

Notice: Use of this form is required by the DNR for any application to develop at a historic fill site or licensed landfill pursuant to secs. NR 506.085 and NR 500.08(4), Wis. Adm. Code. The Department will not consider your application unless you provide complete information requested. Personally identifiable information collected will be used to process your application and will also be accessible by request under Wisconsin's Open Records law [ss.19.31 - 19.39, Wis. Stats.]

Instructions: See *Development at Historic Fill Sites and Licensed Landfills: What you need to know* (PUB-RR-683, April 2002) for detailed instructions.

- All Exemption Application materials should be sent to the region where the site is located, as listed on page 6.
- Include \$500 fee payment with this application unless a fee was already paid for the review of the remedial design report under the NR 700 process.
- Determine the appropriate exemption type for the site and check appropriate box below.
- Provide complete information requested for each type of exemption. Include the following attachments:
Required: Summary of Existing and Potential Impacts described in Section V as an attachment, under the seal of a professional engineer or geologist registered to practice in Wisconsin.
Optional: Site Visit Summary Comments (Section IX) including any photos, sketches or site visit notes.

Exemption Type

- Remediation and Redevelopment Program NR 700 Rule Series Process Exemption:** Site with remedial actions conducted in accordance with NR 700 series
Required: Sections I - VI **Optional:** Sections VII - X
- Case-by-Case Evaluation:** Sites with anticipated environmental impacts or wastes of special concerns
Required: Sections I - VI **Optional:** Sections VII - X
- Expedited Exemption:** Site with no expected environmental impact
Required: Sections I - VI and Form 4400-256A Expedited Exemption Application **Optional:** Sections VII - X

I. Applicant Information

Owner - Last Name WISCONSIN ELECTRIC POWER CO.	First	MI	Telephone Number 414-221-2438
Contact Name (if different) TRENT KOHL			
Street Address 333 W. EVERETT STREET	City MILWAUKEE	State WI	ZIP Code 53203
Developer - Last Name SAME AS ABOVE	First	MI	Telephone Number
Street Address	City	State	ZIP Code

II. Site Name and Location

Site Name VALLEY AREA POWER PLANT	Location / Address 1035 W. CANAL STREET
Is the site known by another name(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village of MILWAUKEE
If yes, provide name.	ZIP Code 53203 State WI
Does the site have a license number? If yes, License Number <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	County MILWAUKEE

A. Attach a map with site location and limits of fill/waste disposal area.

B. Global Positioning System Coordinates

Latitude: DEG MIN SEC 43 01 48.62N	Longitude: DEG MIN SEC 87 55 25.87W	Describe method for collecting GPS Coordinates FROM WDNR GIS SITE (CONVERTED)
--	---	---

Program Lead, Fee Status and Regulatory ID Numbers (This area for DNR use only)

<input type="checkbox"/> Waste Management Bureau	<input type="checkbox"/> Payment Attached	
<input type="checkbox"/> Remediation and Redevelopment Bureau - Exemption is part of remedy under NR 700 program	Amount	
<input type="checkbox"/> Fee already paid for review of remedial design report.	\$	
<input type="checkbox"/> Review of remedial design report not requested and payment is attached.		
Hazardous Waste Facility License ID No. (5 digits)	DNR FID No. (9 digits)	USEPA ID No. (used for both RCRA and CERCLIS #s) (WI+Alpha+9 digits)
Region	Project Manager	Telephone Number

III. Site Ownership History

Previous Owner - Last Name	First	MI	Telephone Number
Street Address	City	State	ZIP Code
Responsible Municipal / Private Operator - Last Name (if applicable)	First	MI	Telephone Number
Street Address	City	State	ZIP Code

IV. Evaluation of Existing and Potential Impacts. See Development at Historic Fill Sites and Licensed Landfill: Guidance for Investigation and Development at Historic Fill Sites and Licensed Landfill: Potential Problems and Considerations.

- A. Analytical data for the following media have been collected and/or examined before completing this application:
- | | | |
|--------------------------------------|---|--|
| 1. Groundwater: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 2. Soil: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 3. Surface water / sediment: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| 4. Air: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| 5. Methane or other explosive gases: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
- B. Based on known or suspected sources and wastes, their physical characteristics, containment and geologic environment, do you suspect a release of pollutants to the environment?
- Yes: Groundwater Soil Surface Water / Sediment Methane or Other Explosive Gases
- No **WITH EXCEPTION OF DIESEL FUEL RELEASE IN NORTHEAST QUADRANT OF SITE**
- If yes, an expedited exemption is not appropriate unless further investigation shows that a release of pollutants is not likely.
- C. If there is NOT a likelihood of a release of pollutants or evidence of a release, would the impact of the proposed development be likely to cause a release to the environment?
- Yes If yes, be sure to summarize actions to be taken to prevent adverse environmental impacts in V. Part C below.
- No

V. Summary of Existing and Potential Impacts. See Development at Historic Fill Sites and Licensed Landfill: Guidance for Investigation and Development at Historic Fill Sites and Licensed Landfill: Potential Problems and Considerations.

Describe the following in an attached narrative under the signature of a qualified professional. Organize, label and package as listed below.

A. Existing Site Conditions

1. existing site conditions including waste types,
2. potential for impacts, and
3. evaluation of existing impacts.

B. Proposed Development Summary. Include explanation for overall site decision.

C. Summary of actions to be taken and engineering controls that will prevent or minimize adverse environmental impacts and potential threats to human health and welfare, including worker safety.

VI. Certification of Application Information

I certify that information in this application and all its attachments is true and correct and in conformity with applicable Wis. statutes.

Print / Type Name of Applicant

TRENT A. KOHL

Applicant Signature Trent A. Kohl Date Signed 5/15/03

Sections VII - IX are optional for all Applicants.

