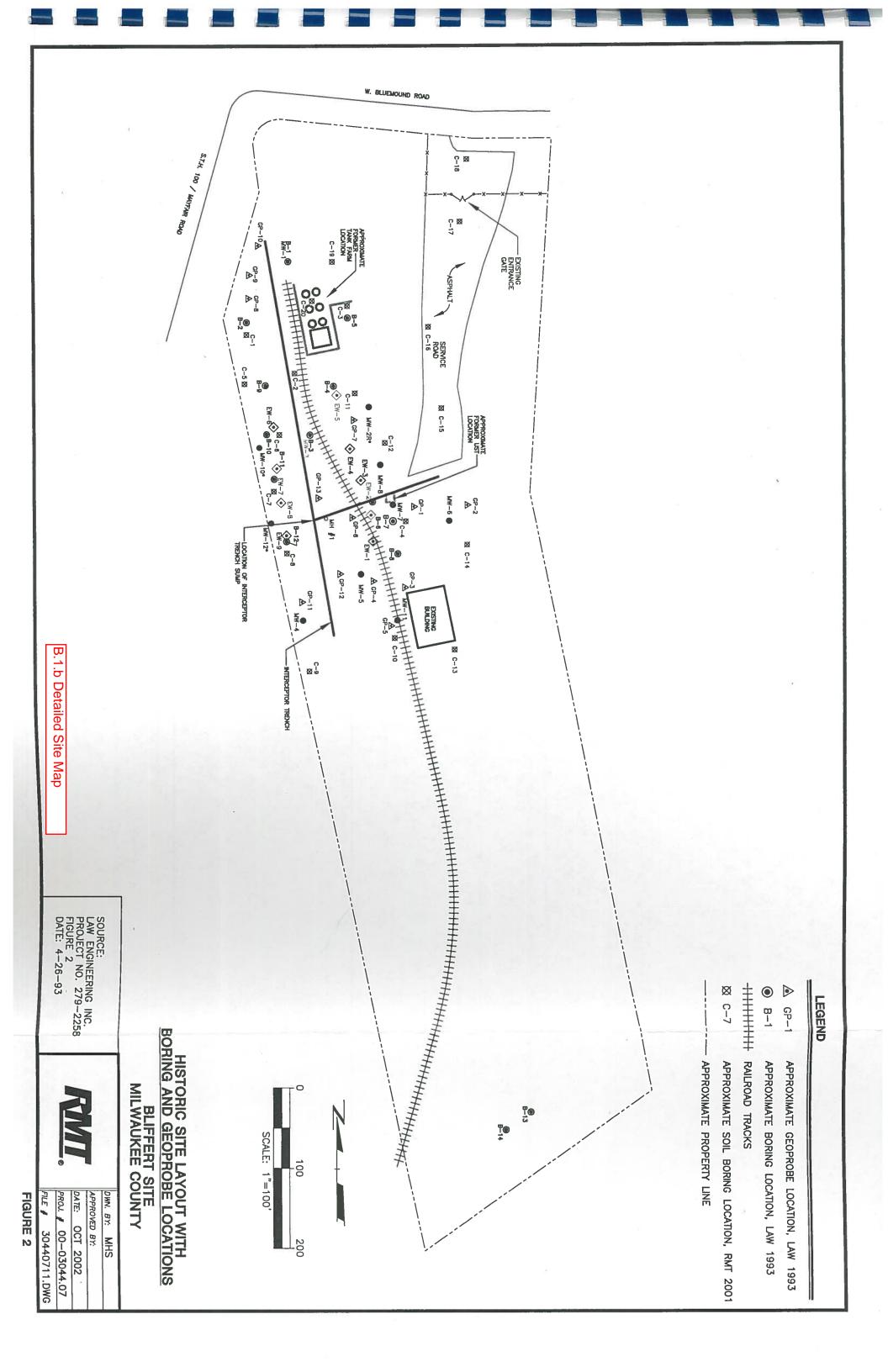
SITE LOCATOR MAP BLIFFERT LUMBER SITE MILWAUKEE COUNTY WAUWATOSA, WISCONSIN



DWN. BY	PETRICKT
APPROVI	D BY:
DATE:	JANUARY 2000
PROJ. #	3044.06
	30440601

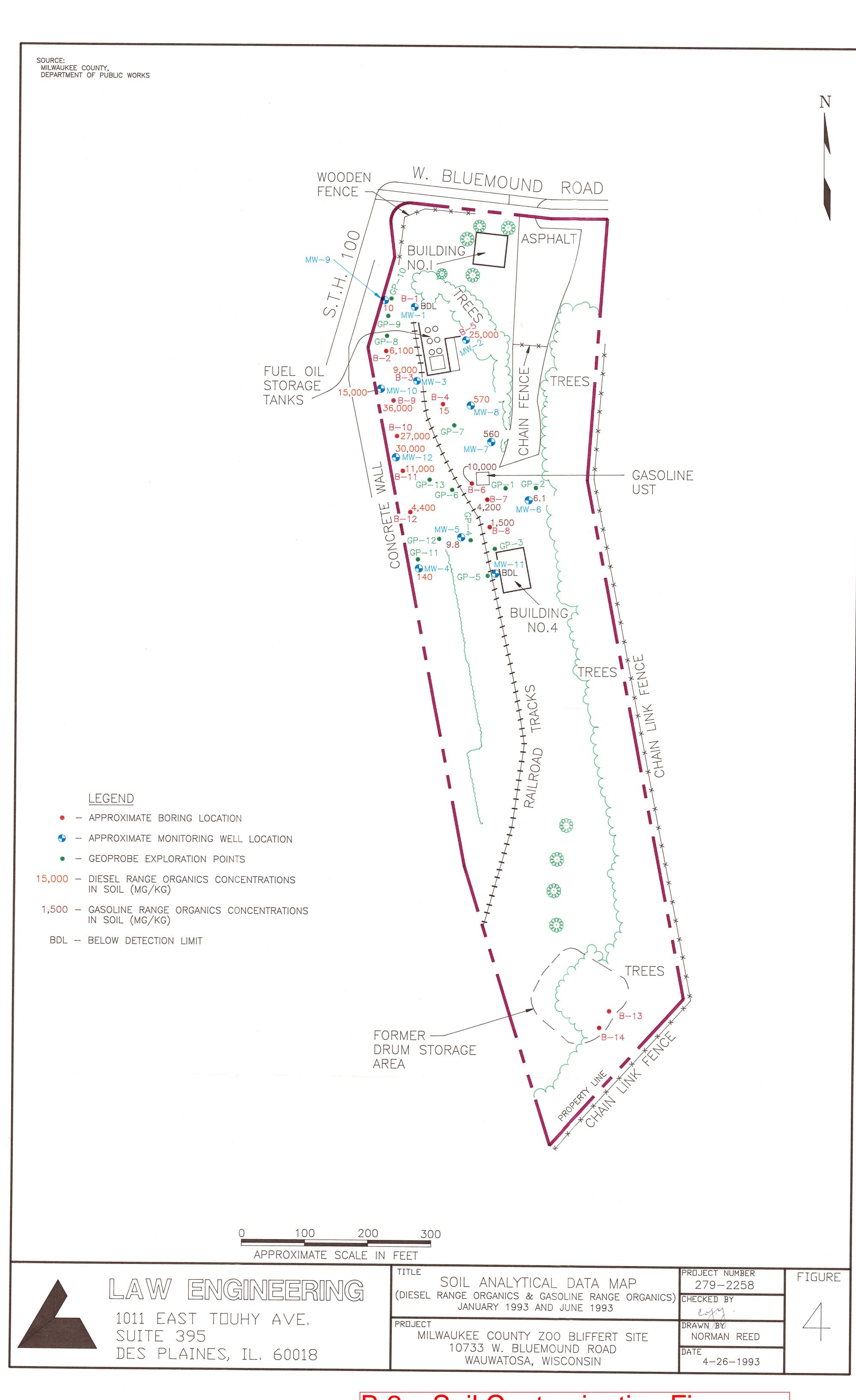
B.1.a Location Map

FIGURE 1





B. 1. c. RR Sites Map



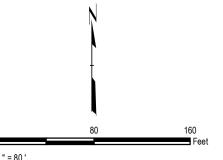
GROUNDWATER MONITORING WELL

SOIL PROBE BORING (5/2013)

SOIL PROBE BORING & TEMPORARLY WELL (5/2013)

APPROXIMATE EXTENT OF SOIL EXCEEDING NR 720 RCLS - MAY 2013

BASEMAP IMAGERY FROM ESRI/BING, "WORLD IMAGERY", WEB BASEMAP SERVICE LAYER, 2011.



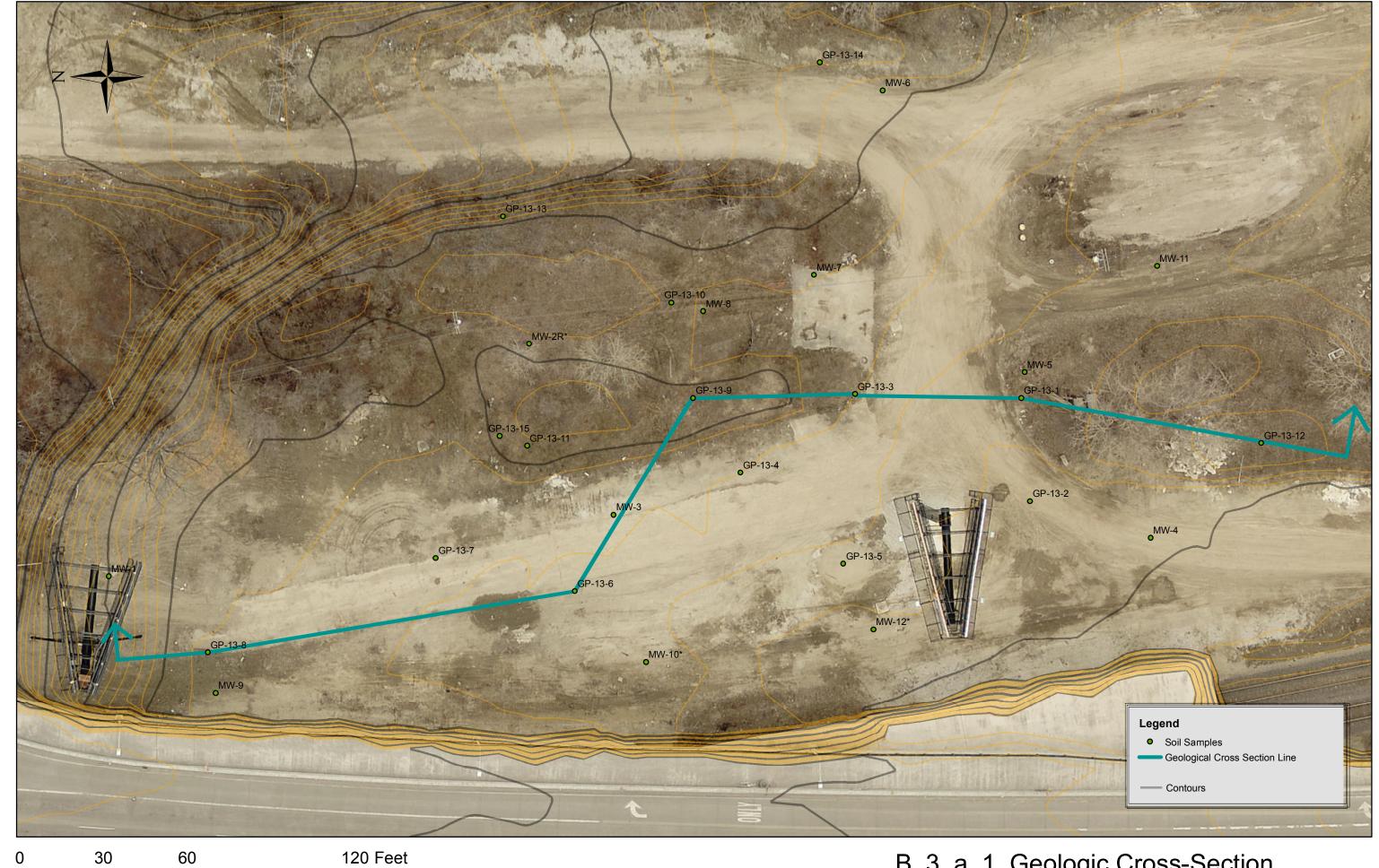
MILWAUKEE COUNTY - BLIFFERT SITE WDNR BRRTS NO. 02-41-000655 PECFA NO. 53226-4282-33-A

SOIL CONTAMINANT DISTRIBUTION MAP MAY 2013

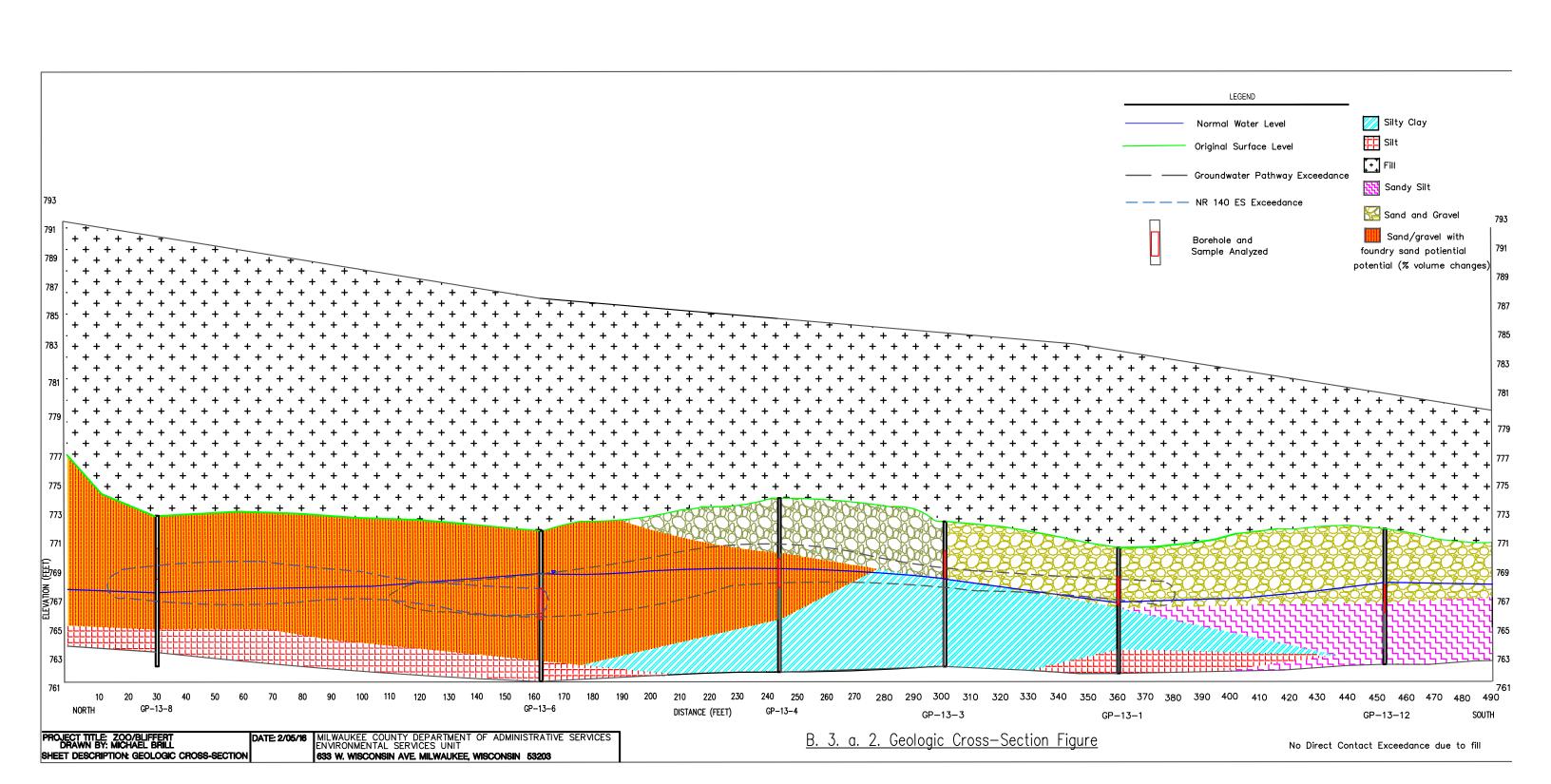
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CHECKED BY:		1: 960	FILE NO.	202083-002.mxd
APPROVED BY:		DATE PRINTED:		FIGURE 4
DATE:	JULY 2013			FIGURE 1



708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com

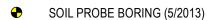


B. 3. a. 1. Geologic Cross-Section



LEGEND

GROUNDWATER MONITORING WELL



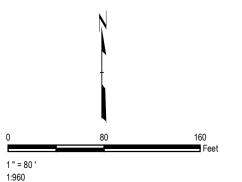
SOIL PROBE BORING & TEMPORARLY WELL (5/2013)



APPROXIMATE EXTENT OF GROUNDWATER EXCEEDING NR 140 ES - JUNE 2013

NOTES

 BASEMAP IMAGERY FROM ESRI/BING, "WORLD IMAGERY", WEB BASEMAP SERVICE LAYER, 2011.



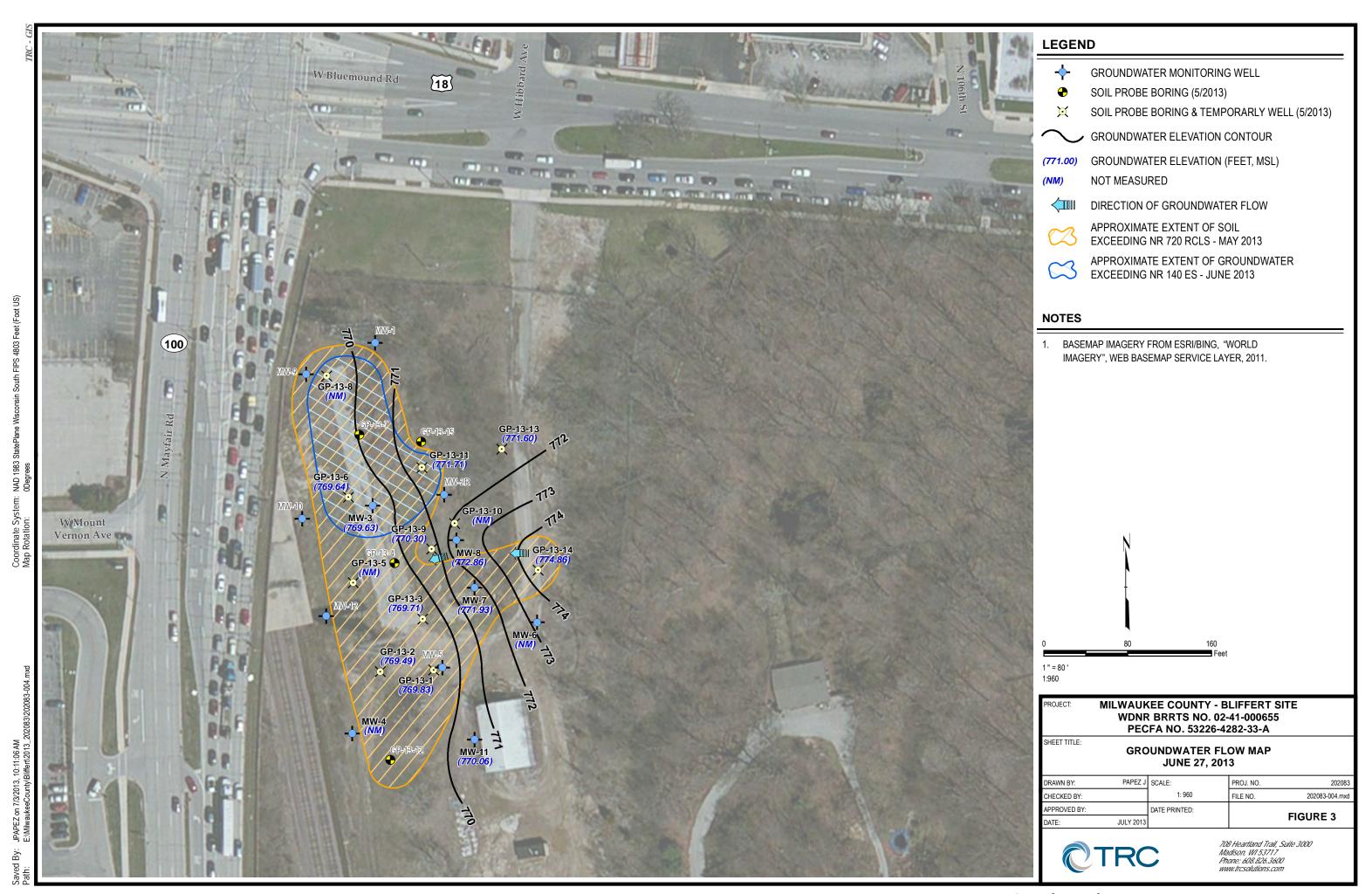
MILWAUKEE COUNTY - BLIFFERT SITE
WDNR BRRTS NO. 02-41-000655
PECFA NO. 53226-4282-33-A