VII. Current and Historic Type of Waste Disposal Site (Check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> Licensed Landfill | <input type="checkbox"/> One-time Disposal |
| <input type="checkbox"/> Non-approved (See s.289.01(3)), Wis Stats. | <input type="checkbox"/> Construction / Demolition |
| <input type="checkbox"/> Approved | <input checked="" type="checkbox"/> Historic Fill Site |

- | | |
|--|--|
| Liner | Total Landfill Volume |
| <input checked="" type="checkbox"/> Unlined | <input checked="" type="checkbox"/> < 50,000 yd ³ |
| <input type="checkbox"/> Lined | <input type="checkbox"/> 50,000-500,000 yd |
| <input type="checkbox"/> Composite Liner | <input type="checkbox"/> > 500,000 yd ³ |
| <input type="checkbox"/> Other Liner (Describe): _____ | |
| <input type="checkbox"/> Clay Liner | |
| <input type="checkbox"/> Unengineered | |

- Does the landfill have a closure plan? Yes No Unknown
- Does the landfill have a groundwater monitoring plan? Yes No Unknown
- Have groundwater monitoring wells been installed? Yes No Unknown

Was a cover installed? Yes No If no, go to Past Land Uses.

- Composite cap
- Layered soil cap with clay barrier
- Clay cap
- Soil cap - not recompacted clay
- Other cover
- Unknown

What is the thickness of the cover? <6 in 6-12 in 12-24 in >24 in Unknown

Past Land Uses. (Check all that apply)

- | | | |
|--|--|---|
| <input type="checkbox"/> Agricultural co-op | <input type="checkbox"/> Electroplater | <input type="checkbox"/> Salvage yard |
| <input type="checkbox"/> Brush pile | <input type="checkbox"/> Lagoon | <input type="checkbox"/> Service Station |
| <input type="checkbox"/> Bulk plant | <input type="checkbox"/> Manufacturing Type: _____ | <input type="checkbox"/> Tannery |
| <input type="checkbox"/> Coal gas manufacturer | <input type="checkbox"/> Old burn pit | <input checked="" type="checkbox"/> Unknown |
| <input type="checkbox"/> Deer pit | <input type="checkbox"/> Pipeline | <input checked="" type="checkbox"/> Other: <u>POWER PLANT</u> |
| <input type="checkbox"/> Dry cleaner | <input type="checkbox"/> RCRA generator | |

Date(s) of Site Operation	No. of Years	<input checked="" type="checkbox"/> Unknown
From: _____ To: _____		

VIII. Waste Information & Geologic Environment. See Development at Historic Fill Sites and Licensed Landfills: Guidance for Investigation

A. Known or Suspected Sources/Wastes. (Check all that apply)

- | | | |
|--|---|--|
| <input type="checkbox"/> Abandoned containers | <input type="checkbox"/> Known or suspected hazardous materials | <input type="checkbox"/> Demolition/construction waste |
| <input type="checkbox"/> Above ground pipeline or tank | <input type="checkbox"/> Municipal waste | <input type="checkbox"/> Surface impoundment/lagoons |
| <input type="checkbox"/> Animal carcasses | <input type="checkbox"/> Paper mill sludge | <input checked="" type="checkbox"/> Underground pipeline or tank |
| <input type="checkbox"/> Buried drums | <input type="checkbox"/> Transformer | <input checked="" type="checkbox"/> Exempted fill (NR 500.08(1) and (2)) |
| <input type="checkbox"/> Burning of materials | <input type="checkbox"/> Trees/brush | <input type="checkbox"/> Unknown |
| <input checked="" type="checkbox"/> Foundry sand | <input checked="" type="checkbox"/> Surface spills | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Industrial accident | <input type="checkbox"/> Fly ash | |

B. Physical Characteristics of Sources/Wastes

- Liquid Solid Liquid & Solid Unknown

VIII. Waste Information & Geologic Environment (continued)

C. Waste Containment Liner Unknown Not applicable
 Engineered cover ASHALT & CONCRETE ON Functioning leachate collection & removal system
 Maintained Not maintained PORTIONS OF SITE Functioning & maintained run-off management system
 Functioning groundwater monitoring system

D. Soil Type: Estimate distances or determinations based on regional or site specific information.

Regional Site specific

Clay, silt or other fine grained soils present? (lacustrine, tills, etc.) Yes No

At surface? Yes No At depth? Yes No 6-35 feet

Sand & gravel, coarse grained soils present? Yes No

At surface? Yes No At depth? Yes No 23-26 feet

E. Depth to Groundwater

Regional Site specific 4-8 feet

F. Direction of Groundwater Flow

Regional Site specific EASTERLY direction

G. Depth to Bedrock

Regional Site specific >75 FEET direction

H. Bedrock Type

Regional Site specific Sandstone Limestone/Dolomite Metamorphic/Igneous

IX. Site Visit

Conduct a site visit to complete site screening and determine general site conditions, on-site activities and adjacent land use encroachment issues. As appropriate to document the site, take photos, sketch the site and prepare a Site Visit Report.

On-site visit conducted? Yes No

General site conditions: Document any observed releases and note whether or not you were able to walk the site. Examples of things to be aware of include the following:

- leachate seeps or evidence of seeps such as stained soil/vegetation
- stressed vegetation as a sign of gas migration to the surface or of leachate seeps;
- quality and coverage of vegetation on the cap;
- odors which may indicate gas migration to the atmosphere;
- erosion of the cap;
- maintenance of positive drainage over the capped area;
- visual desiccation cracks in the cap.

Attach the following to your application:

Photographs, regular or digital Site sketch Site Visit Report

Name(s) of Person(s) Conducting Site Visit

BRIAN HENNINGS/JASON HEINONEN

Date of Site Visit

MARCH/APRIL 2003

IX. Site Visit (continued)

A. Adjacent Land Uses. Indicate all directions. (Check all that apply)

<input type="checkbox"/> Agricultural	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input checked="" type="checkbox"/> Industrial	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> S	<input checked="" type="checkbox"/> E	<input checked="" type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Recreational	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Residential	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Undeveloped	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Commercial	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Other: _____	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW

B. Potential Groundwater Receptors. Estimate distances. (1 mile = 5,280 ft)

Distance to and direction of nearest municipal well: _____ feet > ½ mile from the waste N direction

Distance to and direction of nearest other-than-municipal well: 100 feet > ½ mile from the waste E direction

Distance to and direction of nearest non-community well: _____ feet > ½ mile from the waste N direction

Distance to and direction of nearest private well: _____ feet > ½ mile from the waste N direction

Distance to and direction of nearest residence: _____ feet > ½ mile from the waste N direction

C. Potential For Gas Migration

 0 No. of homes within 300 feet of waste (gas migration potential)

 0 No. of homes between 300 & 1,000 ft to waste (gas migration potential)

Distance to and direction of nearest building: 0 feet > ½ mile from the waste _____ direction

Type of building: On-site building Municipal Residential Commercial Industrial Unknown

D. Potential Surface Water Receptors. Estimate distances.

Creek: _____ feet Drainage ditch: _____ feet Intermittent stream _____ feet

River: 100 feet Lake: _____ feet Wetland: _____ feet

E. Based on the site visit, did you visually observe...

1. a release to a surface water body? Yes No Unknown

2. a leachate seep? Yes No Unknown

3. a release to soils? Yes No Unknown

X. Comments: Use this section to provide comments on any aspect of the site visit. Attach any information or explanations labeled with the appropriate section number to which the material applies.

Region Map

NORTHERN REGION
 Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 107 Sutliff Avenue
 Rhinelander, WI 54501
 (715) 365-8943

OR
 Regional Waste Program Manager
 Department of Natural Resources
 107 Sutliff Avenue
 Rhinelander WI 54501
 (715)365-8911

NORTHEAST REGION
 Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 1125 N. Military Avenue
 Green Bay, WI 54307
 (920) 492-5860

OR
 Regional Waste Program Manager
 Department of Natural Resources
 1298 Lombardi Avenue
 Green Bay WI 53704
 (920)492-5870

SOUTHEAST REGION
 Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 P.O. Box 12436
 Milwaukee, WI 53212-0436
 (414) 263-8561 or (414)263-8714

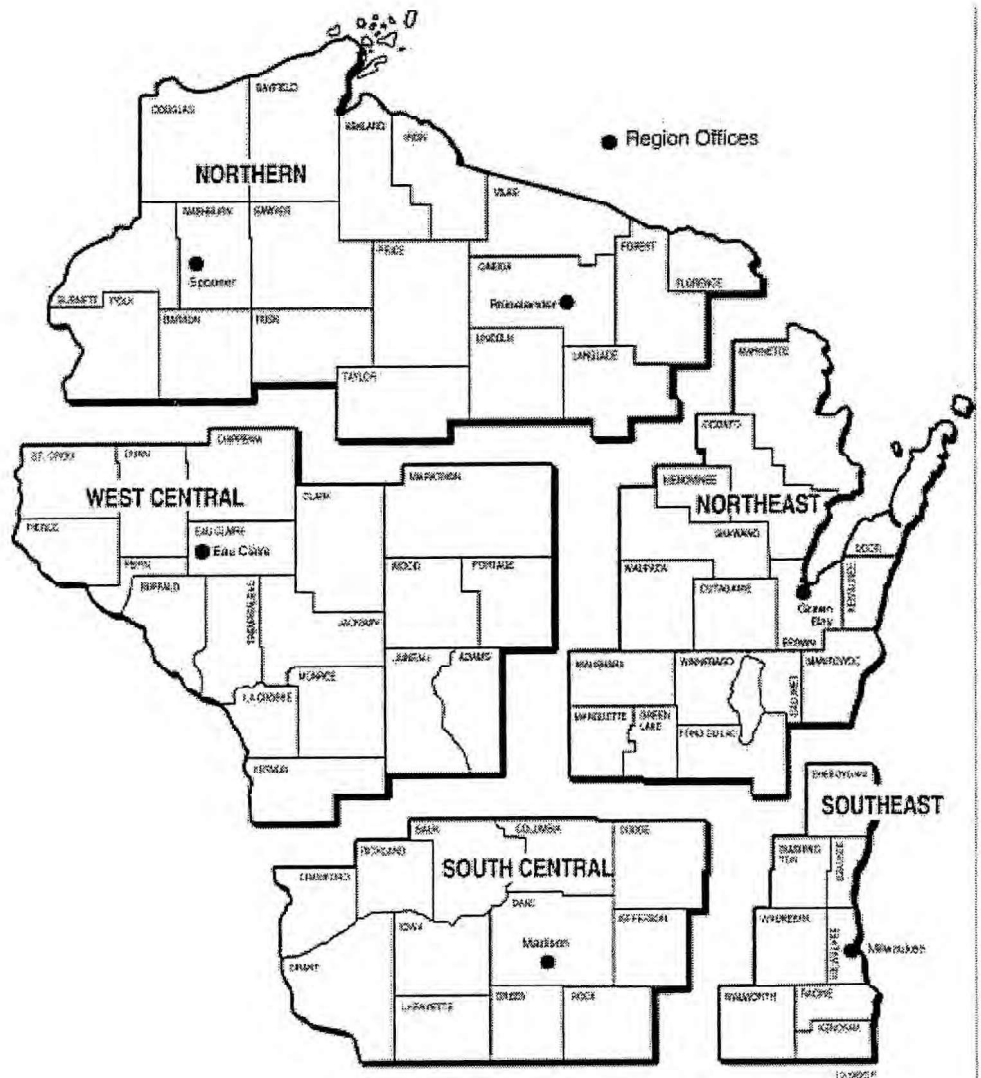
OR
 Regional Waste Program Manager
 Department of Natural Resources
 P.O. Box 12436
 Milwaukee WI 53212-0436
 (414)263-8694 or (414)263-8697

WEST CENTRAL REGION
 Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 1300 Clairmont Avenue
 Eau Claire, WI 54702
 (715) 839-3710