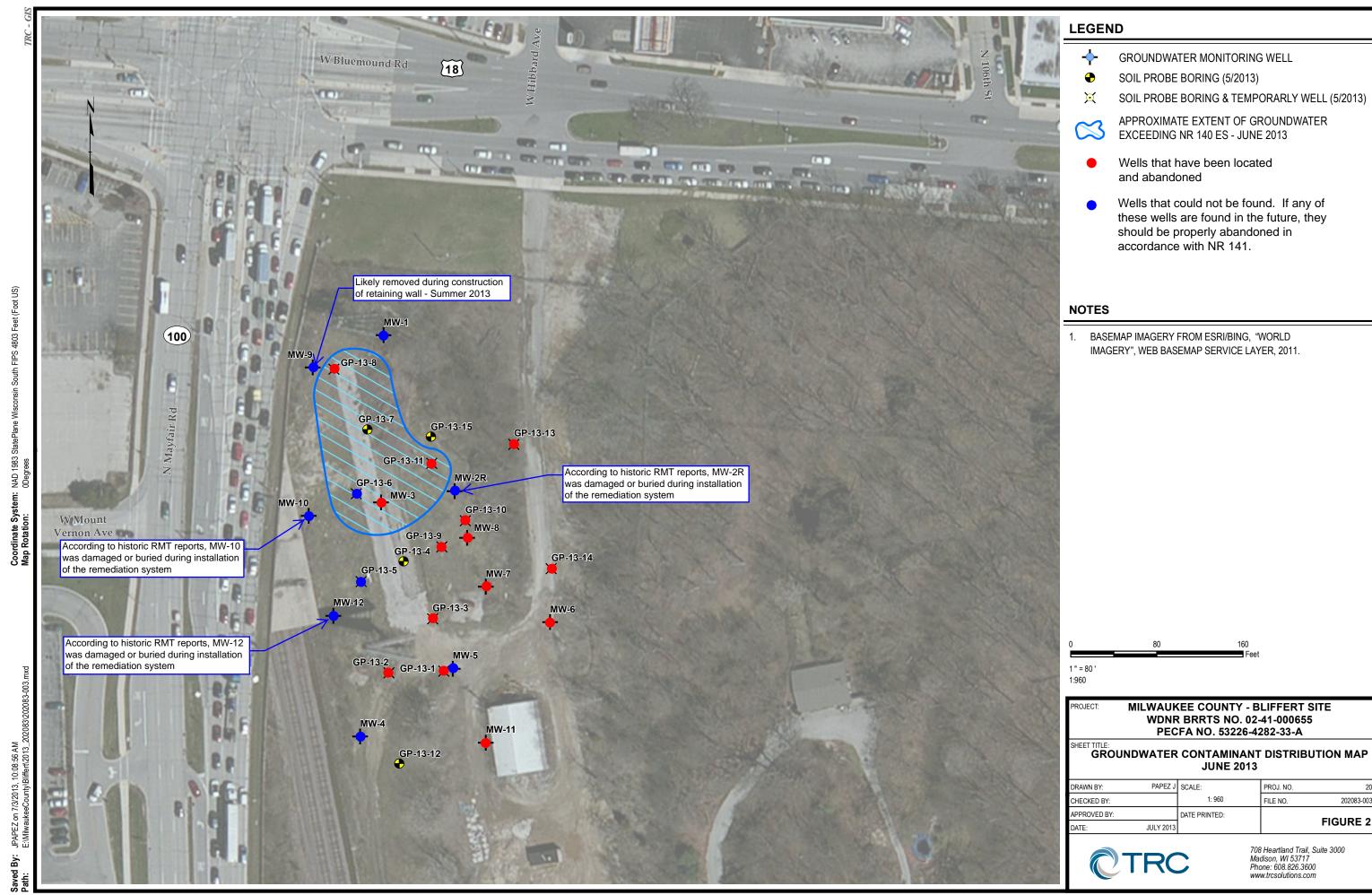
GROUNDWATER CONTAMINANT DISTRIBUTION MAP
JUNE 2013

DRAWN BY:	PAPEZ J	SCALE:	PROJ. NO.	202083
CHECKED BY:		1: 960	FILE NO.	202083-003.mxd
APPROVED BY:		DATE PRINTED:		FIGURE 6
DATE:	JULY 2013			FIGURE 2



708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com





202083

202083-003.mxd

FIGURE 2

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).

Zoo-Bliffert Case Closure – GIS Registry

Vapor Maps and Other Media is/are not needed for Zoo-Bliffert Case Closure – GIS Registry. The site was capped and a parking lot for the west of the zoo was created. There are no structures.

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.

Zoo-Bliffert Case Closure – GIS Registry

Not applicable. There are no structural impediments.

Table of Contents C. Documentation of Remedial Action Zoo-Bliffert Case Closure – GIS Registry

- C. 1. Site Investigation- Figure created from documents found related to case closure
- C. 2. Investigative Waste- Figure is not applicable. All applicable documents were previously submitted
- C. 3. Description of Methodology- Figure is not applicable. The WDNR's RCC spreadsheet was used
- C. 4. Construction Documentation- Figure from Sigma 2015
- C. 5. Decommissioning of Remedial Systems- Figure is not applicable. All applicable documents were previously submitted
- C. 6. Other Figures from TRC DOT Zoo Interchange 2013

C.1. Site investigation documentation that has not otherwise been submitted with the Site Investigation Report.

Zoo-Bliffert Case Closure – GIS Registry

Site investigation documentation is not needed for Zoo-Bliffert Case Closure – GIS Registry. All site investigation documentation is believed to be previously turned in, including:

Description	Firm	Date
Data Package	TRC	July 3, 2013
Scope of Work	Milwaukee County	February 26, 2013
Phase 2.5 Investigation.	TRC	April 2012
U&C Scope of Work Approval	Milwaukee County	April 2012
Clarification of LGU Liability Exemption for Acquiring Contaminated Property	WDNR	December 13, 2002
Closure Denial	WDNR	November 15, 2000
Closure Request	RMT	May 11, 2000
Progress Report #9 (Jan 99 -Dec 99)	RMT	January 24, 2000
Hwy 100 Well Installation attempt	RMT	July 7, 1999
Approval system Shut down	WDNR	April 29, 1999
Progress Report #9 (Oct 98-Dec 98)	RMT	February 12, 1999
Progress Report #8 (Jul 98 -Sept 98)	RMT	November 18, 1998
Progress Report #7 (Apr 98-Jun 98)	RMT	July 10, 1998
Progress Report #6 (Jan 98-Mar 98)	RMT	April 17, 1998
Progress Report #5 (Oct 97-Dec 97)	RMT	February 11, 1998
Progress Report #4 (Jul 97 - Oct 97)	RMT	November 4, 1997
Progress Report #3 (Mar 97-Jun 97)	RMT	July 3, 1997
Progress Report #2 (Dec 96-Feb 97)	RMT	April 11, 1997
Approval Construction activities	WDNR	January 9, 1997
Progress Report #1 (Aug 96 - Nov 96)	RMT	January 6, 1997
Bliffert Environmental Claim	Weiss Berzowski	June 27, 1996
Documentation Report of Groundwater Treatment System Installation	RMT	May, 1996
Revised Remedial Action Plan	RMT	December, 1995
Baseline Groundwater Sampling Results	RMT	August, 1994

Baseline Groundwater Sampling Results	RMT	July, 1994
Report of UST and AST Removal	Law Engineering	April 11, 1994
Form 4-DNR SI and RAP review	WDNR	March 7, 1994
Well borehole abandonment form	Aqua Well & Pump	December 8, 1993
AST Removal Report	Ganos Company	December 7, 1993
Checklist for AST and UST closure (12		
tanks)	Milwaukee County	December 2, 1993
Conceptual Remedial Action Plan	Law Engineering	November 4, 1993
DNR Notification Letter	WDNR	September 13, 1993
Report of Site Characterization	Law Engineering	August 11, 1993
Phase II Environmental Reconnaissance	STS Consultants	November 30, 1988
Phase I Environmental Reconnaissance	STS Consultants	October 13, 1988

C. 2. Investigative waste disposal documentation.

Zoo-Bliffert Case Closure – GIS Registry

Investigative waste disposal documentation, where applicable were previously submitted with the documentation listed in C. 1.

 $C.\ 3.\ Provide\ a\ description\ of\ the\ methodology\ used\ along\ with\ all\ supporting\ documentation\ if\ the\ RCLs\ are\ different\ than\ those\ contained\ in\ the\ Department's\ RCL\ Spreadsheet\ available\ at:\ http://dnr.wi.gov/topic/Brownfields/Professionals.html.$

Zoo-Bliffert Case Closure – GIS Registry

Methodology description is not applicable for Zoo-Bliffert Case Closure. The WDNR's RCC spreadsheet was used.

10001 W. BLUEMOUND ROAD, MILWAUKEE, WISCONSIN 53226

3.5' HIGH PREFINISI ALUMINUM FENCE

MILWAUKEE COUNTY ZOO

ZOO NEW (WEST) PARKING LOT

DATE: **01/20/2015**

PARKING LOT PACKAGE GRADING PLAN

PROJECT: **Z150-14452**

WORK TO BE COMPLETED IS INDICATED IN BOLD TYPE LINES AND EXISTING CONDITIONS ARE INDICATED BY LIGI TYPE LINES.

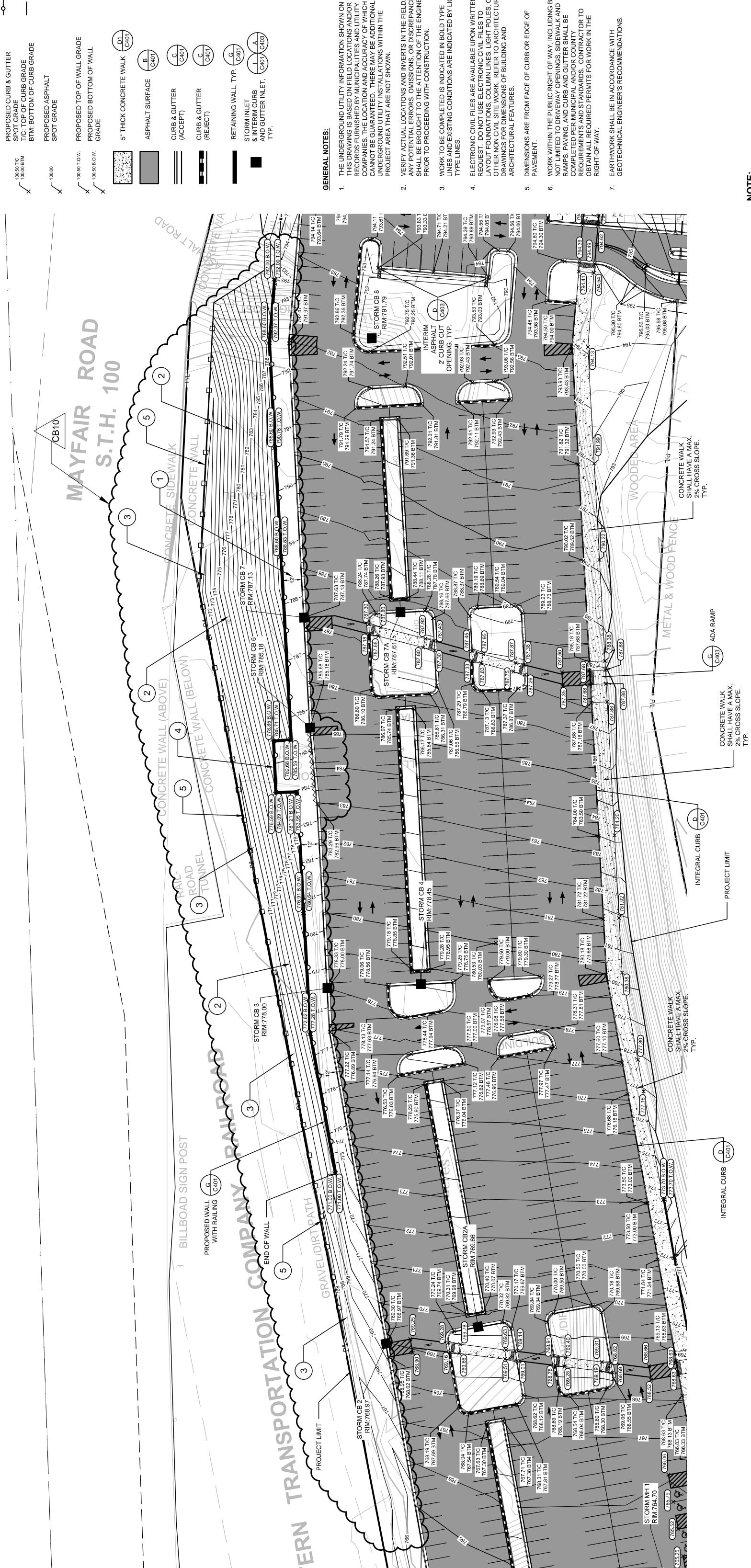
ASPHALT GRADES SHOWN REPRESENT FINAL FINISHED ASPHALT GRADES. ONLY FIRST LIFT (2") OF ASPHALT SHALL BE PLACED AS PART OF THIS PARKING LOT PACKAGE. SECOND ASPHALT LIFT IS NOT INCLUDED IN THIS PACKAGE.

INTERIM CURB AND GUTTER SHALL BE INSTALLED AT ALL CURB INLETS. REFER TO SHEET C403 DETAIL A. <u>ار</u>

STORM MANHOLE AND INLET RIM
ELEVATIONS ARE FINAL ELEVATION
CONTRACTOR TO ADJUST RIMS TO
MATCH THE FIRST LIFT OF ASPHALT
GRADES. FINAL ASPHALT LIFT AND
ADJUSTMENT OF RIMS TO MATCH FINAL
LIFT NOT INCLUDED IN THIS PACKAGE. က်

INSTALL EROSION CONTROL BEHIND WALL.

PROVIDE 3' SMOOTH TRANSITION TO FEATHER THE TOP OF THE BINDER COURSE (BOTTOM ASPHALT LIFT) TO MEET THE TOP OF CONCRETE SIDEWALK, RAMPS AND CURB AND GUTTER FLANGE, WHICH WILL BE 2" HIGHER THAN THE ASPHALT BINDER COURSE. REFER TO SHEET C403 DETAIL G. 4.



C. 5. Decommissioning of Remedial Systems. Include plans to properly abandon any systems or equipment.

Zoo-Bliffert Case Closure – GIS Registry

Decommissioning of Remedial Systems is not applicable for Zoo-Bliffert Case Closure. Remedial systems decommissioning was previously submitted.



150 North Patrick Blvd. Suite 180 Brookfield, WI 53045

262.879.1212 PHONE 262.879.1220 FAX

www.TRCsolutions.com

October 17, 2013

Mr. Michael Cape, P.G.
Senior Hydrogeologist
Wisconsin Department of Transportation
141 NW Barstow Street
P.O. Box 798
Waukesha, WI 53187-0798

Subject: Contaminated Soil and Groundwater Managed During Construction Mayfair Road from I-94 to Watertown Plank Road, Milwaukee County Part of Zoo Interchange Project

WisDOT Project ID No. 1060-33-70 TRC Project No. 199874.0000.0000

Dear Mike:

TRC Environmental Corporation (TRC) has prepared this report to document the management of contaminated soil and groundwater during construction at the above-referenced project. No further work is recommended to be completed by the WisDOT.

Background and Scope

Mayfair Road is being reconstructed as part of the early stages of the overall Zoo Interchange reconstruction Mega Project (see Figure 1 for the Mayfair Road project location and limits). In preparation for this work, Forward 45 completed a Phase 1 Hazardous Materials Assessment in 2011, and TRC completed Phase 2.5 investigations in 2012. Summary information (i.e. tabulated data and site figures showing areas of contamination) from this work is included in Attachment 1. TRC prepared the hazardous materials special provisions, a copy is included in Attachment 1. The hazardous materials special provisions were submitted to the WDNR. The WDNR responded by issuing the concurrence letters included at the end of Attachment 1. Note that the WDNR concurred that the CVOC contamination at one of the sites was non-hazardous (see WDNR letter dated May 29, 2012 for Site 33 in Attachment 1). An overview of the areas where contamination has been identified by the Phase 2.5 investigation within the project limits is presented as Figure 2.

Mr. Michael Cape, P.G. Wisconsin Department of Transportation October 17, 2013 Page 2

TRC attended the pre-construction meeting on February 18, 2013 to discuss with the project team the known hazardous material locations; that TRC was to be on-site during excavations in these areas; and to discuss which WDNR-licensed landfill would be used for this project. Super Western, the prime and excavation contractor for the project, selected Advanced Disposal's Emerald Park Landfill in Muskego, Wisconsin for bioremediation of the petroleum-contaminated soil and disposal of the CVOC-contaminated soil excavated during the project. TRC prepared waste profiles and coordinated the pre-approval of the soils for bioremediation and disposal at Emerald Park landfill. Copies of the waste profiles are included in Attachment 2.

Mr. Chris Pulvermacher of Super Western was TRC's primary contact for coordinating our field time for this project.

Construction Management

TRC made site visits to document excavations within or near the known contaminated areas on April 4, 5, 8, 22, 23, 24, 25, 26, 27, 30, May 3, 6, 7, 8, 10, 11, 13, June 27, July 26, 29, 30, 31, and August 1, 2, 3, 5, 6, 7, 2013.

As planned, the majority of contaminated soil managed for this project was in the southeast quadrant of Mayfair Road and Bluemound Road for retaining walls R-40-477 (see Figure 3). A majority of TRC's time on-site was also spent at this location, with excavations continuing from early April through mid-May, 2013. A total of 366 truckloads (6,866 tons) of contaminated soil was excavated from this location, which is more than the estimated quantity of 4,650 tons due to the following conditions, as discussed with the WisDOT at several times during construction:

- The vertical extent of contaminated soil was greater than previously identified within the area of planned contaminated soil excavation,
- The Project Engineer determined that soil excavated near the contaminated area was in contact with groundwater and therefore contaminated (even when TRC's field screening did not indicate the presence of contamination), and,
- TRC's field screening indicated that contaminated soil extended further south along the railroad tracks than originally documented by the Phase 2.5 investigation, for which borings were 25' east of the tracks or more (due to railroad restrictions).

Mr. Michael Cape, P.G. Wisconsin Department of Transportation October 17, 2013 Page 3

Contaminated groundwater was also encountered in the southeast quadrant of Mayfair Road and Bluemound Road. Groundwater that prohibited construction was pumped into tanker trucks and/or pumped directly into manhole #09516 and discharged into the local sanitary sewer, per the MMSD permit found in Attachment 3. A total of 225,800 gallons of contaminated water was treated by MMSD as a result of the project activities, as also documented in Attachment 3.

Excavations in two other areas of petroleum contamination were less than originally estimated (e.g., shallower) which resulted in less petroleum-contaminated soil being excavated here than originally estimated.

Excavations in the area of CVOC-contaminated soil did not go deeper than 6' bgs (CVOC-contaminated soil was present from approximately 6' to 10' bgs here), therefore no contaminated soil was excavated at this location.

A total of 375 truck-loads (7,002.19 tons) of petroleum-contaminated soil were excavated by the project (most, 6,866 tons, was excavated from the southeast quadrant at Bluemound Road) and bioremediated at Advanced Disposal's Emerald Park landfill. See Attachment 4 for disposal documentation.

Photographs for this project are included in Attachment 5.

Findings and Conclusions

Petroleum-contaminated soil was excavated and managed by the project as planned. More petroleum-contaminated soil was managed in the southeast quadrant of Mayfair Road and Bluemound Road than originally estimated for the reasons stated above. Less soil was excavated from the other two areas of petroleum-contaminated soil than originally estimated, and excavations were shallower than anticipated in the area of CVOC impacts and so CVOC-contaminated soil was not encountered during construction.

A total of 375 truckloads (7,002.19 tons) of petroleum-contaminated soil were excavated by the project (most, 6,866 tons, was excavated from the southeast quadrant at Bluemound Road) and transported to Advanced Disposal's Emerald Park landfill for bioremediation.

No additional investigations or remediation by the WisDOT is recommended.

Mr. Michael Cape, P.G. Wisconsin Department of Transportation October 17, 2013 Page 4

TRC appreciates the opportunity to be of service to the WisDOT on this project. If you have any questions regarding this project or report, please contact us at 262-879-1212.