OR
 Regional Waste Program Manager
 Department of Natural Resources
 1300 Clairmont Avenue
 Eau Claire WI 54702
 (715)839-3708

SOUTH CENTRAL REGION
 Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 3911 Fish Hatchery Rd.
 Fitchburg, WI 53711
 (608) 275-3241

OR
 Regional Waste Program Manager
 Department of Natural Resources
 3911 Fish Hatchery Road
 Fitchburg WI 53711
 (608)275-3466



Region Map

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 Milwaukee WI 53212-0436
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WEST CENTRAL REGION

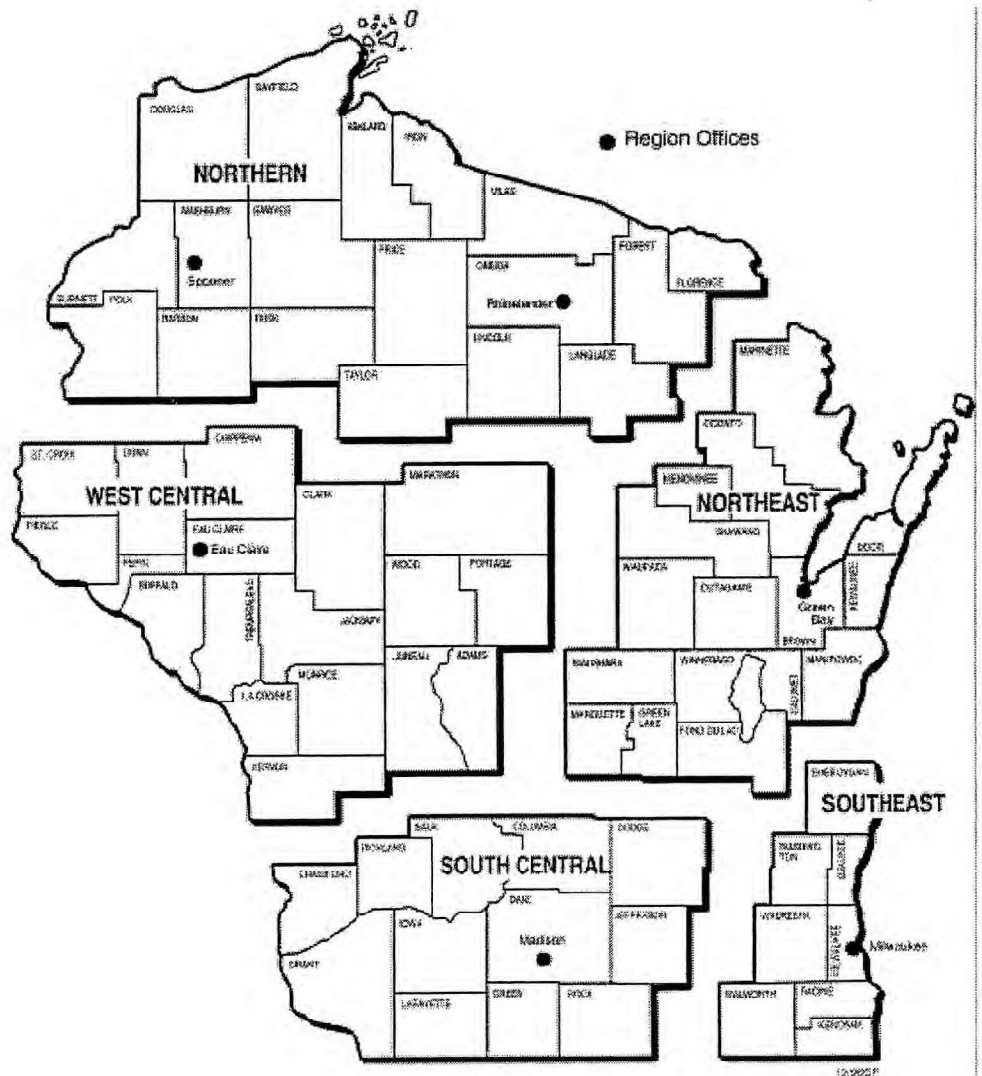
Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 1300 Clairemont Avenue
 Eau Claire, WI 54702
 (715) 839-3710
OR

Regional Waste Program Manager
 Department of Natural Resources
 1300 Clairemont Avenue
 Eau Claire WI 54702
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Required: Summary of Existing and Potential Impacts described in Section V as an attachment, under the seal of a professional engineer or geologist registered to practice in Wisconsin.
Optional: Site Visit Summary Comments (Section IX) including any photos, sketches or site visit notes.

Exemption Type

- Remediation and Redevelopment Program NR 700 Rule Series Process Exemption:** Site with remedial actions conducted in accordance with NR 700 series
Required: Sections I - VI **Optional:** Sections VII - X
- Case-by-Case Evaluation:** Sites with anticipated environmental impacts or wastes of special concerns
Required: Sections I - VI **Optional:** Sections VII - X
- Expedited Exemption:** Site with no expected environmental impact
Required: Sections I - VI and Form 4400-256A Expedited Exemption Application **Optional:** Sections VII - X

I. Applicant Information

Owner - Last Name WISCONSIN ELECTRIC POWER CO.		First	MI	Telephone Number
Contact Name (if different) TRENT KOHL				
Street Address 333 W. EVERETT STREET		City MILWAUKEE		State WI
				ZIP Code 53203
Developer - Last Name SAME AS ABOVE		First	MI	Telephone Number
Street Address		City		State
				ZIP Code

II. Site Name and Location

Site Name VALLEY AREA POWER PLANT		Location / Address 1035 W. CANAL STREET		
Is the site known by another name(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village of MILWAUKEE		
If yes, provide name.		ZIP Code 53203	State WI	
Does the site have a license number? If yes, License Number <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown		County MILWAUKEE		

A. Attach a map with site location and limits of fill/waste disposal area.

B. Global Positioning System Coordinates

Describe method for collecting GPS Coordinates

Latitude: DEG MIN SEC Longitude: DEG MIN SEC
 43 01 48.62N 87 55 25.87W

FROM WDNR GIS SITE (CONVERTED)

Program Lead, Fee Status and Regulatory ID Numbers (This area for DNR use only)

<input type="checkbox"/> Waste Management Bureau	<input type="checkbox"/> Remediation and Redevelopment Bureau - Exemption is part of remedy under NR 700 program	<input type="checkbox"/> Payment Attached
<input type="checkbox"/> Fee already paid for review of remedial design report.	<input type="checkbox"/> Review of remedial design report not requested and payment is attached.	Amount: \$
Hazardous Waste Facility License ID No. (5 digits)	DNR FID No. (9 digits)	USEPA ID No. (used for both RCRA and CERCLIS #s) (WI+Alpha+9 digits)
Region	Project Manager	Telephone Number

III. Site Ownership History

Previous Owner - Last Name	First	MI	Telephone Number
Street Address	City		State ZIP Code
Responsible Municipal / Private Operator - Last Name (if applicable)	First	MI	Telephone Number
Street Address	City		State ZIP Code

IV. Evaluation of Existing and Potential Impacts. See Development at Historic Fill Sites and Licensed Landfill: Guidance for Investigation and Development at Historic Fill Sites and Licensed Landfill: Potential Problems and Considerations.

- A. Analytical data for the following media have been collected and/or examined before completing this application:
1. Groundwater: Yes No
 2. Soil: Yes No
 3. Surface water / sediment: Yes No
 4. Air: Yes No
 5. Methane or other explosive gases: Yes No
- B. Based on known or suspected sources and wastes, their physical characteristics, containment and geologic environment, do you suspect a release of pollutants to the environment?
- Yes: Groundwater Soil Surface Water / Sediment Methane or Other Explosive Gases
- No **WITH EXCEPTION OF DIESEL FUEL RELEASE IN NORTHEAST QUADRANT OF SITE**
- If yes, an expedited exemption is not appropriate unless further investigation shows that a release of pollutants is not likely.
- C. If there is NOT a likelihood of a release of pollutants or evidence of a release, would the impact of the proposed development be likely to cause a release to the environment?
- Yes If yes, be sure to summarize actions to be taken to prevent adverse environmental impacts in V. Part C below.
- No

V. Summary of Existing and Potential Impacts. See Development at Historic Fill Sites and Licensed Landfill: Guidance for Investigation and Development at Historic Fill Sites and Licensed Landfill: Potential Problems and Considerations.

Describe the following in an attached narrative under the signature of a qualified professional. Organize, label and package as listed below.

- A. Existing Site Conditions
 1. existing site conditions including waste types,
 2. potential for impacts, and
 3. evaluation of existing impacts.
- B. Proposed Development Summary. Include explanation for overall site decision.
- C. Summary of actions to be taken and engineering controls that will prevent or minimize adverse environmental impacts and potential threats to human health and welfare, including worker safety.

VI. Certification of Application Information

I certify that information in this application and all its attachments is true and correct and in conformity with applicable Wis. statutes.

Print / Type Name of Applicant

TRENT A. KOHL

Applicant Signature

Date Signed

Sections VII - IX are optional for all Applicants.

VII. Current and Historic Type of Waste Disposal Site (Check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> Licensed Landfill | <input type="checkbox"/> One-time Disposal |
| <input type="checkbox"/> Non-approved (See s.289.01(3)), Wis Stats. | <input type="checkbox"/> Construction / Demolition |
| <input type="checkbox"/> Approved | <input checked="" type="checkbox"/> Historic Fill Site |

- | | |
|--|--|
| Liner | Total Landfill Volume |
| <input checked="" type="checkbox"/> Unlined | <input checked="" type="checkbox"/> < 50,000 yd ³ |
| <input type="checkbox"/> Lined | <input type="checkbox"/> 50,000-500,000 yd |
| <input type="checkbox"/> Composite Liner | <input type="checkbox"/> > 500,000 yd ³ |
| <input type="checkbox"/> Other Liner (Describe): _____ | |
| <input type="checkbox"/> Clay Liner | |
| <input type="checkbox"/> Unengineered | |

- Does the landfill have a closure plan? Yes No Unknown
 Does the landfill have a groundwater monitoring plan? Yes No Unknown
 Have groundwater monitoring wells been installed? Yes No Unknown

Was a cover installed? Yes No If no, go to Past Land Uses.

- Composite cap
- Layered soil cap with clay barrier
- Clay cap
- Soil cap - not recompacted clay
- Other cover
- Unknown

What is the thickness of the cover? <6 in 6-12 in 12-24 in >24 in Unknown

Past Land Uses. (Check all that apply)

- | | | |
|--|--|---|
| <input type="checkbox"/> Agricultural co-op | <input type="checkbox"/> Electroplater | <input type="checkbox"/> Salvage yard |
| <input type="checkbox"/> Brush pile | <input type="checkbox"/> Lagoon | <input type="checkbox"/> Service Station |
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| <input type="checkbox"/> Deer pit | <input type="checkbox"/> Pipeline | <input checked="" type="checkbox"/> Other: <u>POWER PLANT</u> |
| <input type="checkbox"/> Dry cleaner | <input type="checkbox"/> RCRA generator | |

Date(s) of Site Operation	No. of Years
From: _____ To: _____	<input checked="" type="checkbox"/> Unknown

VIII. Waste Information & Geologic Environment. - See Development at Historic Fill Sites and Licensed Landfills: Guidance for Investigation