Sincerely,

TRC Environmental Corporation

W.SSR

Tyler Stapel, E.I.T. Project Engineer Ken W. Yass, P.E., CHMM Project Manager

Attachments: Figure 1 – Project Location and Limits

Figure 2 – Overview of Contaminated Soil Managed During Construction

Figure 3 – Location of Contaminated Soil Managed During Construction

Figure 3 – Location of Contaminated Soil Managed During Construction in Southeast Quadrant at Bluemound Road

Figure 4 – Location of Contaminated Soil Managed During Construction South of Watertown Plank Road

Attachment 1 – Phase 2.5 Summary Information, Hazardous Materials Special Provisions and WDNR Concurrence Letters

Attachment 2 - Waste Profiles

Attachment 3 - MMSD Permit and Water Treatment Quantity
Documentation

Attachment 4 - Soil Disposal Documentation

Attachment 5 - Photographs

cc: Jason Zembroski – WCP-Zoo Project Leader (hard copy and pdf on CD)
 Tim Detzer – Milwaukee County (hard copy and pdf on CD)
 Shar TeBeest – WisDOT (hard copy and pdf on CD)
 Jim Morse – TRC

199874.0000.0000

PROJ. NO.

FILE NO.

AS NOTED DATE PRINTED

K. YASS

CHECKED BY: APPROVED BY:

DRAWN BY:

COORDINATES ON THIS PLAN ARE REFETO THE WISCONSIN COUNTY COORDINATIONCES), MILWAUKEE COUNTY ZONE, NAD

OCTOBER 2013

ELEVATIONS SHOWN ON THIS PLAN ARE DATE: THE NORTH AMERICAN VERTICAL DATUM

₹

TOTAL NET LENGTH OF CENTERLINE = 1,141

0.5 ML

Base Map Provided by WisDOT

SCALE

J. KONIAR T. STAPEL

WAUWATOSA, WI - WISDOT ID 1060-33-70

STA 580S x=569171.75 Y=297065.17

CITY OF WEST ALLIS MILWAUKEE CO.

R-20-E CITY OF NEW BERLIN WALKESHA CO.

- SAN

R-21-E

BEGIN PRO

1-6-N

S

50

C&NW

N-9-L

CULVERT (Profile View)

UTRITES

ELECTRIC

FIBER OPTIC

GRADE ELEVATION

Book .

PROFILE as such)

MARSH OR ROCK F (To be noted o

ORIGINAL GROUND

GRADE LINE

- (ARE -

AVE.

GREATEL D

PROJECT LOCATION AND LIMITS

MAYFAIR ROAD RECONSTRUCTION

FIGURE 1

150 North Patrick Blvd. Suite 180 Brookfield, WI 53045 Phone: 262.879.1212

EPARTMENT OF TRANSPORTATION		
EPARTMENT OF TRANSPORT		ATION
STATE OF WISCO EPARTMENT OF TRAN	Z	PORT
STATE OF EPARTMENT OF	VISCONS	RAN
EPARTM	-	
	STATE	PART

Typical Sections and Details

ORDER OF SHEETS

JAN 13

Section No.

Section No.

Section No. Section No.

Miscellaneous Oucntitles

Right of May Plat Plan and Profile

Section No.

Section No.

Section No

Section No.

Estimate of Owantities

Standard Detail Drawings

Computer Earthwork Data

Cross Sections

Section No

1438

TOTAL SHEETS

Structure Plans

Section No. Section No.

Sign Plates

CONTRACT

WISC 2013001

PROJECT

STATE PROJECT

1060-33-70

FEDERAL PROJECT

ROAD PLAN OF PROPOSED IMPROVEMENT MAYFAIR 1

WATERTOWN PLANK ROAD 0 IH 94

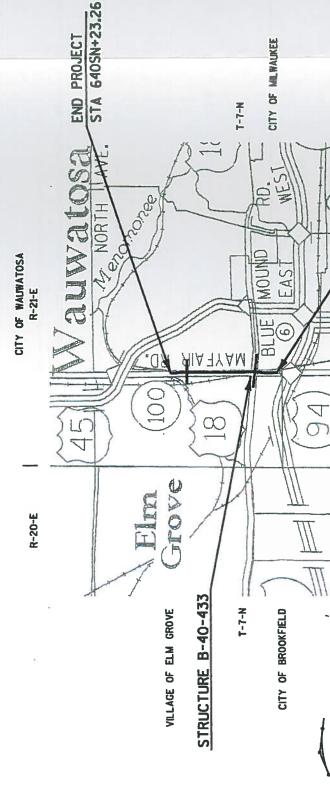
MILWAUKEE COUNTY **STH 100**

1060-33-70

SIGN STRUCTURES

RETAINING WALLS

R-40-475 R-40-476 R-40-477



19,080 24,330 2,660 38% EB/62% WB 3,50% 40 MPH 2,430,900 WATERTOWN PLANK ROAD BLUEMOUND ROAD 밅 28,580 39,310 4,760 z SB 60% EB/40% % 40 MPH 2,102,400 33,430 43,050 5,420 382 NB/622 5 2.702 45 MPH 2,387,600 DESIGN DESIGNATION STH 100 2013 2035 2035 DESIGN SPEED AAD.T.

PROPOSED OR NEW R/W LINE CONVENTIONAL SYMBOLS LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY CORPORATE LIMITS SLOPE INTERCEPT REFERENCE LINE PROPERTY LINE LOT LINE

COMBUSTIBLE FLUIDS PROPOSED CULVERT (Box or Pipe) EXISTING CALVERT

WOODED OR SHRUB AREA

OVERHEAD ELECTRIC UTILITY PEDESTAL SANITARY SEWER STORM SEWER POWER POLE TELEPHONE WATER

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X ·o ø X

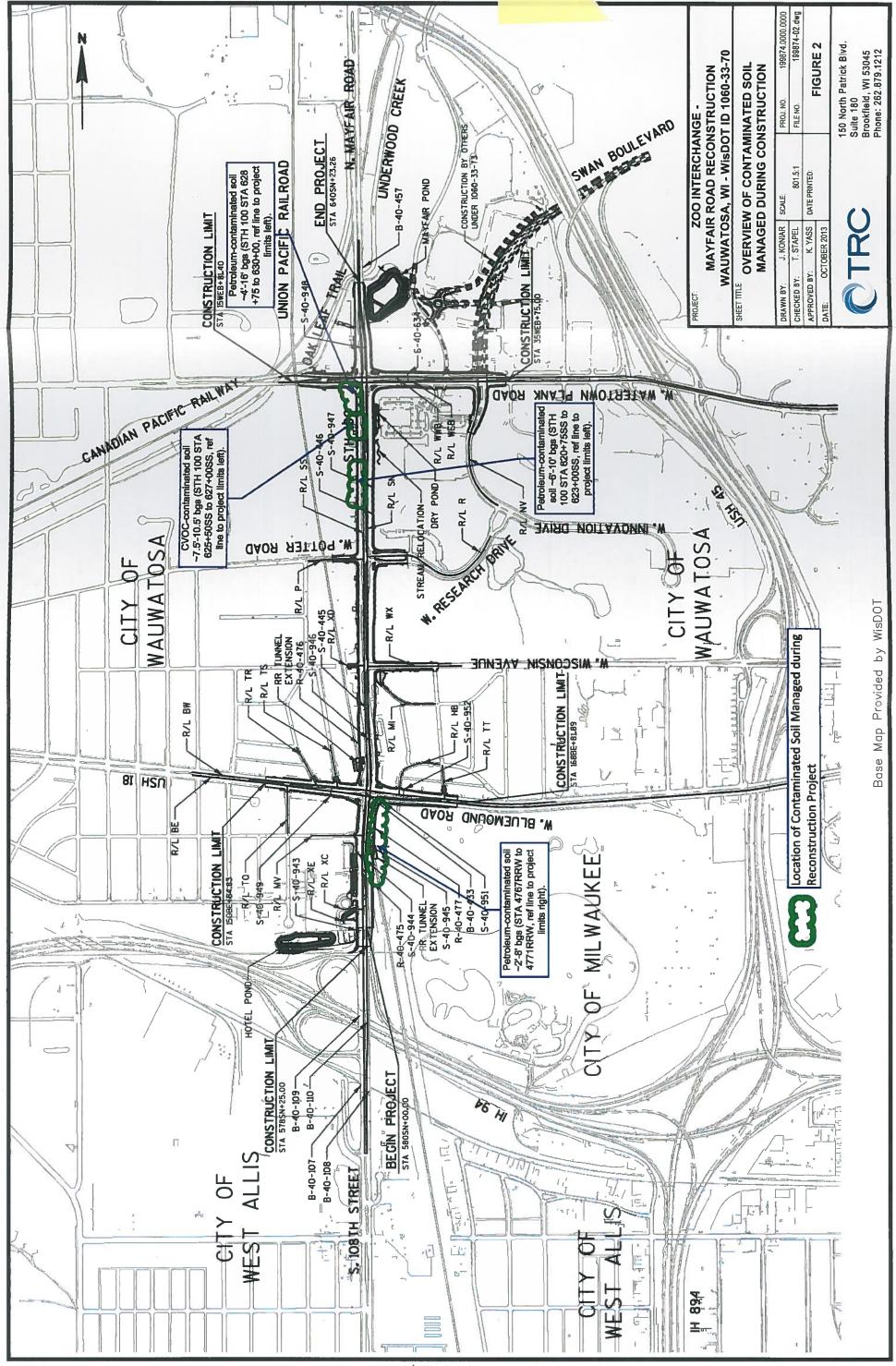
TELEPHONE POLE TRANSMISSION TOWER

MG 85:4 Plot Time: October 11, 2013 Plot Date: 0.43 Mb Dwg Size:

gwb_f0-47899f/47899f/TOGsiW/:L

Drawing Plot Scale: E9898E.0 Operator Name: KONIAR, JOHN Drawing Name: ATAU TOJA

MARSH AREA



Operator Name: Drawing Name:

PLOT DATA

C. 6. 7. Other

Super Western BIOEPL2013-026

Date	Scale Ticket #	Customer	T			
04/04/2013		001065 - SUPER WESTERN, INC	Truck #	Material	Tons	Loads
04/04/2013	1109782	001065 - SUPER WESTERN, INC	712STONECOA			1
04/04/2013	1109788	001065 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO USTS		2
04/04/2013	1109794	001065 - SUPER WESTERN, INC	21SJSTANLEY	EX-33@ C- SOIL-PETRO USTS	22.77 TN	3
04/04/2013	1109801	001065 - SUPER WESTERN, INC	87LINGFORD	EX-33@ C- SOIL-PETRO USTS	23.67 TN	4
04/04/2013	1109812	001065 - SUPER WESTERN, INC	712STONECOA		23.27 TN	5
04/04/2013	1109823	001065 - SUPER WESTERN, INC	21SJSTANLEY	EX-33@ C- SOIL-PETRO USTs	17.86 TN	6
04/04/2013	1109833	001065 - SUPER WESTERN, INC	87LINGFORD	EX-33@ C- SOIL-PETRO USTs		7
04/04/2013	1109849	001065 - SUPER WESTERN, INC	32FLEET	EX-33@ C- SOIL-PETRO USTs		-8
04/04/2013	1109851	001065 - SUPER WESTERN, INC	73LINGFORD	EX-33@ C- SOIL-PETRO USTs		9
04/04/2013	1109855	001065 - SUPER WESTERN, INC	21SJSTANLEY	EX-33@ C- SOIL-PETRO USTs	18.85 TN	10
04/05/2013	1109903	001065 - SUPER WESTERN, INC	32FLEET	EX-33@ C- SOIL-PETRO USTs	19.16 TN	11
04/05/2013	1100000	001065 - SUPER WESTERN, INC	21SJSTANLEY	EX-33@ C- SOIL-PETRO USTs	19.02 TN	12
04/05/2013	1100002	001065 - SUPER WESTERN, INC	87LINGFORD	EX-33@ C- SOIL-PETRO USTs	19.23 TN	13
04/05/2013	1100040	001065 - SUPER WESTERN, INC	21SJSTANLEY	EX-33@ C- SOIL-PETRO USTs	18.09 TN	14
04/05/2013	1100043	001065 - SUPER WESTERN, INC	73LINGFORD	EX-33@ C- SOIL-PETRO USTs	19.88 TN	15
04/05/2013	1100057	001065 - SUPER WESTERN, INC	57LIRA	EX-33@ C- SOIL-PETRO USTs	19.35 TN	16
04/08/2013	1110066	001065 - SUPER WESTERN, INC	M72PETERS	EX-33@ C- SOIL-PETRO USTs	18.08 TN	17
04/22/2013	1111570	001065 - SUPER WESTERN, INC	87LINGFORD	EX-33@ C- SOIL-PETRO USTs	19.45 TN	18
04/22/2013	1111570	001065 - SUPER WESTERN, INC	57LIRA	EX-33@ C- SOIL-PETRO USTs	20.37 TN	19
04/22/2013	1111573	001065 - SUPER WESTERN, INC	M73PETERS	EX-33@ C- SOIL-PETRO USTs	20.90 TN	20
04/22/2013	1111574	001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	26.27 TN	21
04/22/2013	1111504	001065 SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	18.44 TN	22
04/22/2013	1111097	001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTs	20.21 TN	23
04/24/2013	1111090	001065 - SUPER WESTERN, INC	23TNG	EX-33@ C- SOIL-PETRO USTs	20.40 TN	24
04/24/2013	1111004	001065 - SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	24.61 TN	25
04/24/2013	1111808	001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	26.34 TN	26
04/24/2013	11118/2	001065 - SUPER WESTERN, INC	999	EX-33@ C- SOIL-PETRO USTs	24.93 TN	27
04/24/2013	1111879	001065 - SUPER WESTERN, INC	57LIRA	EX-33@ C- SOIL-PETRO USTs	24.76 TN	28
04/24/2013	1111880	001065 - SUPER WESTERN, INC	M72PETERS	EX-33@ C- SOIL-PETRO USTs	22.99 TN	29
	1111882	001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTs	20.08 TN	30
04/24/2013 04/24/2013	1111896	001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	24.12 TN	31
	1111905	001065 - SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	18.62 TN	32
04/24/2013 04/24/2013	1111917	001065 - SUPER WESTERN, INC	999	EX-33@ C- SOIL-PETRO USTs	13.51 TN	33
04/24/2013	1111921	001065 - SUPER WESTERN, INC	57LIRA	EX-33@ C- SOIL-PETRO USTs	22.24 TN	34
	1111923	001065 - SUPER WESTERN, INC	M72PETERS	EX-33@ C- SOIL-PETRO USTs	18.44 TN	35
04/24/2013	1111924	001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTs	20.27 TN	36
04/24/2013	1111929	001065 - SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	19.92 TN	37
04/24/2013	1111930	001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	22.52 TN	38
04/24/2013	1111932	001065 - SUPER WESTERN, INC	45TST	EX-33@ C- SOIL-PETRO USTs	17.94 TN	39
04/24/2013	1111942	001065 - SUPER WESTERN, INC	57LIRA	EX-33@ C- SOIL-PETRO USTs	20.07 TN	40
04/24/2013	1111944	001065 - SUPER WESTERN, INC	M72PETERS	EX-33@ C- SOIL-PETRO USTS	18.82 TN	41
04/24/2013	1111946	001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTS	16.54 TN	42
		801085 - SUPER WESTERN, MC		BANK OF LESS HER		74
		Suetomer	THE P			

C. 6. 8. Other

Date Scale Ticket #	Customer	Truck #	Material	Tons	Loads
	953 001065 - SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	22.68	TN 43
	154 001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	20.45	TN 44
	55 001065 - SUPER WESTERN, INC	45TST	EX-33@ C- SOIL-PETRO USTs	20.11	TN 45
	62 001065 - SUPER WESTERN, INC	57LIRA	EX-33@ C- SOIL-PETRO USTs	23.65	TN 46
	65 001065 - SUPER WESTERN, INC	M72PETERS	EX-33@ C- SOIL-PETRO USTs	20.97	TN 47
	66 001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTs	21.79	TN 48
	79 001065 - SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	22.76	TN 49
	83 001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	22.59	TN 50
,	90 001065 - SUPER WESTERN, INC	45TST	EX-33@ C- SOIL-PETRO USTs	23.07	TN 51
	99 001065 - SUPER WESTERN, INC	57LIRA	EX-33@ C- SOIL-PETRO USTs	22.29	TN 52
_ ,,_ ,,_ ,	00 001065 - SUPER WESTERN, INC	M72PETERS	EX-33@ C- SOIL-PETRO USTs	18.96	TN 53
	06 001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTs	19.23	TN 54
	16 001065 - SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	20.23	TN 55
- 11- 11-11	18 001065 - SUPER WESTERN, INC	45TST	EX-33@ C- SOIL-PETRO USTs	21.91	TN 56
	34 001065 - SUPER WESTERN, INC	57LIRA	EX-33@ C- SOIL-PETRO USTs	23.68	TN 57
	35 001065 - SUPER WESTERN, INC	M72PETERS	EX-33@ C- SOIL-PETRO USTs	22.22	TN 58
	37 001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTs	19.38	TN 59
	50 001065 - SUPER WESTERN, INC	45TST	EX-33@ C- SOIL-PETRO USTs	19.64	TN 60
	51 001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	19.85	TN 61
	52 001065 - SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	21.95	TN 62
	54 001065 - SUPER WESTERN, INC	M73PETERS	EX-33@ C- SOIL-PETRO USTs	18.46	TN 63
	60 001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTs	19.34	TN 64
	71 001065 - SUPER WESTERN, INC	23TNG	EX-33@ C- SOIL-PETRO USTs	18.34	TN 65
3 3 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	72 001065 - SUPER WESTERN, INC	57LIRA	EX-33@ C- SOIL-PETRO USTs	20.22	TN 66
	74 001065 - SUPER WESTERN, INC	58LJB	EX-33@ C- SOIL-PETRO USTs	20.02	TN 67
	78 001065 - SUPER WESTERN, INC	999	EX-33@ C- SOIL-PETRO USTs	19.87	TN 68
	80 001065 - SUPER WESTERN, INC	1827S&S	EX-33@ C- SOIL-PETRO USTs	19.05	TN 69
	87 001065 - SUPER WESTERN, INC	45TST	EX-33@ C- SOIL-PETRO USTs	19.05	TN 70
	88 001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	18.56	
	89 001065 - SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	19.06	
	91 001065 - SUPER WESTERN, INC	M73PETERS	EX-33@ C- SOIL-PETRO USTs	21.21	
	94 001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTs	20.50	
	07 001065 - SUPER WESTERN, INC	58LJB	EX-33@ C- SOIL-PETRO USTs	18.86	
	08 001065 - SUPER WESTERN, INC	23TNG	EX-33@ C- SOIL-PETRO USTs	18.94	
	11 001065 - SUPER WESTERN, INC	57LIRA	EX-33@ C- SOIL-PETRO USTs	17.87	
	12 001065 - SUPER WESTERN, INC	1827S&S	EX-33@ C- SOIL-PETRO USTs	18.19	
	14 001065 - SUPER WESTERN, INC	999	EX-33@ C- SOIL-PETRO USTs	18.11	
04/25/2013 1112	27 001065 - SUPER WESTERN, INC	45TST	EX-33@ C- SOIL-PETRO USTs	20.92	
	28 001065 - SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	20.73	
	29 001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	19.94	
	31 001065 - SUPER WESTERN, INC	M73PETERS	EX-33@ C- SOIL-PETRO USTs	19.14	
	32 001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTs	17:87	
	43 001065 - SUPER WESTERN, INC	58LJB	EX-33@ C- SOIL-PETRO USTs	19.99	
	46 001065 - SUPER WESTERN, INC	23TNG	EX-33@ C- SOIL-PETRO USTs	19.59	TN 86

Date	Scale Ticket #	Customer	Tour and a dd	**		
04/25/2013	1112150	001065 - SUPER WESTERN, INC	Truck # 57LIRA	Material	Tons	Loads
04/25/2013	1112151	001065 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO USTs	19.90 TN	87
04/25/2013	1112155	001065 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO USTs	20.42 TN	88
04/25/2013	1112158	001065 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO USTs	23.87 TN	89
04/25/2013	1112150	001065 - SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	20.26 TN	90
04/25/2013	1112161	001065 - SUPER WESTERN, INC	M73PETERS	EX-33@ C- SOIL-PETRO USTs	22.02 TN	91
04/25/2013	1112165	001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	19.56 TN	92
04/25/2013	1112168	001065 - SUPER WESTERN, INC	45TST	EX-33@ C- SOIL-PETRO USTs	20.80 TN	93
04/25/2013	1112180	001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTs	19.60 TN	94
04/25/2013	1112184	001065 - SUPER WESTERN, INC	58LJB	EX-33@ C- SOIL-PETRO USTs	20.93 TN	95
04/25/2013	1112185	001065 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO USTs	20.24 TN	96
04/25/2013	1112186	001065 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO USTs	20.19 TN	97
04/25/2013	1112180	001065 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO USTs	21.45 TN	98
04/25/2013	1112103	001065 - SUPER WESTERN, INC	1827S&S	EX-33@ C- SOIL-PETRO USTS	19.66 TN	99
04/25/2013	1112107	001005 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO USTs	21.37 TN	100
04/25/2013	1112137	001065 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO USTs	21.18 TN	101
04/25/2013	1112130	001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	22.52 TN	102
04/25/2013	1112200	001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTs	20.57 TN	103
04/25/2013	1112202	001065 - SUPER WESTERN, INC	45TST	EX-33@ C- SOIL-PETRO USTs	25.98 TN	103
04/25/2013	1112211	001065 - SUPER WESTERN, INC	58LJB	EX-33@ C- SOIL-PETRO USTs	21.62 TN	105
04/25/2013	1112220	001065 - SUPER WESTERN, INC	24HARPER	EX-33@ C- SOIL-PETRO USTs	23.80 TN	106
04/25/2013	1112220	001065 - SUPER WESTERN, INC	57LIRA	EX-33@ C- SOIL-PETRO USTs	21.94 TN	107
04/25/2013	1112228	001065 - SUPER WESTERN, INC	23TNG	EX-33@ C- SOIL-PETRO USTs	23.72 TN	
04/25/2013	1112233	001065 - SUPER WESTERN, INC	1827S&S	EX-33@ C- SOIL-PETRO USTs	21.50 TN	108
04/25/2013	1112234	001065 - SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	20.92 TN	109
04/25/2013	1112238	001065 - SUPER WESTERN, INC	M73PETERS	EX-33@ C- SOIL-PETRO USTs	23.37 TN	110
04/25/2013	1112239	001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	17.16 TN	111
04/25/2013	1112244	001065 - SUPER WESTERN, INC	M70PETERS	EX-33@ C- SOIL-PETRO USTs	18.72 TN	112
04/25/2013	1112245	001065 - SUPER WESTERN, INC	45TST	EX-33@ C- SOIL-PETRO USTs	23.76 TN	113
	1112260	001065 - SUPER WESTERN, INC	58LJB	EX-33@ C- SOIL-PETRO USTS	19.65 TN	114
04/25/2013 04/25/2013	1112262	001065 - SUPER WESTERN, INC	24HARPER	EX-33@ C- SOIL-PETRO USTS	23.92 TN	115
	11122/1	001065 - SUPER WESTERN, INC	57LIRA	EX-33@ C- SOIL-PETRO USTS		116
04/25/2013	1112274	001065 - SUPER WESTERN, INC	23TNG	EX-33@ C- SOIL-PETRO USTs	18.45 TN 21.60 TN	117
04/25/2013	1112279	001065 - SUPER WESTERN, INC	1827S&S	EX-33@ C- SOIL-PETRO USTS		118
04/25/2013	1112281	001065 - SUPER WESTERN, INC	135LEDENS	EX-33@ C- SOIL-PETRO USTs	17.43 TN	119
04/25/2013	1112284	001065 - SUPER WESTERN, INC	M73PETERS	EX-33@ C- SOIL-PETRO USTs	20.06 TN	120
04/25/2013	1112288	001065 - SUPER WESTERN, INC	ET1	EX-33@ C- SOIL-PETRO USTs	23.36 TN	121
04/25/2013	1112291	001065 - SUPER WESTERN INC.	M70PETERS	EX-33@ C- SOIL-PETRO USTs	19.92 TN	122
04/25/2013	1112295	001065 - SUPER WESTERN INC.	45TST	EX-33@ C- SOIL-PETRO USTs	20.83 TN	123
04/26/2013	1112395 (001065 - SUPER WESTERN INC.	29JT	EX-33@ C- SOIL-PETRO USTs	19.35 TN	124
04/26/2013	1112425 (001065 - SUPER WESTERN INC.	58LJB	EX-33@ C- SOIL-PETRO USTs	17.91 TN	125
04/26/2013	1112463 (001065 - SUPER WESTERN INC.	999	EX-33@ C- SOIL-PETRO USTs	22.37 TN	126
04/26/2013	1112468 (001065 - SUPER WESTERN INC.	29JT	EX-33@ C- SOIL-PETRO USTS	23.81 TN	127
04/26/2013	1112480 (001065 - SUPER WESTERN INC.	58LJB	EX-33@ C SOIL-PETRO USTS	17.53 TN	128
04/26/2013	1112495	001065 - SUPER WESTERN, INC	999	EX-33@ C- SOIL-PETRO USTs EX-33@ C- SOIL-PETRO USTs	23.30 TN	129 C
		01065 - SUPER WESTERM, INC.		A COUNTY OF THE STATE OF THE ST	23.73 TN	130
		SANGEROF SURSER MESTER NO		EX-27gl C- BOIL-PUTRIO LISTS		
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C. 6. 10. Other

04/26/2013 111/250 010665 SUPER WESTERN, INC 29JT EX.33@ C. SOIL-PETRO USTS 49.89 TN 13.9 04/27/2013 111/250 010665 SUPER WESTERN, INC 39JT EX.33@ C. SOIL-PETRO USTS 16.65 TN 13.9 04/27/2013 111/250 010665 SUPER WESTERN, INC 30/27/2013 111/250 010665 SUPER WESTERN, INC 30/27/2013 111/250 010665 SUPER WESTERN, INC 40/27/2013 111/2514 010665 SUPER WESTERN, INC 40/27/2013 111/2516 010665 SUPER WESTERN, INC 40/27/2013 111/2516 010665 SUPER WESTERN, INC 40/27/2013 111/2518 010665 SUPER WESTERN, INC 40/27/2013 111/2519 010665 SUPER WESTERN, INC 40/27/2013 111/2519 010665 SUPER WESTERN, INC 40/27/2013 111/2521 010665 SUPER WESTERN, INC 40/27/2013 111/2520 010665 SUPER WESTERN, INC 40/27/2013 111/2530 010665 SUPER WESTERN, INC 40/27/2013 111/2540 01066	Date	Scale Ticket #	Customer	Truck #	Material	Tons		Loads
042772013 1112500 01065 - SUPER WESTERN, INC 29.17 E.33@ C. SOIL-PETRO USTS 20.80 TN 133 042772013 1112504 01065 - SUPER WESTERN, INC 58LJB E.33@ C. SOIL-PETRO USTS 17.05 TN 134 042772013 1112515 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 17.05 TN 134 042772013 1112518 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 24.05 TN 135 042772013 1112519 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 24.05 TN 135 042772013 1112519 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 24.05 TN 136 042772013 1112529 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 24.05 TN 137 042772013 1112520 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 24.05 TN 138 042772013 1112520 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112531 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112531 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112535 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112540 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112540 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112540 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112540 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112540 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112551 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112551 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112551 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112551 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112551 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140 042772013 1112551 01065 - SUPER WESTERN, INC 68LJB E.33@ C. SOIL-PETRO USTS 27.07 TN 140	04/26/2013	1112496	001065 - SUPER WESTERN, INC				TN	
04/27/2013 1112504 001065 SUPER WESTERN, INC 04/27/2013 1112514 001065 SUPER WESTERN, INC 04/27/2013 1112514 001065 SUPER WESTERN, INC 04/27/2013 1112519 001065 SUPER WESTERN, INC 04/27/2013 1112519 001065 SUPER WESTERN, INC 04/27/2013 1112521 001065 SUPER WESTERN, INC 04/27/2013 1112520 001065 SUPER WESTERN, INC 04/27/2013 1112521 001065 SUPER WESTERN, INC 04/27/2013 1112520 00	04/27/2013	1112500	001065 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO LISTS			
0427/2013 1112514 001066 - SUPER WESTERN, INC 0407L 2230PL 25 SUPER WESTERN, INC 0427/2013 1112515 001065 - SUPER WESTERN, INC 0427/2013 1112518 001065 - SUPER WESTERN, INC 0427/2013 1112518 001065 - SUPER WESTERN, INC 0427/2013 1112519 001065 - SUPER WESTERN, INC 0427/2013 111252 001065 - SUPER WESTERN, INC 0427/2013 111253 001065 - SUPER WESTERN, INC 0427/2013 111253 001065 - SUPER WESTERN, INC 0506/2013 111252 001065 - SUPER WESTERN, INC 0506/2013 111253 001065 - SUPER WESTERN, INC 0506/2013 111255 001065 - SUPER WESTERN, INC 0506/2013 111357 001065 - SUPER WESTERN, INC 0506/2013 111357 001065 - SUPER WESTERN, INC 0506/2013 111357 001065 - SUPER WESTERN, INC 0506/2013 1113580 001065 - SUPER WESTERN, INC 0506/2013 111	04/27/2013	1112501	001065 - SUPER WESTERN, INC	M73PETERS	EX-33@ C- SOII -PETRO LISTS			
042772013 1112515 001065 - SUPER WESTERN, INC 042772013 1112516 001065 - SUPER WESTERN, INC 042772013 1112519 001065 - SUPER WESTERN, INC 042772013 1112519 001065 - SUPER WESTERN, INC 042772013 1112529 001065 - SUPER WESTERN, INC 042772013 1112620 001065 - SUPER WESTERN, INC 042772013 1112630 001065 - SUPER WESTERN, INC 0407272013 111360 001065 - SUPER WESTERN, INC 0407272013	04/27/2013				The state of the s			
042772013 1112518 001066 - SUPER WESTERN, INC 042772013 1112519 001066 - SUPER WESTERN, INC 042772013 1112519 001066 - SUPER WESTERN, INC 042772013 1112521 001065 - SUPER WESTERN, INC 042772013 1112520 1001065 - SUPER WESTERN, INC 042772013 1112626 001065 - SUPER WESTERN, INC 042772013 1112626 001065 - SUPER WESTERN, INC 042772013 1112626 001065 - SUPER WESTERN, INC 042772013 1112536 001065 - SUPER WESTERN, INC 042772013 1112551 001065 - SUPER WESTERN, INC 0407272013 1112551 001065 - SUPER WESTERN, INC 0407272013 1112551 001065 - SUPER WESTERN, INC 0407272013 1112555 001065 - SUPER WESTERN, INC 0407272013 1112550 001065 - SUPER WESTERN, INC 0407272013 111250 001065 - SUPER WESTERN, INC 0407272013 111250 001065 - SUPER WESTERN, INC 04072								
04/27/2013 1112519 001065 - SUPER WESTERN, INC M76 EX-33@ C - SOIL-PETRO USTS 19.98 TN 138 04/27/2013 1112529 001065 - SUPER WESTERN, INC 29.1T EX-33@ C - SOIL-PETRO USTS 15.56 TN 139 04/27/2013 1112523 001065 - SUPER WESTERN, INC 29.1T EX-33@ C - SOIL-PETRO USTS 15.56 TN 140 04/27/2013 1112530 001065 - SUPER WESTERN, INC 29.1T EX-33@ C - SOIL-PETRO USTS 15.56 TN 140 04/27/2013 1112530 001065 - SUPER WESTERN, INC 29.1T EX-33@ C - SOIL-PETRO USTS 15.56 TN 140 04/27/2013 1112530 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 16.54 TN 141 04/27/2013 1112530 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 23.29 TN 143 04/27/2013 1112530 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 23.29 TN 144 04/27/2013 1112530 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 23.29 TN 144 04/27/2013 1112549 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 23.29 TN 147 04/27/2013 1112550 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 24.76 TN 146 04/27/2013 1112550 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 24.76 TN 147 04/27/2013 1112550 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 24.76 TN 148 04/27/2013 1112550 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 24.76 TN 148 04/27/2013 1112579 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 24.76 TN 148 04/27/2013 1113579 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 24.76 TN 148 04/27/2013 1113579 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 24.76 TN 150 05/06/2013 1113579 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 24.76 TN 151 05/06/2013 1113550 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 24.76 TN 155 05/06/2013 1113550 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 24.76 TN 157 05/06/2013 1113590 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 24.77 TN 155 05/06/2013 1113590 001065 - SUPER WESTERN, INC 20.1T EX-33@ C - SOIL-PETRO USTS 24.21 TN 156 05		1112515	001065 - SUPER WESTERN INC					
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05/06/2013 1113619 001065 - SUPER WESTERN, INC M1MORA EX-33@ C- SOIL-PETRO USTS 18.04 TN 167 05/06/2013 1113620 001065 - SUPER WESTERN, INC 48MALDONADO EX-33@ C- SOIL-PETRO USTS 22.03 TN 168 05/06/2013 1113621 001065 - SUPER WESTERN, INC 23SZADA EX-33@ C- SOIL-PETRO USTS 16.59 TN 169 05/06/2013 1113632 001065 - SUPER WESTERN, INC 43SZADA EX-33@ C- SOIL-PETRO USTS 21.28 TN 170 05/06/2013 1113638 001065 - SUPER WESTERN, INC 13SZADA EX-33@ C- SOIL-PETRO USTS 23.00 TN 171 05/06/2013 1113642 001065 - SUPER WESTERN, INC 2SZADA EX-33@ C- SOIL-PETRO USTS 20.17 TN 172 05/06/2013 1113642 001065 - SUPER WESTERN, INC 413SZADA EX-33@ C- SOIL-PETRO USTS 17.88 TN 173 05/06/2013 1113644 001065 - SUPER WESTERN, INC 12230PJS EX-33@ C- SOIL-PETRO USTS 21.95 TN 174	05/06/2013	1113614	001065 - SUPER WESTERN, INC	9533CELTIC	EX-33@ C- SOIL-PETRO USTs			104
05/06/2013 1113620 001065 - SUPER WESTERN, INC 48MALDONADO EX-33@ C- SOIL-PETRO USTS 22.03 TN 168 05/06/2013 1113621 001065 - SUPER WESTERN, INC 23SZADA EX-33@ C- SOIL-PETRO USTS 16.59 TN 169 05/06/2013 1113622 001065 - SUPER WESTERN, INC 43SZADA EX-33@ C- SOIL-PETRO USTS 21.28 TN 170 05/06/2013 1113638 001065 - SUPER WESTERN, INC 13SZADA EX-33@ C- SOIL-PETRO USTS 23.00 TN 171 05/06/2013 1113649 001065 - SUPER WESTERN, INC 2SZADA EX-33@ C- SOIL-PETRO USTS 20.17 TN 172 05/06/2013 1113644 001065 - SUPER WESTERN, INC 413SZADA EX-33@ C- SOIL-PETRO USTS 17.88 TN 173 05/06/2013 1113644 001065 - SUPER WESTERN, INC 12230PJS EX-33@ C- SOIL-PETRO USTS 21.95 TN 174	05/06/2013			M1MORA				
05/06/2013 1113621 001065 - SUPER WESTERN, INC 23SZADA EX-33@ C- SOIL-PETRO USTS 16.59 TN 169 05/06/2013 1113622 001065 - SUPER WESTERN, INC 43SZADA EX-33@ C- SOIL-PETRO USTS 21.28 TN 170 05/06/2013 1113638 001065 - SUPER WESTERN, INC 13SZADA EX-33@ C- SOIL-PETRO USTS 23.00 TN 171 05/06/2013 1113649 001065 - SUPER WESTERN, INC 2SZADA EX-33@ C- SOIL-PETRO USTS 20.17 TN 172 05/06/2013 1113644 001065 - SUPER WESTERN, INC 413SZADA EX-33@ C- SOIL-PETRO USTS 17.88 TN 173 05/06/2013 1113644 001065 - SUPER WESTERN, INC 12230PJS EX-33@ C- SOIL-PETRO USTS 21.95 TN 174	05/06/2013	1113620	001065 - SUPER WESTERN, INC	48MALDONADO				
05/06/2013 1113622 001065 - SUPER WESTERN, INC 43SZADA EX-33@ C- SOIL-PETRO USTS 21.28 TN 170 05/06/2013 1113638 001065 - SUPER WESTERN, INC 13SZADA EX-33@ C- SOIL-PETRO USTS 23.00 TN 171 05/06/2013 1113639 001065 - SUPER WESTERN, INC 2SZADA EX-33@ C- SOIL-PETRO USTS 20.17 TN 172 05/06/2013 1113642 001065 - SUPER WESTERN, INC 413SZADA EX-33@ C- SOIL-PETRO USTS 17.88 TN 173 05/06/2013 1113644 001065 - SUPER WESTERN, INC 12230PJS EX-33@ C- SOIL-PETRO USTS 21.95 TN 174	05/06/2013	1113621	001065 - SUPER WESTERN, INC	23SZADA				
05/06/2013 1113638 001065 - SUPER WESTERN, INC 13SZADA EX-33@ C- SOIL-PETRO USTs 23.00 TN 171 05/06/2013 1113639 001065 - SUPER WESTERN, INC 2SZADA EX-33@ C- SOIL-PETRO USTs 20.17 TN 172 05/06/2013 1113642 001065 - SUPER WESTERN, INC 413SZADA EX-33@ C- SOIL-PETRO USTs 17.88 TN 173 05/06/2013 1113644 001065 - SUPER WESTERN, INC 12230PJS EX-33@ C- SOIL-PETRO USTs 21.95 TN 174	05/06/2013	1113622	001065 - SUPER WESTERN, INC	43SZADA				
05/06/2013 1113639 001065 - SUPER WESTERN, INC 2SZADA EX-33@ C- SOIL-PETRO USTs 20.17 TN 172 05/06/2013 1113642 001065 - SUPER WESTERN, INC 413SZADA EX-33@ C- SOIL-PETRO USTs 17.88 TN 173 05/06/2013 1113644 001065 - SUPER WESTERN, INC 12230PJS EX-33@ C- SOIL-PETRO USTs 21.95 TN 174	05/06/2013			13SZADA				
05/06/2013 1113642 001065 - SUPER WESTERN, INC 413SZADA EX-33@ C- SOIL-PETRO USTs 17.88 TN 173 05/06/2013 1113644 001065 - SUPER WESTERN, INC 12230PJS EX-33@ C- SOIL-PETRO USTs 21.95 TN 174								
05/06/2013 1113644 001065 - SUPER WESTERN, INC 12230PJS EX-33@ C- SOIL-PETRO USTs 21.95 TN 174								
			Triple St Control St. Heller For Control St. Land St. Control S					
	2.20.50.13	1112330	00/1085 - SUPER WESTERN, INC.	4807SA	exemple his party in 1859.		11/2	
South Today & Printering Track & Track & Track		Scale Tielest II.	Customer	Truck #		Tons		45000