A. Known or Suspected Sources/Wastes. (Check all that apply)

- | | | |
|--|---|--|
| <input type="checkbox"/> Abandoned containers | <input type="checkbox"/> Known or suspected hazardous materials | <input type="checkbox"/> Demolition/construction waste |
| <input type="checkbox"/> Above ground pipeline or tank | <input type="checkbox"/> Municipal waste | <input type="checkbox"/> Surface impoundment/lagoons |
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| <input type="checkbox"/> Buried drums | <input type="checkbox"/> Transformer | <input checked="" type="checkbox"/> Exempted fill (NR 500.08(1) and (2)) |
| <input type="checkbox"/> Burning of materials | <input type="checkbox"/> Trees/brush | <input type="checkbox"/> Unknown |
| <input checked="" type="checkbox"/> Foundry sand | <input checked="" type="checkbox"/> Surface spills | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Industrial accident | <input type="checkbox"/> Fly ash | |

B. Physical Characteristics of Sources/Wastes

- Liquid Solid Liquid & Solid Unknown

VIII. Waste Information & Geologic Environment (continued)

C. Waste Containment Liner Unknown Not applicable
 Engineered cover ASPHALT & CONCRETE ON PORTIONS OF SITE Functioning leachate collection & removal system
 Maintained Not maintained Functioning & maintained run-off management system
 Functioning groundwater monitoring system

D. Soil Type: Estimate distances or determinations based on regional or site specific information.

Regional Site specific

Clay, silt or other fine grained soils present? (lacustrine, tills, etc.) Yes No

At surface? Yes No At depth? Yes No 6-35 feet

Sand & gravel, coarse grained soils present? Yes No

At surface? Yes No At depth? Yes No 23-26 feet

E. Depth to Groundwater

Regional Site specific 4-8 feet

F. Direction of Groundwater Flow

Regional Site specific EASTERLY direction

G. Depth to Bedrock

Regional Site specific >75 FEET direction

H. Bedrock Type

Regional Site specific Sandstone Limestone/Dolomite Metamorphic/Igneous

IX. Site Visit

Conduct a site visit to complete site screening and determine general site conditions, on-site activities and adjacent land use encroachment issues. As appropriate to document the site, take photos, sketch the site and prepare a Site Visit Report.

On-site visit conducted? Yes No

General site conditions: Document any observed releases and note whether or not you were able to walk the site. Examples of things to be aware of include the following:

- leachate seeps or evidence of seeps such as stained soil/vegetation
- stressed vegetation as a sign of gas migration to the surface or of leachate seeps;
- quality and coverage of vegetation on the cap;
- odors which may indicate gas migration to the atmosphere;
- erosion of the cap;
- maintenance of positive drainage over the capped area;
- visual desiccation cracks in the cap.

Attach the following to your application:

Photographs, regular or digital Site sketch Site Visit Report

Name(s) of Person(s) Conducting Site Visit
BRIAN HENNINGS/JASON HEINONEN

Date of Site Visit
MARCH/APRIL 2003

IX. Site Visit (continued)

A. Adjacent Land Uses. Indicate all directions. (Check all that apply)

<input type="checkbox"/> Agricultural	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input checked="" type="checkbox"/> Industrial	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> S	<input checked="" type="checkbox"/> E	<input checked="" type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Recreational	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Residential	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Undeveloped	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Commercial	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW
<input type="checkbox"/> Other: _____	<input type="checkbox"/> N	<input type="checkbox"/> S	<input type="checkbox"/> E	<input type="checkbox"/> W	<input type="checkbox"/> NE	<input type="checkbox"/> NW	<input type="checkbox"/> SE	<input type="checkbox"/> SW

B. Potential Groundwater Receptors. Estimate distances. (1 mile = 5,280 ft)

Distance to and direction of nearest municipal well: _____ feet > ½ mile from the waste N direction

Distance to and direction of nearest other-than-municipal well: 100 feet > ½ mile from the waste E direction

Distance to and direction of nearest non-community well: _____ feet > ½ mile from the waste N direction

Distance to and direction of nearest private well: _____ feet > ½ mile from the waste N direction

Distance to and direction of nearest residence: _____ feet > ½ mile from the waste N direction

C. Potential For Gas Migration

0 No. of homes within 300 feet of waste (gas migration potential)

0 No. of homes between 300 & 1,000 ft to waste (gas migration potential)

Distance to and direction of nearest building: 0 feet > ½ mile from the waste _____ direction

Type of building: On-site building Municipal Residential Commercial Industrial Unknown

D. Potential Surface Water Receptors. Estimate distances.

Creek: _____ feet Drainage ditch: _____ feet Intermittent stream _____ feet

River: 100 feet Lake: _____ feet Wetland: _____ feet

E. Based on the site visit, did you visually observe...

1. a release to a surface water body? Yes No Unknown

2. a leachate seep? Yes No Unknown

3. a release to soils? Yes No Unknown

X. Comments: Use this section to provide comments on any aspect of the site visit. Attach any information or explanations labeled with the appropriate section number to which the material applies.

Region Map

NORTHERN REGION

Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 107 Sutliff Avenue
 Rhinelander, WI 54501
 (715) 365-8943

OR

Regional Waste Program Manager
 Department of Natural Resources
 107 Sutliff Avenue
 Rhinelander WI 54501
 (715)365-8911

NORTHEAST REGION

Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 1125 N. Military Avenue
 Green Bay, WI 54307
 (920) 492-5860

OR

Regional Waste Program Manager
 Department of Natural Resources
 1298 Lombardi Avenue
 Green Bay WI 53704
 (920)492-5870

SOUTHEAST REGION

Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 P.O. Box 12436
 Milwaukee, WI 53212-0436
 (414) 263-8561 or (414)263-8714

OR

Regional Waste Program Manager
 Department of Natural Resources
 P.O. Box 12436
 Milwaukee WI 53212-0436
 (414)263-8694 or (414)263-8697

WEST CENTRAL REGION

Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 1300 Clairemont Avenue
 Eau Claire, WI 54702
 (715) 839-3710