C. 6. 11. Other

Date	Scale Ticket #	Customer	Truck #	Material	Tons	1	.oads
05/06/2013	1113645	001065 - SUPER WESTERN, INC	9533CELTIC	EX-33@ C- SOIL-PETRO USTs	18.85		175
05/06/2013	1113646	001065 - SUPER WESTERN, INC	TG3	EX-33@ C- SOIL-PETRO USTs	19.83		176
05/06/2013		001065 - SUPER WESTERN, INC	02OUTDOOR	EX-33@ C- SOIL-PETRO USTs	21.55		177
05/06/2013		001065 - SUPER WESTERN, INC	M1MORA	EX-33@ C- SOIL-PETRO USTs	18.29		178
05/06/2013		001065 - SUPER WESTERN, INC	48MALDONADO	EX-33@ C- SOIL-PETRO USTs	17.28		179
05/06/2013		001065 - SUPER WESTERN, INC	43SZADA	EX-33@ C- SOIL-PETRO USTs	15.95		180
05/06/2013		001065 - SUPER WESTERN, INC	23SZADA	EX-33@ C- SOIL-PETRO USTs	16.92		181
05/06/2013		001065 - SUPER WESTERN, INC	2SZADA	EX-33@ C- SOIL-PETRO USTs	17.30		182
05/06/2013		001065 - SUPER WESTERN, INC	13SZADA	EX-33@ C- SOIL-PETRO USTs	18.55		183
05/06/2013		001065 - SUPER WESTERN, INC	413SZADA	EX-33@ C- SOIL-PETRO USTs	17.39		184
05/06/2013		001065 - SUPER WESTERN, INC	40RJ	EX-33@ C- SOIL-PETRO USTs	20.40		185
05/06/2013		001065 - SUPER WESTERN, INC	502MORALES	EX-33@ C- SOIL-PETRO USTs	17.72		186
05/06/2013		001065 - SUPER WESTERN, INC	02OUTDOOR	EX-33@ C- SOIL-PETRO USTs	15.12		
05/06/2013	1113697	001065 - SUPER WESTERN, INC	19BJP	EX-33@ C- SOIL-PETRO USTS	17.83		187
05/06/2013	1113701	001065 - SUPER WESTERN, INC	M1MORA	EX-33@ C- SOIL-PETRO USTS	16.85		188
05/06/2013	1113701	001065 - SUPER WESTERN, INC	2SZADA				189
05/06/2013	1113703	001065 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO USTS	19.69		190
05/06/2013		001065 - SUPER WESTERN, INC	13SZADA	EX-33@ C- SOIL-PETRO USTs	18.84		191
05/06/2013		001065 - SUPER WESTERN, INC	413SZADA	EX-33@ C- SOIL-PETRO USTs	16.85		192
05/06/2013		TO THE RESIDENCE OF THE PROPERTY OF THE PROPER	502MORALES	EX-33@ C- SOIL-PETRO USTs	17.93		193
		001065 - SUPER WESTERN, INC	40RJ	EX-33@ C- SOIL-PETRO USTs	18.91		194
05/06/2013		001065 - SUPER WESTERN, INC	02OUTDOOR	EX-33@ C- SOIL-PETRO USTs	19.91		195
05/06/2013		001065 - SUPER WESTERN, INC	12230PJS	EX-33@ C- SOIL-PETRO USTs	19.89		196
05/06/2013	1113730	001065 - SUPER WESTERN, INC	9533CELTIC	EX-33@ C- SOIL-PETRO USTs	21.40		197
05/06/2013	1113733	001065 - SUPER WESTERN, INC	19BJP	EX-33@ C- SOIL-PETRO USTs	21.66		198
05/06/2013	1113/34	001065 - SUPER WESTERN, INC	TG3	EX-33@ C- SOIL-PETRO USTs	18.86		199
05/06/2013	1113736	001065 - SUPER WESTERN, INC	M1MORA	EX-33@ C- SOIL-PETRO USTs	19.83		200
05/06/2013		001065 - SUPER WESTERN, INC	2SZADA	EX-33@ C- SOIL-PETRO USTs	18.22	TN	201
05/06/2013		001065 - SUPER WESTERN, INC	13SZADA	EX-33@ C- SOIL-PETRO USTs	20.81	TN	202
05/06/2013		001065 - SUPER WESTERN, INC	413SZADA	EX-33@ C- SOIL-PETRO USTs	18.24		203
05/06/2013	1113767	001065 - SUPER WESTERN, INC	502MORALES	EX-33@ C- SOIL-PETRO USTs	18.73		204
05/06/2013		001065 - SUPER WESTERN, INC	40RJ	EX-33@ C- SOIL-PETRO USTs	20.78	TN	205
05/06/2013		001065 - SUPER WESTERN, INC	02OUTDOOR	EX-33@ C- SOIL-PETRO USTs	20.59	TN	206
05/07/2013		001065 - SUPER WESTERN, INC	2SZADA	EX-33@ C- SOIL-PETRO USTs	23.62	TN	207
05/07/2013		001065 - SUPER WESTERN, INC	9533CELTIC	EX-33@ C- SOIL-PETRO USTs	26.97	TN	208
05/07/2013	1113793	001065 - SUPER WESTERN, INC	13SZADA	EX-33@ C- SOIL-PETRO USTs	22.39	TN	209
05/07/2013		001065 - SUPER WESTERN, INC	413SZADA	EX-33@ C- SOIL-PETRO USTs	17.10	TN	210
05/07/2013	1113801	001065 - SUPER WESTERN, INC	99CBE	EX-33@ C- SOIL-PETRO USTs	19.92	TN	211
05/07/2013	1113802	001065 - SUPER WESTERN, INC	M1MORA	EX-33@ C- SOIL-PETRO USTs	16.67	TN	212
05/07/2013	1113804	001065 - SUPER WESTERN, INC	48MALDONADO	EX-33@ C- SOIL-PETRO USTs	16.06		213
05/07/2013		001065 - SUPER WESTERN, INC	12230PJS	EX-33@ C- SOIL-PETRO USTs	19.92		214
05/07/2013	1113813	001065 - SUPER WESTERN, INC	23SZADA	EX-33@ C- SOIL-PETRO USTs	17.22	TN	215
05/07/2013	1113821	001065 - SUPER WESTERN, INC	999	EX-33@ C- SOIL-PETRO USTs	16.35	TN	216
05/07/2013	1113823	001065 - SUPER WESTERN, INC	13SZADA	EX-33@ C- SOIL-PETRO USTs	21.70	TN	217
05/07/2013		001065 - SUPER WESTERN, INC	413SZADA	EX-33@ C- SOIL-PETRO USTs	18.15		218
		egrage three ways to			10.00		TELEN

Date	Scale Ticket #	Customer	Truck #	Material	Tons		Loads
05/07/2013		001065 - SUPER WESTERN, INC	9533CELTIC	EX-33@ C- SOIL-PETRO USTs	17.71		219
05/07/2013		001065 - SUPER WESTERN, INC	40FRANKLIN	EX-33@ C- SOIL-PETRO USTs	22.77		220
05/07/2013	1113832	001065 - SUPER WESTERN, INC	99CBE	EX-33@ C- SOIL-PETRO USTs	19.51		221
05/07/2013	1113833	001065 - SUPER WESTERN, INC	241DJT	EX-33@ C- SOIL-PETRO USTs	18.84		222
05/07/2013	1113835	001065 - SUPER WESTERN, INC	48MALDONADO		15.09		223
05/07/2013	1113838	001065 - SUPER WESTERN, INC	M1MORA	EX-33@ C- SOIL-PETRO USTs	18.65		224
05/07/2013	1113839	001065 - SUPER WESTERN, INC	12230PJS	EX-33@ C- SOIL-PETRO USTs	18.61		225
05/07/2013	1113848	001065 - SUPER WESTERN, INC	23SZADA	EX-33@ C- SOIL-PETRO USTs	18.22	TN	226
05/07/2013		001065 - SUPER WESTERN, INC	04SZADA	EX-33@ C- SOIL-PETRO USTs	16.58	TN	227
05/07/2013		001065 - SUPER WESTERN, INC	13SZADA	EX-33@ C- SOIL-PETRO USTs	18.11	TN	228
05/07/2013		001065 - SUPER WESTERN, INC	413SZADA	EX-33@ C- SOIL-PETRO USTs	15.51	TN	229
05/07/2013	1113865	001065 - SUPER WESTERN, INC	241DJT	EX-33@ C- SOIL-PETRO USTs	16.47	TN	230
05/07/2013		001065 - SUPER WESTERN, INC	9533CELTIC	EX-33@ C- SOIL-PETRO USTs	17.65	TN	231
05/07/2013		001065 - SUPER WESTERN, INC	40FRANKLIN	EX-33@ C- SOIL-PETRO USTs	20.75	TN	232
05/07/2013	1113873	001065 - SUPER WESTERN, INC	99CBE	EX-33@ C- SOIL-PETRO USTs	16.95	TN	233
05/07/2013		001065 - SUPER WESTERN, INC	M1MORA	EX-33@ C- SOIL-PETRO USTs	18.90	TN	234
05/07/2013		001065 - SUPER WESTERN, INC	48MALDONADO	EX-33@ C- SOIL-PETRO USTs	17.51		235
05/07/2013		001065 - SUPER WESTERN, INC	12230PJS	EX-33@ C- SOIL-PETRO USTs	18.89		236
05/07/2013	1113887	001065 - SUPER WESTERN, INC	2SZADA	EX-33@ C- SOIL-PETRO USTs	19.84		237
05/07/2013	1113890	001065 - SUPER WESTERN, INC	23SZADA	EX-33@ C- SOIL-PETRO USTs	16.31	TN	238
05/07/2013	1113894	001065 - SUPER WESTERN, INC	13SZADA	EX-33@ C- SOIL-PETRO USTs	18.82	TN	239
05/07/2013		001065 - SUPER WESTERN, INC	04SZADA	EX-33@ C- SOIL-PETRO USTs	18.58	TN	240
05/07/2013	1113898	001065 - SUPER WESTERN, INC	413SZADA	EX-33@ C- SOIL-PETRO USTs	15.19		241
05/07/2013	1113899	001065 - SUPER WESTERN, INC	38FRANKLIN	EX-33@ C- SOIL-PETRO USTs	18.46	TN	242
05/07/2013	1113903	001065 - SUPER WESTERN, INC	9533CELTIC	EX-33@ C- SOIL-PETRO USTs	16.28		243
05/07/2013		001065 - SUPER WESTERN, INC	241DJT	EX-33@ C- SOIL-PETRO USTs	17.96	TN	244
05/07/2013		001065 - SUPER WESTERN, INC	40FRANKLIN	EX-33@ C- SOIL-PETRO USTs	17.72	TN	245
05/07/2013		001065 - SUPER WESTERN, INC	99CBE	EX-33@ C- SOIL-PETRO USTs	16.94	TN	246
05/07/2013		001065 - SUPER WESTERN, INC	48MALDONADO	EX-33@ C- SOIL-PETRO USTs	15.92	TN	247
05/07/2013		001065 - SUPER WESTERN, INC	M1MORA	EX-33@ C- SOIL-PETRO USTs	15.07	TN	248
05/07/2013		001065 - SUPER WESTERN, INC	12230PJS	EX-33@ C- SOIL-PETRO USTs	18.33	TN	249
05/07/2013		001065 - SUPER WESTERN, INC	2SZADA	EX-33@ C- SOIL-PETRO USTs	17.42	TN	250
05/07/2013	1113923	001065 - SUPER WESTERN, INC	23SZADA	EX-33@ C- SOIL-PETRO USTs	19.08	TN	251
05/07/2013	1113927	001065 - SUPER WESTERN, INC	13SZADA	EX-33@ C- SOIL-PETRO USTs	18.99	TN	252
05/07/2013	1113929	001065 - SUPER WESTERN, INC	38FRANKLIN	EX-33@ C- SOIL-PETRO USTs	17.08	TN	253
05/07/2013		001065 - SUPER WESTERN, INC	413SZADA	EX-33@ C- SOIL-PETRO USTs	18.02	TN	254
05/07/2013		001065 - SUPER WESTERN, INC	9533CELTIC	EX-33@ C- SOIL-PETRO USTs	15.80	TN	255
05/07/2013		001065 - SUPER WESTERN, INC	04SZADA	EX-33@ C- SOIL-PETRO USTs	18.18	TN	256
05/07/2013		001065 - SUPER WESTERN, INC	99CBE	EX-33@ C- SOIL-PETRO USTs	20.25		257
05/07/2013		001065 - SUPER WESTERN, INC	40FRANKLIN	EX-33@ C- SOIL-PETRO USTs	15.62	TN	258
05/07/2013		001065 - SUPER WESTERN, INC	241DJT	EX-33@ C- SOIL-PETRO USTs		TN	259
05/07/2013		001065 - SUPER WESTERN, INC	48MALDONADO	EX-33@ C- SOIL-PETRO USTs	17.19	TN	260
05/07/2013		001065 - SUPER WESTERN, INC	M1MORA	EX-33@ C- SOIL-PETRO USTs		TN	261
05/07/2013	1113958	001065 - SUPER WESTERN, INC	12230PJS	EX-33@ C- SOIL-PETRO USTs	16.06	TN	262

²⁶² C. 6. 13. Other

Date	Scale Ticket#	Customer	Truck #	Material	Tons	Loads
05/07/2013		001065 - SUPER WESTERN, INC	2SZADA	EX-33@ C- SOIL-PETRO USTs	16.37 TN	263
05/07/2013		001065 - SUPER WESTERN, INC	13SZADA	EX-33@ C- SOIL-PETRO USTs	16.91 TN	264
05/07/2013		001065 - SUPER WESTERN, INC	23SZADA	EX-33@ C- SOIL-PETRO USTs	18.75 TN	265
05/07/2013		001065 - SUPER WESTERN, INC	38FRANKLIN	EX-33@ C- SOIL-PETRO USTs	17.09 TN	266
05/07/2013	Local Laboratoria Control	001065 - SUPER WESTERN, INC	413SZADA	EX-33@ C- SOIL-PETRO USTs	19.60 TN	267
05/07/2013		001065 - SUPER WESTERN, INC	9533CELTIC	EX-33@ C- SOIL-PETRO USTs	12.90 TN	268
05/07/2013	12 L L 1996 365 I	001065 - SUPER WESTERN, INC	04SZADA	EX-33@ C- SOIL-PETRO USTs	14.91 TN	269
05/07/2013		001065 - SUPER WESTERN, INC	99CBE	EX-33@ C- SOIL-PETRO USTs	17.89 TN	270
05/07/2013		001065 - SUPER WESTERN, INC	40FRANKLIN	EX-33@ C- SOIL-PETRO USTs	18.18 TN	271
05/07/2013	Control of the Contro	001065 - SUPER WESTERN, INC	48MALDONADO	EX-33@ C- SOIL-PETRO USTs	19.01 TN	272
05/07/2013	U Deben red	001065 - SUPER WESTERN, INC	M1MORA	EX-33@ C- SOIL-PETRO USTs	18.03 TN	273
05/07/2013	V. J. (1987)	001065 - SUPER WESTERN, INC	241DJT	EX-33@ C- SOIL-PETRO USTs	16.91 TN	274
05/07/2013		001065 - SUPER WESTERN, INC	12230PJS	EX-33@ C- SOIL-PETRO USTs	20.01 TN	275
05/07/2013	U U U U U U U U U U U U U U U U U U U	001065 - SUPER WESTERN, INC	2SZADA	EX-33@ C- SOIL-PETRO USTs	20.33 TN	276
05/07/2013	701904754	001065 - SUPER WESTERN, INC	13SZADA	EX-33@ C- SOIL-PETRO USTs	21.53 TN	277
05/07/2013	TO UNITED STATE	001065 - SUPER WESTERN, INC	23SZADA	EX-33@ C- SOIL-PETRO USTs	21.69 TN	278
05/07/2013		001065 - SUPER WESTERN, INC	38FRANKLIN	EX-33@ C- SOIL-PETRO USTs	17.98 TN	279
05/08/2013	"A (1) ("HIBIGALT-HIBI	001065 - SUPER WESTERN, INC	2SZADA	EX-33@ C- SOIL-PETRO USTs	17.50 TN	280
05/08/2013	The State of the S	001065 - SUPER WESTERN, INC	9533CELTIC	EX-33@ C- SOIL-PETRO USTs	19.40 TN	281
05/08/2013		001065 - SUPER WESTERN, INC	99CBE	EX-33@ C- SOIL-PETRO USTs	17.93 TN	282
05/08/2013		001065 - SUPER WESTERN, INC	23SZADA	EX-33@ C- SOIL-PETRO USTs	19.13 TN	283
05/08/2013	2.00334.00	001065 - SUPER WESTERN, INC	413SZADA	EX-33@ C- SOIL-PETRO USTs	17.56 TN	284
05/08/2013	100	001065 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO USTs	18.82 TN	285
05/08/2013		001065 - SUPER WESTERN, INC	120BRADLEY	EX-33@ C- SOIL-PETRO USTs	19.07 TN	286
05/08/2013		001065 - SUPER WESTERN, INC	202AUNTIDIS	EX-33@ C- SOIL-PETRO USTs	19.13 TN	287
05/08/2013		001065 - SUPER WESTERN, INC	2SZADA	EX-33@ C- SOIL-PETRO USTs	17.90 TN	288
	1 105-212	001065 - SUPER WESTERN, INC	9533CELTIC	EX-33@ C- SOIL-PETRO USTs	17.28 TN	289
05/08/2013		001065 - SUPER WESTERN, INC	99CBE	EX-33@ C- SOIL-PETRO USTs	20.61 TN	290
05/08/2013		001065 - SUPER WESTERN, INC	23SZADA	EX-33@ C- SOIL-PETRO USTs	15.43 TN	291
05/08/2013		001065 - SUPER WESTERN, INC	413SZADA	EX-33@ C- SOIL-PETRO USTs	16.61 TN	292
05/08/2013	15.1395-195	001065 - SUPER WESTERN, INC	202AUNTIDIS	EX-33@ C- SOIL-PETRO USTs	23.13 TN	293
05/08/2013	939111111111111	001065 - SUPER WESTERN, INC	12230PJS	EX-33@ C- SOIL-PETRO USTs	20.23 TN	294
05/08/2013		001065 - SUPER WESTERN, INC	TG3	EX-33@ C- SOIL-PETRO USTs	18.21 TN	295
05/08/2013		001065 - SUPER WESTERN, INC	10674PJS	EX-33@ C- SOIL-PETRO USTs	18.69 TN	296
05/08/2013			241DJT	EX-33@ C- SOIL-PETRO USTs	17.26 TN	297
05/10/2013		001065 - SUPER WESTERN, INC	40FRANKLIN	EX-33@ C- SOIL-PETRO USTs	18.82 TN	298
05/10/2013	1,13,4,5,116	001065 - SUPER WESTERN, INC	13SZADA	EX-33@ C- SOIL-PETRO USTs	16.19 TN	299
05/10/2013		001065 - SUPER WESTERN, INC		EX-33@ C- SOIL-PETRO USTS	16.93 TN	300
05/10/2013	#404090904.c	001065 - SUPER WESTERN, INC	12230PJS		17.77 TN	301
05/10/2013	11.1.1.0.0.0.1.1.1	001065 - SUPER WESTERN, INC	34BABS	EX-33@ C- SOIL-PETRO USTS	16.27 TN	302
05/10/2013	474 (878)	001065 - SUPER WESTERN, INC	00SZADA	EX-33@ C- SOIL-PETRO USTS	17.74 TN	303
05/10/2013	4.4534.52	001065 - SUPER WESTERN, INC	M1MORA	EX-33@ C- SOIL-PETRO USTS	16.91 TN	303
05/10/2013	0.00 T 7.999 9.00	001065 - SUPER WESTERN, INC	9533CELTIC	EX-33@ C- SOIL-PETRO USTS	16.34 TN	304
05/10/2013	19 4 9 9 9 1	001065 - SUPER WESTERN, INC	TG3	EX-33@ C- SOIL-PETRO USTs EX-33@ C- SOIL-PETRO USTs	16.29 TN	305
05/10/2013	1114442	001065 - SUPER WESTERN, INC	35FRANKLIN	EX-33@ C- SUIL-FETRO USTS	10,29 111	300
			PRINTED PLANS AS A COURT OF			

TWICK #

C. 6. 14. Other

Date	Scale Ticket #	Customer	Truck #	Material	Tons		Loads
05/10/2013		001065 - SUPER WESTERN, INC	36FRANKLIN	EX-33@ C- SOIL-PETRO USTs	16.81	TN	307
05/10/2013	1114448	001065 - SUPER WESTERN, INC	41STS	EX-33@ C- SOIL-PETRO USTs	16.69		308
05/10/2013	1114449	001065 - SUPER WESTERN, INC	10674PJS	EX-33@ C- SOIL-PETRO USTs	13.68		309
05/10/2013		001065 - SUPER WESTERN, INC	166JCL	EX-33@ C- SOIL-PETRO USTs	17.48		310
05/10/2013	1114453	001065 - SUPER WESTERN, INC	03OUTDOOR	EX-33@ C- SOIL-PETRO USTs	15.86		311
05/10/2013	1114454	001065 - SUPER WESTERN, INC	39FRANKLIN	EX-33@ C- SOIL-PETRO USTs	16.07		312
05/10/2013		001065 - SUPER WESTERN, INC	31STS	EX-33@ C- SOIL-PETRO USTs	14.64		313
05/10/2013	1114461	001065 - SUPER WESTERN, INC	37FRANKLIN	EX-33@ C- SOIL-PETRO USTs	15.91		314
05/10/2013	1114463	001065 - SUPER WESTERN, INC	999	EX-33@ C- SOIL-PETRO USTs	15.68		315
05/10/2013	1114466	001065 - SUPER WESTERN, INC	418STS	EX-33@ C- SOIL-PETRO USTs	16.21		316
05/10/2013	1114469	001065 - SUPER WESTERN, INC	999	EX-33@ C- SOIL-PETRO USTs	15.62		317
05/10/2013	the second second second	001065 - SUPER WESTERN, INC	120BRADLEY	EX-33@ C- SOIL-PETRO USTs	16.64		318
05/10/2013		001065 - SUPER WESTERN, INC	241DJT	EX-33@ C- SOIL-PETRO USTs	17.33		319
05/10/2013	1114501	001065 - SUPER WESTERN, INC	39FRANKLIN	EX-33@ C- SOIL-PETRO USTs	14.22		320
05/10/2013		001065 - SUPER WESTERN, INC	37FRANKLIN	EX-33@ C- SOIL-PETRO USTs	14.83		321
05/10/2013	11.11.22.22	001065 - SUPER WESTERN, INC	34BABS	EX-33@ C- SOIL-PETRO USTs	10.20		322
05/10/2013	1114513	001065 - SUPER WESTERN, INC	40FRANKLIN	EX-33@ C- SOIL-PETRO USTs	15.99		323
05/10/2013	1114514	001065 - SUPER WESTERN, INC	36FRANKLIN	EX-33@ C- SOIL-PETRO USTs	14.50		324
05/10/2013		001065 - SUPER WESTERN, INC	17ZECHZER	EX-33@ C- SOIL-PETRO USTs	15.29		325
05/10/2013		001065 - SUPER WESTERN, INC	120BRADLEY	EX-33@ C- SOIL-PETRO USTs	16.14		326
05/10/2013	1114532	001065 - SUPER WESTERN, INC	39FRANKLIN	EX-33@ C- SOIL-PETRO USTs	12.43		327
05/10/2013	1114534	001065 - SUPER WESTERN, INC	241DJT	EX-33@ C- SOIL-PETRO USTs	13.48		328
05/10/2013	1114541	001065 - SUPER WESTERN, INC	37FRANKLIN	EX-33@ C- SOIL-PETRO USTs	16.70		329
05/10/2013		001065 - SUPER WESTERN, INC	40FRANKLIN	EX-33@ C- SOIL-PETRO USTs	13.53		330
05/10/2013		001065 - SUPER WESTERN, INC	34BABS	EX-33@ C- SOIL-PETRO USTs	12.42		331
05/10/2013	1114551	001065 - SUPER WESTERN, INC	36FRANKLIN	EX-33@ C- SOIL-PETRO USTs	14.69		332
05/10/2013		001065 - SUPER WESTERN, INC	17ZECHZER	EX-33@ C- SOIL-PETRO USTs	13.90		333
05/10/2013		001065 - SUPER WESTERN, INC	120BRADLEY	EX-33@ C- SOIL-PETRO USTs	13.15		334
05/10/2013		001065 - SUPER WESTERN, INC	39FRANKLIN	EX-33@ C- SOIL-PETRO USTs	13.05		335
05/10/2013		001065 - SUPER WESTERN, INC	241DJT	EX-33@ C- SOIL-PETRO USTs	11.57		336
05/10/2013	1114583	001065 - SUPER WESTERN, INC	37FRANKLIN	EX-33@ C- SOIL-PETRO USTs	19.03		337
05/10/2013		001065 - SUPER WESTERN, INC	40FRANKLIN	EX-33@ C- SOIL-PETRO USTs	14.48		338
05/10/2013		001065 - SUPER WESTERN, INC	34BABS	EX-33@ C- SOIL-PETRO USTs	13.26		339
05/10/2013		001065 - SUPER WESTERN, INC	36FRANKLIN	EX-33@ C- SOIL-PETRO USTs	12.71		340
05/10/2013		001065 - SUPER WESTERN, INC	17ZECHZER	EX-33@ C- SOIL-PETRO USTs	13.06		341
05/10/2013	1114597	001065 - SUPER WESTERN, INC	120BRADLEY	EX-33@ C- SOIL-PETRO USTs	13.85		342
05/11/2013		001065 - SUPER WESTERN, INC	41STS	EX-33@ C- SOIL-PETRO USTs	15.86		343
05/11/2013		001065 - SUPER WESTERN, INC	34BABS	EX-33@ C- SOIL-PETRO USTs	11.92		344
05/11/2013		001065 - SUPER WESTERN, INC	166JCL	EX-33@ C- SOIL-PETRO USTs	15.15		345
05/11/2013		001065 - SUPER WESTERN, INC	31YAKO	EX-33@ C- SOIL-PETRO USTs	16.01		346
05/11/2013	1114611	001065 - SUPER WESTERN, INC	999	EX-33@ C- SOIL-PETRO USTs	18.21		347
05/11/2013		001065 - SUPER WESTERN, INC	23SZADA	EX-33@ C- SOIL-PETRO USTs	13.61		348 349
05/11/2013		001065 - SUPER WESTERN, INC	413SZADA	EX-33@ C- SOIL-PETRO USTs	13.14		
05/11/2013	1114624	001065 - SUPER WESTERN, INC	40SZADA	EX-33@ C- SOIL-PETRO USTs	17.27	IIV	350

Table of Contents D. Maintenance Plan and Photographs Zoo-Bliffert Case Closure – GIS Registry

- D. 1. Descriptions of maintenance action(s)
- D. 2. Location map
- D. 3. Photographs
- D. 4. Inspection log

A maintenance plan and photographs is/are not applicable or needed for Zoo-Bliffert Case Closure - GIS Registry.