OR

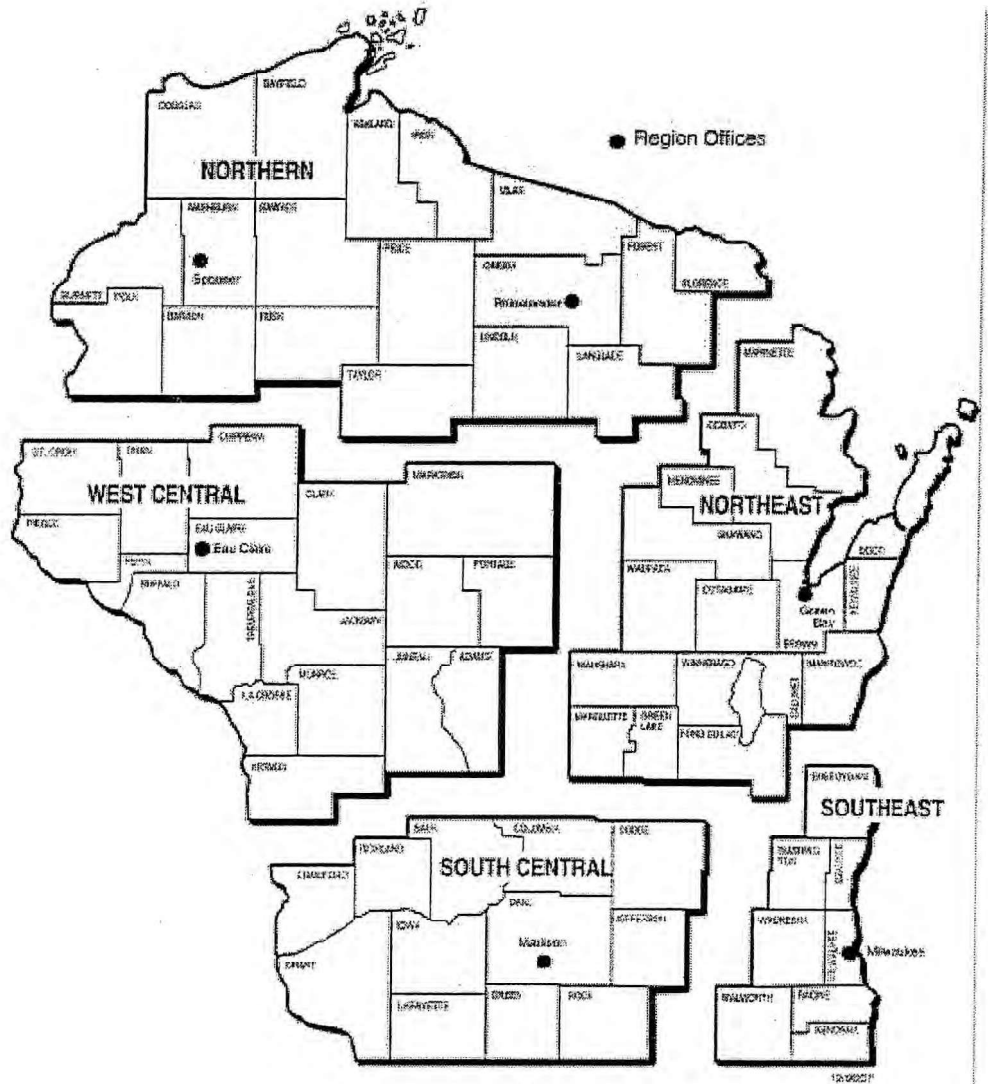
Regional Waste Program Manager
 Department of Natural Resources
 1300 Clairemont Avenue
 Eau Claire WI 54702
 (715)839-3708

SOUTH CENTRAL REGION

Remediation & Redevelopment
 Team Supervisor
 Department of Natural Resources
 3911 Fish Hatchery Rd.
 Fitchburg, WI 53711
 (608) 275-3241

OR

Regional Waste Program Manager
 Department of Natural Resources
 3911 Fish Hatchery Road
 Fitchburg WI 53711
 (608)275-3466



we energies



WE ENERGIES

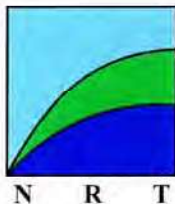
**EXEMPTION REQUEST FOR
DEVELOPMENT AT HISTORIC FILL SITE**

**VALLEY AREA POWER PLANT
MILWAUKEE, WISCONSIN**

PROJECT NO. 1609

**Natural
Resource
Technology**





**Natural
Resource
Technology, Inc.**

EXEMPTION REQUEST FOR DEVELOPMENT AT HISTORIC FILL SITE

**VALLEY AREA POWER PLANT
MILWAUKEE, WISCONSIN**

Project No: 1609

Prepared for


**We Energies
333 W. Everett Street
Milwaukee, WI 53203**

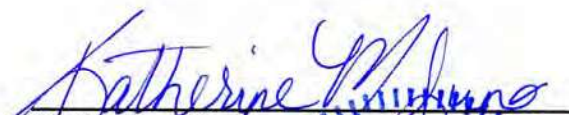


Prepared By:

**Natural Resource Technology, Inc.
23713 West Paul Rd., Suite D
Pewaukee, WI 53072**

May 12, 2003


**Jason A. Heinonen, E.I.T.
Environmental Engineer**


**Katherine M. Juno, P.G.
Senior Geologist**

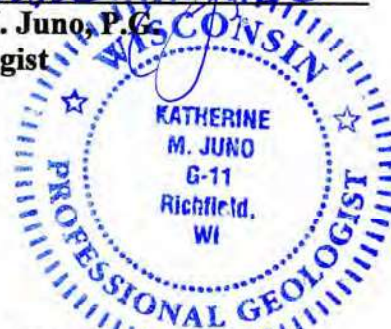


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FIGURES

Figure 1	Site Location (1609/2/A01)
Figure 2	Sample Location Plan (1609/Exemp/B01)
Figure 3	Sample Location Plan (CH2M Hill – Phase 1B Hazardous Materials Site Assessment)

TABLES

Table 1	Summary of Volatile Organic Compounds in Soils
Table 2	Soil Results – VOCs ($\mu\text{g}/\text{kg}$)
Table 3	Soil Results – PCBs ($\mu\text{g}/\text{kg}$)
Table 4	Soil Results – Metals (mg/kg)
Table 5	Summary of Total Volatile Organics in Groundwater ($\mu\text{g}/\text{L}$)