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

A maintenance plan and photographs is/are not applicable or needed for Zoo-Bliffert Case Closure - GIS Registry.

Table of Contents E. Monitoring Well Information Zoo-Bliffert Case Closure – GIS Registry

- E. 1. Monitoring Well Information
 - E. 1. 1. Monitoring Well Information- Figure from TRC 2013
 - E. 1. 2. E. 1. 11. Monitoring Well Not Abandoned (Missing) Law Engineering

Denostra ant of Matricel Denostrates	id Waste Haz. Waste	□ Wastewater □ und Tanks □ Other □	MONITORING WELL CONSTR Form 4400-113A	UCTION lev. 4-90
Facility/Project Name 200 - BUFFERT SITE	Local Grid Location of t.	Well	Well Name BI - MWI	
			Wis Unique Well Number DNR Well	Number
	Grid Origin Location Lat. 43 2 0 7	Long. 88 2 18 or		
The of well Water Table Observation Well 2011	St. Plane	_ ft. N, ft. E.	Date Well Installed $\frac{1}{m} \frac{1}{m} \frac{25}{d} \frac{9}{y}$	3
Piezometer 12 Distance Well Is From Waste/Source Boundary	Section Location of Was	te/Source	m m d d y Well Installed By: (Person's Name and	(Firm)
50 ft.	1/4 of \www.1/4 of Se Location of Well Relative	02-1, 11 N, Kb21_ W.	SAUTER DRILLING	
Is Well A Point of Enforcement Std. Application? Yes No	u D Upgradient d Downgradient	s 🔲 Sidegradient	Rick KRIOFSKE	
	ft. MSL	1. Cap and lock?		□ No
	ft. MSL	2. Protective cov		: _
	. Mei	a. Inside diama b. Length:	eter: _	in. . ft.
	i. MSL	c. Material:	Steel	
D. Surface seal, bottom ft. MSL or	fr.	F	LUSH MOUNT Other	
12. USCS classification of soil near screen:		d. Additional	•	□ No
GP GM GC GW SW G SM SC G ML MH GCL G		If yes, desc	ribe:	
Bedrock D		3. Surface seal:	Bentonite	
13. Sieve analysis attached?	v₀ 🐰		Concrete Other	
14. Drilling method used: Rotary	1 600	4. Material between	een well casing and protective pipe:	-
Hollow Stem Auger	1 100		Bentonite	□ 30
Other 🗖	🐰		Annular space seal	
14 D 5 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	. l 🐰	—	Other	270,2770
15. Drilling fluid used: Water □ 02 Air □ Drilling Mud □ 03 None ☒	1 1000	5. Annular space	seal: a. Granular Bentonite	
Dimmignated 103 Mark 5	´´	bLbs/g	al mud weight Bentonite-sand shurry	
16. Drilling additives used? Yes I	4o 👹	cLDS/g	al mud weight Bentonite slurry ntonite Bentonite-cement grout	5 0
·			Ft 3 volume added for any of the above	_ 50
Describe	— I 🕷	f. How instal	led: Tremie	-
17. Source of water (attach analysis):			Tremie pumped	
			Gravity	
The Mel of	. 🕷	6. Bentonite seal	: a. Bentonite granules □3/8 in. □ 1/2 in. Bentonite pellets	_
E. Bentonite seal, topQ . ft. MSL or	-·- ··~	b. U1/4 III.	Other	
F. Fine sand, top ft. MSL or	- ·- ft.		erial: Manufacturer, product name & m	
G. Filter pack, top L. Q ft. MSL or	ft.	a. b. Volume ad	ded ft ³	_ aaaa
			aterial: Manufacturer, product name and	mesh size
H. Screen joint, top 2 .0 ft. MSL or	tr		TINING CO.	_ 🕮
The second secon		b. Volume ad	ried <u>\$ \$\$.5 ft</u> ³ Flush threaded PVC schedule 40	23
I. Well bottom ft. MSL or	""	9. Well casing:	Flush threaded PVC schedule 80	☐ 24
J. Filter pack, bottom120 ft. MSL or	ft.		Other	
		10. Screen materi		
K. Borehole, bottom 12 0 ft. MSL or	- ·- ft.	a. Screen typ	e: Factory cut Continuous slot	
L. Borehole, diameter _ & D in.			Other	
		b. Manufactur	er TOHNSON	
M. O.D. well casing 2.37 in.		c. Slot size:		. <u>/ O</u> in. LO . Oft.
		d. Slotted len		□ 14
N. I.D. well casing _2.0 67 in.		11. Dackini mater	other	4007006
I hereby certify that the information on this	form is true and c	orrect to the best of my l	knowledge.	
Signature 6	Firm			
ease complete both sides of this form and return to	he appropriate DND = 60	ENGINGERING	as required by the 144 147 and 160 W	is State
and ch NR 141. Wis Ad Code. In accordance with	ch.144. Wis Stats., failur	e to file this form may result in	a fortesture of not less than \$10, nor mo	re than
\$5000 for each day of violation. In accordance with c	n. 147, wis. Stats., failu	te to the this form may result in	a fortesture of not more than \$10,000 to	i cacii

E.1.2 Monitoring Well Not Abandoned (Missing)

Route to:	Solid Waste 🔲 Haz. Wast onse & Repair 🗖 Underg	te 🔲 Wastewater 🔲 ground Tanks 🖾 Othe	= 0	
	County Name		Well Name	
Facility/Project Name		WAUKEE	MW-1	
MIL WAUKEE LOUNTY Zoo BL Facility License, Permit or Monitoring Number	County Code	Wis Unique Well No		l Number
Facility License, Fernitt of Worldwing Tunion	_ 41_			
1. Can this well be purged dry?	Ø(Yes □ No	11. Depth to Water	Before Development	After Development
Well development method surged with bailer and bailed surged with bailer and pumped	□ 41 □ 61	(from top of well casing)	a4.05ft.	
surged with block and bailed surged with block and pumped	□ 42 □ 62	Date	$b = \frac{1}{m} \frac{1}{m} \frac{27}{d} \frac{93}{d}$	$\frac{1}{m} \frac{29}{4} \frac{93}{y}$
surged with block, bailed and pumped compressed air	70 20 210	Time	c. 13:45 p.m.	11:25 p.m.
bailed only pumped only pumped slowly	51 50	12. Sediment in well bottom	inches	inches
Other	. 🗖 🖄	13. Water clarity	Clear 10 Turbid 12 15	Clear 20 Turbid 25
3. Time spent developing well	<u>(</u>		(Describe)	(Describe)
4. Depth of well (from top of well casisng)	ft.			
5. Inside diameter of well	_2.00 in.			
 Volume of water in filter pack and well casing 	<u>+</u> 97gal.	Fill in if drilling flu	ids were used and well is	at solid waste facility:
7. Volume of water removed from well	<u> </u>	14. Total suspended	mg	/\ mg/l
8. Volume of water added (if any)	<u>()</u> gal.	solid s		/\mg/\
9. Source of water added		15. COD	mg	/I mg/I
10. Analysis performed on water added? (If yes, attach results)	☐ Yes ☐ No	•		
16. Additional comments on development:	-	•		
•		•		•
			at the charge information i	s true and correct to the best
Well developed by: Person's Name and Firm	i	of my knowledge	at the acove intolliation i	o and did contest to an
Name: MICHAGI OLSEN		Signature:		
Firm: LAW FALGINGERING	INC	Print Initials: _		
		Firm:		

Department of Natural Pagouroge	id Waste Haz. Waste	☐ Wastewater ☐ ound Tanks ☐ Other ☐	MONITORING WELL C Form 4400-113A	CONSTRUCTION Rev. 4-90
Facility/Project Name	Local Grid Location of		Well Name B5 Mw2	
Facility License, Permit or Monitoring Number	Grid Origin Location	7 Long. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Wis. Unique Wall Number D	NR Well Number
Type of Well Water Table Observation Well ⊠ 11	St. Plane	\mathcal{L} Long. \mathcal{L} \mathcal{L} or \mathcal{L} ft. N, \mathcal{L} ft. E.	Date Well Installed	25163
Piezometer 12 Distance Well Is From Waste/Source Boundary	Section Location of Wa	ste/Source		25/ <u>5</u> 3
50 ft.	1/4 of \(\frac{1}{2} \overline{1} \rightarrow \frac{1}{4} \) of Solution of Well Relati	ec 29, T. 7 N, R 2/ W.	SAUTER DRILL	•
Is Well A Point of Enforcement Std. Application? Yes No	u Upgradient d Downgradient	s 🔯 Sidegradient	Rick KRIOFS	
	ft. MSL	1. Cap and lock?	}	☐ Yes ☐ No
B. Well casing, top elevation f	t. MSL	2. Protective cov		in
C. Land surface elevation	t. MSL	b. Length:	,	fr
D. Surface seal, bottom ft. MSL or	ft.	c. Material:		Steel 🔲 04
12. USCS classification of soil near screen:		d. Additional	FLUSH MOUNT protection?	Other 🚨 🏬
GP GM GC GW SW SW SW SM SC ML MH CL G		I IX	лibe:	·
Bedrock 🗆	I	3. Surface seal:		Concrete 0 30
13. Sieve analysis attached?	- 1008		· `	Other 🛘
14. Drilling method used: Rotary D 5	1 1000	4. Material between	een well casing and protective pi	•
Hollow Stem Auger 🖾 4			_	Bentonite 30
	. 🕷			Other 🛛 🊃
15. Drilling fluid used: Water 0 0 2 Air 0 0 Drilling Mud 0 0 3 None 2	1 100		seal: a. Granular B	entonite 2 33
			al mud weight Bentonite-sar al mud weight Bentonit	
16. Drilling additives used? Yes	б 🐰	d% Ber	ntonite Bentonite-ceme	ent grout 🗖 50
Describe		(XXX	Ft ³ volume added for any of the	
17. Source of water (attach analysis):		f. How install		Tremie 01 pumped 02
			*	Gravity 🔼 08
E. Bentonite seal, topQ 5 ft. MSL or	ft	6. Bentonite seal b. 1/4 in.	a. Bentonite g	
F. Fine sand, top (1) A ft. MSL or	. \			
F. Fine sand, top ft. MSL or	-·- ft.		erial: Manufacturer, product na	40 - ,60 <u></u>
G. Filter pack, top ft. MSL or	ft.	b. Volume add	$ded N/A$, ft^3	
H. Screen joint, top 2 .0 ft. MSL or	ft.	8. Filter pack ma	terial: Manufacturer, product na	ame and mesh size
•		b. Volume ad		
I. Well bottom t \(\frac{1}{2} \overline{\rho} \) ft. MSL or	ft.	9. Well casing:	Flush threaded PVC sched	
J. Filter pack, bottom 12 0 ft. MSL or	fi	JOHN	Flush threaded PVC sched	iule 80 🔲 24
K. Borehole, bottom13 .5 ft. MSL or	ft.	10. Screen materia		
K. Borenote, bottom		a. Screen type		tory cut 🔼 11 ous slot 🔲 01
L. Borehole, diameter _ \$. O in.		b. Manufacture	er JOHNSON	_ Other 🗖 📗
M. O.D. well casing 2225 in.		c. Slot size:		0, <u>10</u> in. <u>10</u> .3 ft.
N. I.D. well casing		· \	al (below filter pack):	None 1 14 Other 1
I hereby certify that the information on this	form is true and c	orrect to the best of my k	nowledge.	
Signature	Firm		-	
ase complete both sides of this form and return to the	ne appropriate DNR offi	ENGINGERING ce listed at the top of this form a	is required by chs. 144, 147 and	i 160, Wis. Stats.,
and ch. NR 141, Wis. Ad. Code. In accordance (with c			_	_
tay of F 1 / Monitoring	الم الم ۱۸۸ و	ot Ahandor	nad (Miceir	Ja) [

E.1.4 Monitoring Well Not Abandoned (Missing)

MONITORING WEL	L DEVELOPMENT
Form 4400-113B	Rev. 4-90

<u>Route to:</u> Solid \ Env. Response &	Waste 🔲 Haz. Was Repair 🔲 Under	ite Wastewater Other	a 🗆	
Facility/Project Name	County Name		Well Name	
MILWAINKEE COUNTY ZOO BLIFFER	T MILWAU	IKEE _	MW-2	
Facility License, Permit or Monitoring Number	County Code 4 1	Wis. Unique Well Nu	imber DNR Wel	Number
1. Can this well be purged dry?	Yes 🛭 No	D. J. Water	Before Development	After Development
2. Well development method surged with bailer and bailed surged with bailer and pumped surged with block and bailed surged with block and pumped surged with block, bailed and pumped compressed air bailed only pumped slowly Other 3. Time spent developing well 4. Depth of well (from top of well casisng) 5. Inside diameter of well 6. Volume of water in filter pack and well casing	41 61 42 62 70 20 10 51 50 10 L O min. L L S ft. 2. O in.	11. Depth to Water (from top of well casing) Date Time 12. Sediment in well bottom 13. Water clarity	a	Clear 20 Turbid 25 (Describe)
7. Volume of Water Parison of Land	_ <u>5</u> . <u>O</u> gal. gal.	14. Total suspended solids	i mg/	1 mg/l
9. Source of water added		15. COD	mg/	/\ mg/l
10. Analysis performed on water added? (If yes, attach results)	Yes No			
16. Additional comments on development:				
Well developed by: Person's Name and Firm		I hereby certify the of my knowledge	at the above information i	s true and correct to the best
Name: MICHAEL OLSEN Firm: LAW ENGINEERING	, INC	Signature: Print Initials:		- Inc.
		Firm:		

E.1.5 Monitoring Well Not Abandoned (Missing)

	lid Waste Haz. Waste W		MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 4-90
Facility/Project Name	& Repair Underground T Local Grid Location of Well	lw _e	Il Name
ZOO-BLIFFERT	ft. S	ft. 🔲 E.	MW 9
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. 43° 2' 57' Lon	NO.	s. Unique Well Number DNR Well Number
e of Well Water Table Observation Well 211 Piezometer 12	St. Plane ft. N	I,ft. E. Da	te Well Installed OG 0 3 9 3 m m d d y y
Piezometer 12 Distance Well Is From Waste/Source Boundary	Section Location of Waste/Sou 1/4 of Sh/1/4 of Sec.29		m m d d y y ell Installed By: (Person's Name and Firm)
Is Well A Point of Enforcement Std. Application?	Location of Well Relative to V	Vaste/Source -	Rick KRIOFGLE
Yes □ No		☐ Sidegradient ☐ Not Known —	
	ft. MSL	1. Cap and lock?	☐ Yes ☐ No
B. Well casing, top elevation	ft. MSL	2. Protective cover p	<u>-</u>
C. Land surface elevation	ft. MSL	b. Length:	
D. Surface seal, bottom ft. MSL or _	ft.	c. Material:	Steel Ø 04
12. USCS classification of soil near screen:		d. Additional prot	
GP GM GC GW SW SW SM SC ML MH CL G	SP II	If yes, describe	
Bedrock 🗆		3. Surface seal:	Bentonite 30 Concrete 201
13. Sieve analysis attached?	1 1000 1000		Other 🗆
14. Drilling method used: Rotary ☐ Hollow Stem Auger ☑	1 100 1000	4. Material between	well casing and protective pipe:
Other			Bentonite 3 0 Annular space seal 3
15. Drilling fluid used: Water 02 Air 0	0.1		AND Other 🗵 🊃
Drilling Mud 0 0 3 None 2	i m uxi	5. Annular space sea	a. Granular Bentonite 23 3 3 and weight Bentonite-sand slurry 2 3 5
1			and weight Bentonite slurry \square 31
16. Drilling additives used? Yes	*		ite Bentonite-cement grout 50
Describe	— I 🐰 🕷	eFt f. How installed:	volume added for any of the above Tremie 0 1
17. Source of water (attach analysis):		i. How hadded	Tremie pumped 🔲 02
		6. Bentonite seal:	Gravity 💆 08 a. Bentonite granules 📋 33
E. Bentonite seal, top 1.3 ft. MSL or	ft		a. Bentonite granules 33 3/8 in. 1/2 in. Bentonite pellets 32
E Fine and ton A/A & MSI or	. \	,	NONE Other 🔀 🧱
F. Fine sand, top NA ft. MSL or	ft.	a.	l: Manufacturer, product name & mesh size None
G. Filter pack, top2.0 ft. MSL or	ft. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	b. Volume added	ft ³
H. Screen joint, top 2 \(\left \) ft. MSL or			al: Manufacturer, product name and mesh size
		b. Volume added	
I. Well bottom 1 2 .5 ft. MSL or	fr.	9. Well casing:	Flush threaded PVC schedule 40 \(\mathbb{Z} \) 23 Flush threaded PVC schedule 80 \(\mathbb{D} \) 24
J. Filter pack, bottom	ft		Other 🔲 🧾
K. Borehole, bottom13.0 ft. MSL or	ft.	10. Screen material: a. Screen type:	Sch 40 PVC Factory cut ☑ 11
L. Borehole, diameter $-\underline{g} \cdot \underline{O}$ in.			Continuous slot 0 1 Other 0
M. O.D. well casing _ 2.37 in.		b. Manufacturer _ c. Slot size:	0/_ 0 in.
N. I.D. well casing _ 2 . 0 6 in.		d. Slotted length: 11. Backfill material (l	AAAAAA
	form in two and arms to	to the best of any leave	Other 🗆 🧓
hereby certify that the information on this	Firm ,	to the best of my know	wieuge.
Carmen June		SINEGRING	
Please complete both sides of this form and return to the and ch. NR 141, Wis. Ad. Code. In accordance with a SOOO for each day of violation. In accordance with a	h.144, Wis Stats., failure to fil	e this form may result in a fo	rfeiture of not less than \$10, nor more than

and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin Department of Natural Resources

Route to: Solid War Env. Response & Re	ste 🔲 Haz. Was epair 🔲 Under	ste	a	(
	County Name		Well Name	· · · · · · · · · · · · · · · · · · ·
	MILLIAN	ILEE	MW-9	
MILWAUKEE COUNTY ZOO Facility License, Permit or Monitoring Number	County Code	Wis: Unique Well Nu	mber DNR Wel	Number
1. Can this well be purged dry?	s 🗆 No	11. Depth to Water	Before Development	. /
2. Well development method surged with bailer and bailed 4 surged with bailer and pumped 6		(from top of well casing)	a ft.	
surged with block and bailed 4 surged with block and pumped 6	52	Date	$b = \frac{6}{m} / \frac{7}{d} / \frac{93}{y}$	
compressed air	7 0 2 0 1 0	Time	c. 17: 40 a.m.	
pumped only	5 1 5 0	12. Sediment in well bottom		inches
Other		13. Water clarity	Clear 10 Turbid 15 (Describe)	Turbid 25 (Describe)
J. 1 0	_O_ min. <i>[8</i> ft.			
	<u>0</u> o in.			
,	6. <u>O</u> gal.	Fill in if drilling flu	nids were used and well is	at solid waste facility:
7. Yours of wast time	<u>O</u> . <u>O</u> gal.	14. Total suspended	dmg	/\ mg/l
8. Volume of water added (if any)	gal.	15. COD	mg	// mg/l
9. Source of water added		15. COD		
10. Analysis performed on water added?	Yes 🗖 No	•		
16. Additional comments on development:				
		•		
Well developed by: Person's Name and Firm		I hereby certify the of my knowledge	nat the above information	is true and correct to the bes
Name: RUSS KOTRBA		Signature:	·	w.
Firm: LAW ENGINEERIN	G, INC.	Print Initials:		Name of the Control o
		Firm:		

Noncetement of Matricel Description	lid Waste Haz. Waste L		MONITORING WELL CO Form 4400-113A	ONSTRUCTION Rev. 4-90
Facility/Project Name	Local Grid Location of Well		Well Name	
MILWAUKEE COUNTY 200	ft. N.	ft. 🛮 E.	MW-10	
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. 43° 2' 07 Lo	ong. 88 21 13 or	Wis. Unique Well Number DN	R Well Number
Type of Well Water Table Observation Well 11	St. Plane ft.		Date Well Installed /	<u> </u>
Piezometer 12	Section Location of Waste/S	ource	$\frac{m}{m} \frac{m}{m} \frac{1}{a}$	출/女袞
Distance Well Is From Waste/Source Boundary	1/4 of SW1/4 of Sec.2	9, T. 7 N, R. 21 8.	Well Installed By: (Person's Na	me and Firm)
Is Well A Point of Enforcement Std. Application?	Location of Well Relative to	Waste/Source	SAUTER DRILL	116
☐ Yes ☐ No	1	☐ Sidegradient☐ Not Known	RICK KRIOFS	3KE
	ft. MSL	1. Cap and lock?		Yes □ No
	ft. MSL	2. Protective cov		` a
b. Well cashig, top elevation		a. Inside diame	eter:	_9.0 in.
	ft. MSL	b. Length:		_2. oft. Steel - 04
D. Surface seal, bottom ft. MSL or	ft.		FLUSH MOUNT	Other 🖾 🚆
12. USCS classification of soil near screen:		d. Additional	•	☐ Yes ☐ No
GP GM GC GW SW GSW GSW GSW GSW GSW GSW GSW GSW G	CH	H / /	ribe:	ntonite 30
Bedrock □		3. Surface seal:		ntonite
13. Sieve analysis attached? Yes	1 10001 100	<u> </u>		Other 🛘 🚆
14. Drilling method used: Rotary	i maga	4. Material betw	een well casing and protective pip	e:
Hollow Stem Auger Other			Ве Annular spa	entonite 🔲 30
		L 4	And	oce seal 🔲 💹
15. Drilling fluid used: Water 0 0 2 Air 0	1 10001 100	5. Annular space		ntonite 🔲 33
Drilling Mud □ 03 None □	99 📓 🖁		al mud weight Bentonite-sand	
16. Drilling additives used?	No 💹 🖁		al mud weight Bentonite ntonite Bentonite-cemer	
, n			Ft 3 volume added for any of the	
Describe	💹 🖁	f. How instal	led:	Tremie 🔲 01
(masi minysb).			-	umped 02
		6. Bentonite seal		Gravity ₹ 08 ranules □ 33
E. Bentonite seal, top Q & ft. MSL or	ft_	Y1	□3/8 in: □1/2 in. Bentonite	
		С	NONE	Other 🛮 🚉
F. Fine sand, top ft. MSL or	· - · - ft.	81 / /	terial: Manufacturer, product na	me & mesh size
G. Filter pack, top b ft. MSL or	ft.	a b. Volume ad		
		8. Filter pack ma	aterial: Manufacturer, product na	
H. Screen joint, top2_0 ft. MSL or	n	2 BADGER	MINING SAND 185	<u>- </u>
I. Well bottom12_Oft. MSL or	ft.	b. Volume ad 9. Well casing:	rled ft ² Flush threaded PVC schedu	
	<u> </u>	, went cashing.	Flush threaded PVC schedu	~~
J. Filter pack, bottom ft. MSL or	ft	\	····	Other 🛚 💆
K. Borehole, bottom		10. Screen materi		<u></u>
K. Borenote, bottom it. MSL of	"	a. Screen typ		ory cut 1 1 lous slot 1 1 0 1
L. Borehole, diameter 2 in.				Other 🛘 🚆
M. O.D. well casing _ 2 _ 3 _ 7 in.		b. Manufactur c. Slot size:	er JOHNSON	
wi. O.D. well casing in.		d. Slotted len	gth:	10. oft
N. I.D. well casing0_6 in.		\	ial (below filter pack):	None E 14
I hereby certify that the information on this	form is true and corre	ert to the hest of my	knowledge	Other 🔲 💆
Signature	Firm		momeogo.	
Carmen Ing	LAW G	MIGINGBRING		
Please and ch \$5,000 E.1.8 Monitorin	a Well No	t Ahando	ned (Missir	Stats., than
\$5000 day of	9 *************************************	· / wariao	1100 (17110011	9) each

Env. Response & Repair Underground Tanks Other Facility/Project Name MILWAUKE WW - (O)	After Development
MILWAUKEE MW - (O) Facility License, Permit or Monitoring Number 1. Can this well be purged dry? 2. Well development method surged with bailer and bailed MILWAUKEE MW - (O) Wis: Unique Well Number DNR Well Number 11. Depth to Water (from top of well casing) Refore Development A 12. SU ft.	After Development
1. Can this well be purged dry? 2. Well development method surged with bailer and bailed Yes No 11. Depth to Water (from top of well casing) Refore Development A 12. Well development method well casing)	After Development
2. Well development method surged with bailer and bailed 11. Depth to Water (from top of well casing) ft. well casing)	<u> 2.65</u> ft.
surged with bailer and bailed 41 well casing)	
Turbid 15 To	a.minches Clear
16. Additional comments on development:	·
Well developed by: Person's Name and Firm I hereby certify that the above information is true of my knowledge.	ue and correct to the bes
Name: Rugs KoTRRA Signature: Print Initials: Print Initials:	(
E.1.9 Monitoring Well Not Abandoned (M	(lissing)

State of Wisconsin Department of Natural Resources Route to: Solid Waste Haz. Waste Equation 1. Haz. Waste Haz. Was	Form 4400 1124 Pev 4-90
Facility/Project Name Env. Response & Repair Underground Location of W	ind Tanks LI Other
700 BUFFERT IL IN	$ft. \prod_{i=1}^{E_i} \bigcap_{i=1}^{N_i} I^2$
Cit Original and in the Control of t	Long. 88 2 18" or Wis Unique Well Number DNR Well Number
pe of Well Water Table Observation Well 21 St. Plane	ft. N, ft. E. Date Well Installed ft. E
Piezometer	0,00a,00
1/4 of $\frac{5}{2}$ $\frac{1}{4}$ of Secondary Secondary Location of Well Relative	3.27.T. IN, R. 21 DW.
Is Well A Point of Enforcement Std. Application? u Upgradient	s 🗆 Sidegradient
	n Not Known Yes No
A. Protective pipe, top elevation ft. MSL	1. Cap and lock? Yes No 2. Protective cover pipe:
B. Well casing, top elevation ft. MSL	a. Inside diameter: _9.9 in.
C. Land surface elevation ft. MSL	b. Length: L2.0 ft.
D. Surface seal, bottom ft. MSL or ft.	c. Material: Steel 2 04
12. USCS classification of soil near screen:	d. Additional protection?
GP GM GC GW SW SP D	If yes, describe:
SM SC ML MH CL CH CH	3. Surface seal: Bentonite 30 Concrete 30
13. Sieve analysis attached?	Concrete 12 01
14. Drilling method used: Rotary 50	4. Material between well casing and protective pipe:
Hollow Stem Auger 241	Bentonite 30
Other 🗆 🚟	Annular space seal SAND Other Other
15. Drilling fluid used: Water 0 0 2 Air 0 0 1	5. Annular space seal: a. Granular Bentonite Z 33
Drilling Mud □ 03 None ☑ 99	bLbs/gal mud weight Bentonite-sand slurry \Box 35
16. Drilling additives used? ☐ Yes ☐ No	cLbs/gal mud weight Bentonite slurry 31
16. Drining additives used:	d% Bentonite Bentonite-cement grout \square 50 e
Describe	e. 1-30 part Pt Volume added for any of the above f. How installed: Tremie 01
17. Source of water (attach analysis):	Tremie pumped 🗖 02
	Gravity Z 08
A PIG MEI on	6. Bentonite seal: a. Bentonite granules b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 3 3
E. Bentonite seal, top 1. \mathcal{O} ft. MSL or ft.	c. Nonc Other Ø
F. Fine sand, top N. A. ft. MSL or ft.	7. Fine sand material: Manufacturer, product name & mesh size
G. Filter pack, top 2_ oft. MSL or ft.	a
G. Filter pack, top 2.0 ft. MSL or ft.	8. Filter pack material: Manufacturer, product name and mesh size
H. Screen joint, top 3 . Oft. MSL or ft.	a BADGER MINING SAND 185-195
I. Well bottom130 ft. MSL or ft.	b. Volume added 10 - 50# 846 S ft 3 9. Well casing: Flush threaded PVC schedule 40 🗵 23
I. Well bottom15.0 ft. MSL or ft.	Flush threaded PVC schedule 80 24
J. Filter pack, bottom13_5 ft. MSL or ft.	Other 🛘 💹
17 (6.140)	10. Screen material: SCH 40 PVC
K. Borehole, bottom13.5ft. MSL or ft.	a. Screen type: Ractory cut 💆 11 Continuous slot 🔲 01
L. Borehole, diameter _ 2 . O in.	b. ManufacturerOther □
M. O.D. well casing 237 in.	c. Slot size: 0. \(\sum_{\text{constrain}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
·	d. Slotted length:
N. I.D. well casing _2.06 in.	11. Backfill material (below filter pack): None 2 14 Other 1
ereby certify that the information on this form is true and co	prrect to the best of my knowledge.
Znature Firm	
Bland hat hat a of this form add return to the appropriate DNR office	NGINGERIALS, ce listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats.,
\$5000 for E. I. IU WONITOTING VVEII	Not Abandoned (Missing)

Route to: Solid Waste Haz. Waste Wastewater Env. Response & Repair Underground Tanks Other L								
	County Name		Well Name					
Facility/Project Name MILWAUKEE COUNTY ZO	O MILWAU	1 F E	MW-12					
Facility License, Permit or Monitoring Number	County Code 4 (Wis, Unique Well Nu	MW-12 mber DNR-Wel	l Number				
Can this well be purged dry?	□ Yes Æ No	11. Depth to Water	Before Development	•				
2. Well development method surged with bailer and bailed	9- ° □ 41	(from top of well casing)	a2.02ft.	ft.				
surged with bailer and pumped surged with block and bailed surged with block and pumped	□ 61 □ 42 □ 62	Date	$b. \frac{6}{m} \frac{6}{m} \frac{7}{d} \frac{9}{d} \frac{9}{y}$	$\frac{b}{m} \frac{b}{d} \frac{g}{d} \frac{g}{y} \frac{g}{y} 3$				
surged with block, bailed and pumped compressed air	70 20	Time	c. 17:00 p.m.	/6:55 p.m.				
bailed only pumped only pumped slowly	10 51 50	12. Sediment in well bottom						
Other 3. Time spent developing well		13. Water clarity	Clear 10 Turbid 215 (Describe)	Clear 20 Turbid 25 (Describe)				
•								
5. Inside diameter of well	_ <u>2.00</u> in.							
 Volume of water in filter pack and well casing 	6.2gal.	Fill in if drilling flu	ids were used and well is	at solid waste facility:				
7. Volume of water removed from well	_300gal.	14. Total suspended						
8. Volume of water added (if any)	gal.	solids						
9. Source of water added		15. COD	mg	/I mg/I				
10. Analysis performed on water added? (If yes, attach results)	Yes No	. 1						
16. Additional comments on development:								
•								
Well developed by: Person's Name and Firm		I hereby certify the of my knowledge.	at the above information i	s true and correct to the best				
Name: RUSS KOTEBA		Signature:						
Firm: LAW ENGINEERI	NG INC.	Print Initials: _		7				
	·	Firm:						

TRC I	Project	No:			202002.00	200 0000	Doute Te			D							T=			
	y/Proje		amo		202083.00	000.0000	Route To	11:	- /D	Remediat	ion/	Red	evelopn	nent	15 :		Page		1 of	<u>f 1</u>
l' aciii				ounty	Eormor D	Bliffert Lumb	or	Licens	se/Perm	it/Monitori	ng N	umt	per		Borin	g Nu				
Borino	Drillec	Ry	· Name	of cre	- FORMER D	st, Last) and	d Eirm	!		Data Ctart				-1- 0				13-5		
First N		υ,	Greg	OI CIC	W Cinei (in	Last Name				Date Started			Date Completed			a	Drilling Method			1
		Fn		ental S	Services, In		5. Talaon			5/29/2013	3		5/29/2013				Direct Push			
							Final St	atic Water	Lov	ıol	Surfac	o Ele	wotion		Porch	olo I	Diameter			
					VENTER OF STREET				i iriai Ot	allo vvalei	LCV	CI	Journac	C LIC	-		Boien	OIG L	2"	
Local	Grid Or	igin	(Esti	mate	d:) or Bo	ring Locatio	n .		T	·			·	l l	ocal Gri	dlo	cation			
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ļ		F	acility II	<u> </u>			County			Cou	nty (Code)		С	vil To	own/Cit	y/ or	Village	
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Sar	nple	ß	달								_	ڃ			Soil F	rope	rties			
_	Length (In) Recovered	Blow Counts	Depth in Feet [Below Ground	'g'						10	Graphic Log	Well Diagram	PID Reading	Compressive	_ _	#≡		l	RQD/ Comments	3
Number	() () ()	ပိ	. <u>E</u> Ø	Į ąį	Soil/Roci		n And Geolo	ogic Orig	jin For	nscs	ું.	ig.	ea	ompressiv	al el el	1.5	l S ×	0) 5	2
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					Groundwate	er samples	were collecte	ed on 6-	3-2013											
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oiynatt	ıı C			/	P					Firm										
			Charle	n	' Sss.					TRC Env			al Corp	orati	on					
				Brookfield, WI																

TRC F					202083.00	000.000	Route To:				Remediat	ion/F	₹ede	evelopn	nent				Page		1	of 1
Facility	/Projed M			nuntv	- Former B	liffert Lumbe	ar	Licer	se/P	ermi	l/Monitorii	ng N	umb	er			Boring	Nur		.13-6		
Boring	Drilled	By:	Name	of cre	w chief (firs	st, Last) and	Firm	<u> </u>		D	ate Starte	d		Da	ate (Com	pleted				g Metho	od .
First Name: Greg Last Name: Kitson Firm: Kitson Environmental Services, Inc.								5/29/2013				5/29/2013				Direct Push						
	igue W			ntai t	Services, Inc	C.	Well Nam		Fins		tic Water		oi.	Surfac					Borehole Diameter			
	4 y 9	<u> </u>	10.				VVCII IVAIII		11110	ai Ota	IIIC VValei	LGV	GI	Journac	- L	-	RUOFI		Doteil	OIE L	2"	
	Grid Or	igin	(Esti	mate	d:) or Bor	ring Location	n		. 1							Loc	cal Grid	Loc	cation			
State I	Plane: 1/4	of	SW	1//	of Section] N, [29 . T	7 N, F	2 24]W		0			17 (1 to 2)	"		F		N		F 1	E W
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		Fa	acility II)			County				Cour	nty C	ode				Civ				Village	
						<u> </u>	Milwaukee		L				- 100	1 11	لــــ				Wauwa	tosa		
Sar	nple	ıţ	Depth in Feet [Below Ground								•	g	ڇ	þ	-		Soil P	rope	rties	Т		ω
Į į	Length (In) Recovered	Blow Counts	Grot	ace]	Soil/Rocl	k Description	n And Geolo	aic Ori	ain F	or	၂ ဗ္ဂ	Graphic Log	Well Diagram	PID Reading	Compressive	₽│	e +	풀	₹		RQD/	ent
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					Groundwa	ater sample:	s were collec	cted 6-	3-20	13												
I hereh	y certif	v the	at the in	form	ation on this	form is true	e and correct	t to the	bes	t of n	ny knowle	dae										
Signatu										1 11	Firm	30-										
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1 NUN 1/ N / NZ 1Z/2					TRC Environmental Corporation Brookfield, WI																	

Domestores of Matricel Description	d Waste Haz. Waste		MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 4-90
Env. Response a	& Repair Underground Local Grid Location of Wel	1	Well Name
ZOO BLIFFERT	ft. 🔲 N.	ft. □ E.	Mw4
Facility License, Permit or Monitoring Number	Grid Origin Location "Lat. <u>井3° 之'07</u> L		William Colonia Coloni
po or from Water Table Observation Well [2] 11	St. Planeft.	. N, ft. E.	Date Well Installed
Piezometer 12 S Distance Well Is From Waste/Source Boundary	Section Location of Waste/S	Source	$\frac{Ob}{m} \frac{1}{m} \frac{2}{d} \frac{1}{d} \frac{9}{y} \frac{3}{y}$ Well Installed By: (Person's Name and Firm)
300 ft.	1/4 of <u>>W</u> 1/4 of Sec. 2 Location of Well Relative to	-L, I IV, KP_ W.	Rick Kriorska
is well A Point of Enforcement Std. Application?	u 🛘 Upgradient s	☐ Sidegradient	
		☐ Not Known 1. Cap and lock?	☐ Yes ☐ No
c.	MSL	2. Protective cov	
B. Well casing, top elevation ft.		a. Inside diame	- 2
	MSL	b. Length:	<i>12.0</i> ft. Steel Z 04
D. Surface seal, bottom ft. MSL or	ft.	10 0 4/17/1 1/17/2	FLUSH MOUNT Other . DY
12. USCS classification of soil near screen:		d. Additional p	
GP GM GC GW SW SI SM SC ML MH CL C			ibe:Bentonite D 30
Bedrock 🗆		3. Surface seal:	Concrete 2 01
13. Sieve analysis attached? ☐ Yes ☐ No	1 10001 100		Other 🛘 🏥
14. Drilling method used: Rotary D 50 Hollow Stem Auger D 4	I mig	4. Material betwe	en well casing and protective pipe: Bentonite 30
Other 🗆			Annular space seal
15. Drilling fluid used: Water 02 Air 0	, 🐰 🖁		SAND Other Z seal: a. Granular Bentonite Z 33
15. Drilling fluid used: Water □ 02 Air □ 0 Drilling Mud □ 03 None □ 9	1 1001 100	5. Annular space	
			al mud weightBentonite-sand slurry 35 al mud weightBentonite slurry 31
16. Drilling additives used? ☐ Yes ☐ No	' 	d % Ben	tonite Bentonite-cement grout 50
Describe	🐰 🖁	VI.	Ft 3 volume added for any of the above
17. Source of water (attach analysis):		f. How install	ed: Tremie 0 1 Tremie pumped 0 02
	I		Gravity 🗗 08
/ Os May		6. Bentonite seal:	· · · · · · · · · · · · · · · · · · ·
E. Bentonite seal, top L . Q ft. MSL or	· · - ft	b. □1/4 in.	□3/8 in. □1/2 in. Bentonite pellets □ 32 NONE Other ☑ 32
F. Fine sand, top \Delta . A ft. MSL or	- ·- ft.	7. Fine sand mate	erial: Manufacturer, product name & mesh size
G File all and a D ft MSI or	3. 1.4 1.	y /	NONE
G. Filter pack, top \(\sum_{\text{.}} \overline{\Omega} \) ft. MSL or	- :- ft.	b. Volume add	ledft ³ terial: Manufacturer, product name and mesh size
H. Screen joint, top ft. MSL or	ft	a RADSER	
T W. W.		b. Volume adi	led <u>9-50#13#65</u> ft ³
I. Well bottom 13_ 0 ft. MSL or	ft.	9. Well casing:	Flush threaded PVC schedule 40 Z 23 Flush threaded PVC schedule 80 D 24
J. Filter pack, bottom1 5 ft. MSL or	ft.		Other 🛘 🧱
K. Borehole, bottom13.5 ft. MSL or		2	1: Sch 40 Brc
K. Borehole, bottom Z it. MSE of	·- "\	a. Screen type	Factory cut Z 11 Continuous slot D 01
L. Borehole, diameter _ 2 o in.		<u> </u>	Other □
			TOHNSON
M. O.D. well casing $-\frac{1}{2}, \frac{3}{2}$ in.		c. Slot size: d. Slotted leng	0. <u>/</u>
N. I.D. well casing _2.6 k in.		\	al (below filter pack): None 14
The state of the s	1 1 1 1 1 1 1 1 1 1		Other 🗆 🧓
hereby certify that the information on this f	form is true and corre	ect to the best of my k	nowleage.
Carmen Jung		161NEERING	
Please complete both sides of this form and return to the and ch. NR 141, Wis. Ad. Code. In accordance with ch.	1.144, Wis Stats., failure to	file this form may result in	a forfeiture of not less than \$10, nor more than

\$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of VE.1.14 Monitoring Well Not Abandoned (Missing)

Route to: S	Solid Waste 🔲 Haz. Wa nse & Repair 🔲 Unde	ste Wastewater Wastewater Cothe	· O	
cility/Project Name	County Name	<u> </u>	IWell Name	
	MILWAU	16EE	MW-4	
MILWAUKEE COUNTY ZOO willity License, Permit or Monitoring Number		Wis. Unique Well Nu	mber DNR Wel	Number
. Can this well be purged dry?	Æ Yes □ No	D. J. Water	Before Development	After Development
		11. Depth to Water (from top of	. 1.83 ft.	2.4 gr.
. Well development method		well casing)	a+_ · · · · · · ·	
surged with bailer and bailed	1 41	J		
surged with bailer and pumped	□ 61 □ 43	Date	. 6,7,93	6,8,93
surged with block and bailed	42	Danc	$b = \frac{6}{m} \frac{1}{m} \frac{7}{d} \frac{19}{d} \frac{3}{y}$	$\frac{1}{m}\frac{1}{m}\frac{1}{d}\frac{1}{d}\frac{1}{y}\frac{1}{y}$
surged with block and pumped	□ 62 □ 70			
surged with block, bailed and pumped		Time	c. 6 : 4 Sp.m.	14:35 P.I
compressed air	□ 20 25 10			
bailed only	·	12. Sediment in well	inches	inche
pumped only	_	bottom	-	
pumped slowly	50	13. Water clarity	Clear 🗖 10	Clear 20
Other			Turbid 🔼 15	Turbid 🛘 25
3. Time spent developing well	o min.		(Describe)	(Describe)
4. Depth of well (from top of well casisng)				
5. Inside diameter of well	_ <u>2.º</u> _in.			
6. Volume of water in filter pack and well				
casing	gal.	Fill in if drilling flu	ids were used and well is	at solid waste facility:
7. Volume of water removed from well	gal.	14. Total suspended		
8. Volume of water added (if any)	gal.	solid s		
9. Source of water added		15. COD	mg	Л m
10. Analysis performed on water added? (If yes, attach results)	☐ Yes ☐ No			
16. Additional comments on development:				
•				
				•
Well developed by: Person's Name and Firm	ı	I hereby certify the	at the above information	is true and correct to the
. D. Jenn		Signature:		
Name: Rux KoTRRA		-		1
Firm: LAW ENGINGER	LIG TNC	Print Initials: _		
Firm: An GN/2 WEEK	(110) VC	— 1		
12000 - 000		1		

Noncomposition of Motornal Description	lid Waste Haz. Waste		MONITORING WELL CONST Form 4400-113A	RUCTION Rev. 4-90
Facility/Project Name	Local Grid Location of W	and Tanks Other		RCV. 4-70
ZOO BLIFFERT	ft. S	ft. DE.	Well Name	
Facility License Dormit or Monitorine Number			MW 5	all Missach and
1 definity 2.001.201, 1 of fine of five land ling frameout	Lat. 43° 2'67	Long. 88 2 18 or	Wis. Unique Well Number DNR W	en iamudet
of Well Water Table Observation Well 11			Date Well Installed	
Piezometer 12	St. Plane		Date Well histalled $\frac{0.6}{0.6} \cdot 0.4$	93
Distance Well Is From Waste/Source Boundary	Section Location of Wast	e/Source	Moll Installed By (Demon's News	y y
50 ft.	1/4 of \(\frac{5\times}{1}\)1/4 of Sec	.21, T. 1N, R.21 W.	Well Installed By: (Person's Name a	na Fim)
Is Well A Point of Enforcement Std. Application?	Location of Well Relative u Upgradient	to Waste/Source	RILK KRIOFSKE	
☐ Yes ☐ No		s Sidegradient		
	d Downgradient	1. Cap and lock		es 🛮 No
	ft. MSL	2. Protective cov	-	2 II 1/0
B. Well casing, top elevation	n. MSL ———	a. Inside diam		_9.0in.
C I and make a classical	ft. MSL	b. Length:	cici.	_7.21L _2.0ft.
C. Land surface elevation	II. MISL	c. Material:	Stag	2 2 916
D. Surface seal, bottom ft. MSL or	ft. \			
12. USCS classification of soil near screen:		d. Additional		a Zel ∷∷ es Del No
GP GM GC GW SW G	SP 🗆	112 \	ribe:	a pa 140
SM SC ML MH CL	CH 🗖		Bentonii	30
Bedrock 🗆		3. Surface seal:	Concre	
13. Sieve analysis attached? Yes	No 🐰			
14. Drilling method used: Rotary	50	4. Material between	een well casing and protective pipe:	. 🗕 🏬
Hollow Stern Auger	1 5001		Bentoni	te 🛮 30
Other 🗆		₩	Annular space sea	
15. Drilling fluid used: Water □ 02 Air □	01		seal: a. Granular Bentonit	e ⊠ 33
Drilling Mud □ 03 None ☑	99			
			al mud weight Bentonite-sand slurr	•
16. Drilling additives used? ☐ Yes ☐ ?	√ 0 ₩		al mud weight Bentonite slurry	,
		d70 Bel	Ft 3 volume added for any of the above	ut 🗖 50
Describe	I	f. How install		
17. Source of water (attach analysis):	l (88)	i. How install	Tremie pumpeo	
	│		•	
			Gravity	
E Dansais and an 1 10 6 MSI or	. 💹	6. Bentonite seal	•	
E. Bentonite seal, top L. Q ft. MSL or	- ·- II.		□3/8 in. □ 1/2 in. Bentonite pellet	
F. Fine sand, top A) A ft. MSL or	ft.	C	NONE Other	8 00
F. Fine sand, top N.A. ft. MSL or	-·- "\ <u>\</u>	7. Fine sand mat	erial: Manufacturer, product name &	
G Files and the Committee of the MSI or	ft.		NONE	_ ##
G. Filter pack, top 2.0 ft. MSL or	"	b. Volume ad		
7.0 A MCI on	,	8. Filter pack ma	terial: Manufacturer, product name an	d mesh size
H. Screen joint, top ft. MSL or	ft	a MADGER	MINING SAND .8595	_ 🚟
7 W 11 17 A A MOI	. ·		ded 9-50# 8465 ft 3	
I. Well bottom13_oft. MSL or	"/ [編	9. Well casing:	Flush threaded PVC schedule 40	
7 PM 1 1 1 1 1 2 5 6 MOI		KL .	Flush threaded PVC schedule 80	
J. Filter pack, bottom12_5 ft. MSL or	fi	划	Other	
13 5 6 1601		%	al: <u>SCH 40 PUC</u>	_ 22
K. Borehole, bottom13 .5 ft. MSL or	ft.	a. Screen type	•	
			Continuous slo	t 🗖 01
L. Borehole, diameter _ 2 o in.	\earti	<u> </u>	Othe	r 🗖 🊃
			COSCHOT_ TOHOSON	
M. O.D. well casing 2.37 in.		c. Slot size:		0/_O in.
		d. Slotted length		<u> 10</u> . <u>0</u> ft.
N. I.D. well casing _ 2 . 0 & in.		11. Backfill materi		e 🗗 14
			Other	
I hereby certify that the information on this		rect to the best of my k	nowledge.	
mature	Firm			<u> </u>
Jamen Jung	LAW E	-NOINEERING		TT
Please complete both sides of this form and return to t and ch. NR 141. Wis. Ad. Code. In accordance with				

and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of E.1.16 Monitoring Well Not Abandoned (Missing)

Route to: Sol Env. Response	lid Waste 🗖 Haz. Was e & Repair 🗍 Under	te 🔲 Wastewater 🗋 ground Tanks 🗖 Othe		** Separate
Facility/Project Name	County Name			
Facility/Project Name	Mil WA	IKEE	Well Name MW-5	
MILNAUKEE COUNTY ZOO Facility License, Permit or Monitoring Number	County Code	Wis, Unique Well Nu	mber DNR Wel	Number ———
1. Can this well be purged dry?	⊠Yes □ No	11. Depth to Water	Before Development	
2. Well development method surged with bailer and bailed surged with bailer and pumped surged with block and bailed surged with block, bailed and pumped surged with block, bailed and pumped compressed air bailed only pumped only pumped slowly Other 3. Time spent developing well 4. Depth of well (from top of well casisng) 5. Inside diameter of well 6. Volume of water in filter pack and well casing 7. Volume of water removed from well 8. Volume of water added (if any) 9. Source of water added	41	(from top of well casing) Date Time 12. Sediment in well bottom 13. Water clarity	Clear 10 Turbid 215 (Describe)	at solid waste facility:
10. Analysis performed on water added? (If yes, attach results)	☐ Yes ☐ No			
16. Additional comments on development:				
				•
Well developed by: Person's Name and Firm		I hereby certify the	nat the above information	is true and correct to the best
Name: RUSS KOTRBA Firm: LAW ENGINEERIN		Signature: Print Initials:		
Firm: LAW ENGINEERIN	<i>G</i> ₇	Firm:		

Table of Contents F. Source Legal Documents Zoo-Bliffert Case Closure – GIS Registry

- F. 1. Deed -
 - F. 1. 1.- F. 1. 2. Figures from Register of Deeds
- F. 2. Certified Survey Map Figures from Register of Deeds
- F. 3. Verification of Zoning
 - F. 3. 1. F. 3. 2. Figures from City of Milwaukee
- F. 4. Signed Statement- Figure created with information from deed

State Bar of Wisconsin Form 3-2003
QUIT CLAIM DEED

Document Number	Documer	RECORDED 04/06/2015 01:39PM JOHN LA FAVE		
HIS DEED, made between Milwaukee County, a Wisconsin municipal body			REGISTER OF DEEDS Milwaukee County, WI AMOUNT: 30.00	
		or," whether one or more),	FEE EXEMPT #: 77.25(2)	
and Milwaukee County, a W	Visconsin municipal body corpo	orate		
rents, profits, fixtures and ot County, State of Wisconsin (That part of the Southwest 1/4 or City of Milwaukee, Milwaukee	e the following described real enter appurtenant interests, in herefore, in here appurtenant interests, in here appurtenant interests, in here appurtenant interests, in here appure for the following section 29, Town 7 North, Range County, Wisconsin, bound and described appure for the following section in the following section 29, Town 7 North, Range County, Wisconsin, bound and described for the following section 29, Town 7 North, Range County, Wisconsin, bound and described for the following section 29, Town 7 North, Range County, Wisconsin, bound and described for the following section 29, Town 7 North, Range County, Wisconsin, bound and described for the following section 29, Town 7 North, Range County, Wisconsin, bound and described for the following section 29, Town 7 North, Range County, Wisconsin, bound and described for the following section 29, Town 7 North, Range County, Wisconsin, bound and described for the following section 29, Town 7 North, Range County, Wisconsin, bound and described for the following section 29, Town 7 North, Range County, Wisconsin, bound and described for the following section 29, Town 7 North, Range County, Wisconsin, bound and described for the following section 29, Town 7 North, Range County, Wisconsin, Bound and County 20, Town 7 North, Range County, Wisconsin, Range County, Wisconsin, Range County, Wisconsin, Range County, Wisconsin, Range County, Wisconsin, Range County, Wisconsin, Range County, Wisconsin, Range County, Wisconsin, Range County, Rang	Milwaukee 21 East, cribed as follows	Recording Area Name and Return Address Milwaukee County Office of Corporation Courses	
Southwest one-quarter of said So Quarter Section, 339 54 feet to p Transportation Company Railros line of railroad, 49 84 feet to a fe	ument with a brass cap marking the ection 29, thence North 88°28'19" I point on the East right of way line o ad, Thence North 17°30'30" West a bound fron pipe being the Point of B 17°40'29" West along said east right	East along the South line of said of the Chicago Northwestern along the said East right of way leginning of the following	901 N 9th street, 120m 303 milwauker, WE 53233	
distance of 375 61 feet to a foun	d fron pipe. Thence North 10°54'54	4" West a distance of 812 59	410-0001-111 Parcel Identification Number (PIN)	
feet, along said right of way to a also known as State Trunk High North 14°56'39" East a distance S T H 100 right of way North 4	a found from pipe on the East right of way 100, Thence continuing along of 129 22 feet to a found from pipe 2°10'05" East a distance of 61 91 for Road also known as State Trunk H	of way of North Maytair Road said S T H 100 right of way Thence continuing along said teet to a point on the South right	This ls Not homestead property (13) (15 not)	
continuing along said South right of 172 07 feet to a point, Thence Road South 89°11'53" East a dis distance of 364 95 feet to a point point, Thence South 43°48'23"	ht of way line of Bluemound Road to continuing along said South right stance of 95 88 feet to a point, The at, Thence South 10°54'57" East a dewest a distance of 282 63 feet to the	South 86°25'17" East a distance of way line of Bluemound nee South 03°35'23" West a distance of 759 96 feet to a nee Point of Beginning,	APPROVED FOR DESCRIPTION COUNTY DIPW	
recording, the above-described	ose of a lot line adjustment pursuan Property will be attached to Tax Ke Tax Key No 4100001111 shall be a by reference	ey No 4100001111, and	Transfer fee and form exempt pursuant to Wis. stats. 77.25	
Dated 3/13/15 Chyis Alele AUTHEN	(SEA)	L) Joseph Company	(SEAL) WLEDGMENT	
Signature(s)	FOR	STATE OF WISCONSIN)) ss	
authenticated on CORPOR	RATION COUNSEL	Milwaykee	COUNTY)	
*		Personally came before me		
TITLE MEMBER STATE	BAR OF WISCONSIN	the above-named Char		
(If not,			rson(s) who executed the foregoing	
authorized by Wis St	at § 706 06)	instrument and acknowled		
THIS INSTRUMENT DRA	FTED BY		O CHORD	
David Caldini		Grease L. C.	ristenson DOGELONNONE	
NOTE THIS IS	A STANDARD FORM ANY MOD	Notary Public, State of Wis My Commission (is perman ted or acknowledged Both are not infications TO THIS FORM SH	nent) (expires	
* Type name below signatures	C 2003 S	STATE BAR OF WISCONSIN	MSCON WISCON	

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DOC.# 10448654

Exhibit A

Legal Description

That part of the Southwest 1/4 of Section 29, Town 7 North, Range 21 East, City of Milwaukee, Milwaukee County, Wisconsin, described as follows:

Commencing at a concrete monument with a brass cap marking the Southwest corner of the Southwest one-quarter of said section 29, thence North 88°28'19" East along the South line of said Quarter Section, 339.54 feet to the East right of way line of the Chicago Northwestern Transportation Company Railroad; Thence North 17°30'30" West along the East right of way line of said railroad, 49.84 feet to a found iron pipe and the Point of Beginning of the following described parcel;

Thence North 17°40'29" West along the East right of way line of said railroad, 375.61 feet to a found iron pipe; Thence continue along said East right of way line, North 10°54'54" West 812.59 feet to a found iron pipe on the East right of way line of North Mayfair Road also known as State Trunk Highway 100; Thence continuing along said S.T.H. 100 right of way North 14°56'39" East a distance of 129.22 feet to a found iron pipe; Thence North 42°10'05" East a distance of 61.91 feet to a point on the South right of way line of West Bluemound Road, also known as State Trunk Highway 18; Thence continuing along said South right of way line of Bluemound Road South 86°25'17" East a distance of 172.07 feet to a point; Thence South 89°11'53" East a distance of 95.88 feet to a point; Thence South 89°11'53" East a distance of 10.47 feet to a point; Thence South 89°13'31" East a distance of 183.87 feet to a point; Thence South 86°49'41" East a distance of 129.66 feet to a point; Thence South 85°20'52" East a distance of 33.12 feet to a point; Thence North 04°39'08" East a distance of 4.00 feet to a point; Thence South 85°20'52" East a distance of 268.85 feet to a Point; Thence 519.27 feet along a curve to the left having a radius of 2924.64 feet said curve having a chord direction of North 89°33'57" East and a chord length of 518.59 feet; Thence North 84°28'45" East a distance of 655.44 feet to a point; Thence South 85°58'09" East a distance of 52.73 feet to a point; Thence North 84°28'45" East a distance of 130.50 feet to a point; Thence North 76°10'55" East a distance of 60.63 feet to a point; Thence North 84°28'45" East a distance of 174.46 feet to a point; Thence South 01°45'28" East, along the East line of said Section 29, a distance of 1377.67 feet to the SE corner of the SW 1/4 of said Section 29; Thence South 88°28'19" West, along the South line of said section 29, a distance of 2313.75 feet to a point. Thence N 17°30'30" W along the East right of way line of said railroad, 49.84 feet to the Point of Beginning.

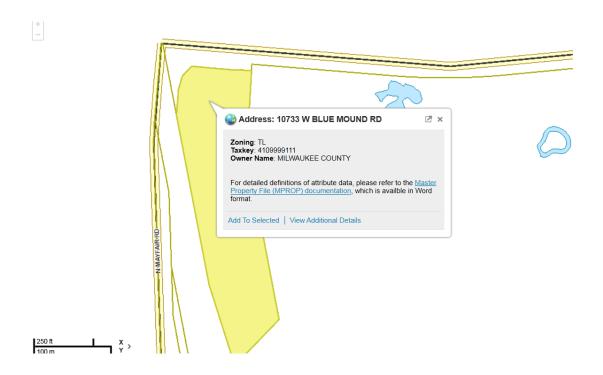
For informational purposes only:

Tax ID: 410-0001-111

Address: 10001 W Bluemound Road, Milwaukee, WI

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F.3. Verification of Zoning: Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status. Zoo-Bliffert Case Closure - GIS Registry



Parks	PK	none	9
Institutional	TL	all T districts	9
Planned Development	PD and DPD	GPD and DPD	0
Redevelopment	RED	Non	9
Neighborhood Conservation	NC	none	10
Interim Study	IS	none	10
Development Incentive	DIZ	DIZ	10
Site Plan Review	SP	SPROD	10
Flood Plain	FW, FF and FSD	FP1 and FP2	10
Shoreland- Wetland	wL	Shoreland-Wetland	10
Lakefront	LF	LF/C/60	10
Master Sign Program	MSP	none	10

There are two new categories to the EONING field in MPROP. These categories are not legal zoning codes, but rather flags for special situations

- X = A problem has been identified with the zoning assigned to this parcel. Check with the City of Milwaukee's Department of City Development for details (<u>planadmin@milwaukee.gov</u>).
- PENDING = New zoning has been applied to this parcel. This zoning change divides the existing parcel
 into multiple zoning codes, and has been approved by the City of Milwaukee Common Council based
 on an approved certified survey map (CSM). The new zoning will correspond to new parcel boundaries
 defined in the associated CSM. The new parcel boundaries will be applied to the zoning map upon
 completion of legal boundary changes by the City of Milwaukee Assessor's office. At that time, the
 new zoning will be applied to the new parcels.

STATEMENT BY RESPONSIBLE PARTY

The responsible party, Milwaukee County, for the contamination in the former Bliffert Lumber			
property located at 10733 W. Bluemound Rd in Wauwatosa Wisconsin, states that the legal			
description for the impacted property to be listed in the GIS Registry provided to the Wisconsir			
Department of Natural Resources (WDNR) in this case closure request is complete and			
accurate to the best of our knowledge. Legal Description for Tax Key #: 4109999111			
LANDS IN THE SW 1/4 SEC 29-7-21 THAT PART SD 1/4 SEC LYING BETWEEN WLY LI MILW			
COUNTY ZOO - ELY LI OF C&NW RR- THE 2012 ELY LI OF STH 100 & SLY LI OF W BLUE			
MOUND RD			
Signature of Responsible Party Date			

F. 4. Signed Statement

Table of Contents G. Notification to Owners of Impacted Properties Zoo-Bliffert Case Closure – GIS Registry

Notification to Owners of Impacted Properties is not needed for Zoo-Bliffert Case Closure Registry. No other properties have been affected by the impacts on the source property.