APPENDICES

Appendix A	Soil Analytical Reports
Appendix B	Groundwater Analytical Reports
Appendix C	Soil Boring Logs
Appendix D	Site Development Layout (Zimmerman Design Group)

1 INTRODUCTION

1.1 Overview

Natural Resource Technology, Inc. (NRT) has been retained by We Energies, Inc. to prepare this request for exemption to construct at the Valley Area Power Plant (VAPP) property located at 1035 W. Canal Street in Milwaukee, Wisconsin (Site). The investigation was conducted and the exemption request was prepared in accordance with WDNR fact sheets for “Development at Historic Fill Sites and Licensed Landfills” (Documents RR-683, RR-684, RR-685, Form 4400-226 and Form 4400-226A). The principal contacts for this exemption request include the following:

We Energies:

Mr. Trent Kohl – A231
Project Manager
Wisconsin Electric Power Company
333 W. Everett Street
Milwaukee, WI 53203
414.221.2438

Architect
Landscape Architect

Mr. Doug Barnes
Mr. Joe Pepitone
Zimmerman Design Group
7707 Harwood Avenue
Milwaukee, WI 53213
414.918.1300

Environmental Consultant:

Ms. Katherine Juno/Ms. Stacy Schmoldt
Natural Resource Technology, Inc.
23713 W. Paul Road
Pewaukee, WI 53072
262.523.9000

1.2 Objectives

Based on this information contained herein, further development and/or construction on this property is not expected to further impact the environment. The objective of this report is to determine the impacts of the existing fill material on the proposed project; the impacts of the development on the existing fill material; and the relationship of these impacts on human health

and the environment associated with the development site. To achieve these objectives, we have compiled and evaluated environmental information with respect to fill/soil characteristics and groundwater quality. The objectives for this request included the following:

- Evaluate the fill/soil characteristics by analyzing sample data for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyl (PCB's) and RCRA metals;
- Evaluate groundwater quality on the site; and,
- Evaluate engineering controls, which may be applicable to this site with respect to construction and development of the site with the proposed relocations and decommissioning of several facilities on site.

1.3 Background

The site proposed for redevelopment is owned by Wisconsin Electric Power Company and is located adjacent to the Marquette Interchange, which is currently under the design phase of a major reconstruction. Due to this reconstruction, plans have been developed to remove and/or relocate several existing above ground structures. We Energies intends to construct and/or relocate a diesel fuel storage tank and fueling area, a tractor shed, oil storage area, demineralized water storage tank, and a wastewater storage tank following demolition and approval of this exemption for development at a historic fill site.

The area of the site that is proposed for development is approximately 2.0 acres of the 14-acre property. The entire property is secured with a fence, with access limited to We Energies employees. Due to its location in the City of Milwaukee, the entire site resides on a historic fill area.

In addition, the site contains an area in the northeast quadrant of the site where a known diesel fuel release occurred due to faulty underground piping. This piping was removed in 1989 and has since been replaced with aboveground piping. There is currently a diesel fuel recovery system in place using bio-slurping (three phase vacuum extraction) as the method of recovery. The system has been in place since 1999, and modifications to it are expected to take place concurrent with demolition and construction activities this summer. Potential modifications may

include additional extraction well installation, upgrades to the existing pumping and/or treatment equipment, and equipment relocation.

1.4 Summary

Although the VAPP site resides on a historical fill area, there is no known contamination due to this fill material and it is not expected to lead to any in the future. The fill material does contain limited amounts of foundry sand, wood and coal fragments. The diesel fuel contamination known to exist on the eastern portion of the site is being remediated under a separate project and the extents of it should not be affected by the proposed development. In summary, the proposed development should not be affected by the historic fill area, and the development should not further impact the environment.

2 INVESTIGATION SUMMARY

2.1 Site Location

The VAPP site comprises of approximately fourteen acres in the Menomonee River Valley, southwest of downtown Milwaukee, at 1035 W. Canal Street, in the northwest quarter of Section 32, Township 7 North, Range 22 East (Figure 1). The site is bounded by Canal Street, the South Menomonee Canal, 11th Street, and the Marquette Interchange on the north, south, west, and east sides, respectively.

2.2 Site Investigation Summary

2.2.1 Soil Borings and Sampling

Within the last 10 years soil samples were collected at and adjacent to the site for various reasons. In December 1994 and March 1995, STS Consultants Ltd. collected soil and groundwater samples to evaluate environmental impacts due to a diesel fuel release that occurred at the site. Analytical results are provided in Appendix A. Several of the borings showed native organic material (peat) which is known to be capable of producing combustible methane gases. These site sampling locations are shown on Figure 2, and the results are presented in Table 1.

From November 2002 to March 2003, Milwaukee Transportation Partners completed several soil samples at locations adjacent to the site for the Marquette Interchange project (Figure 3). Several of these samples were analyzed for metals, DRO, GRO, VOCs, and PCBs, analytical results are provided in Appendix A.

In April 2003, We Energies collected a composite soil sample for profiling purposes to assist in disposal of material generated while installing the new circulating water line (locations shown on Figure 2). This sample was submitted to En Chem Inc. and analyzed for the following

parameters: metals; diesel range organics (DRO); gasoline range organics (GRO); VOCs; SVOCs; and PCBs. Analytical results are provided as Appendix A.

2.2.2 Monitoring Well Installation and Sampling

Monitoring wells MW-1 through MW-6 and piezometer PZ-1 were installed in March 1995 by STS. The monitoring wells were drilled using hollow-stem auger methods, and constructed and developed in accordance with NR 141. The wells were completed to depths of 14.5 to 15 feet bgs with 10-foot lengths of 2-inch diameter PVC screen with casing extending to the surface. Piezometer PZ-1 was completed with a 3-foot length of 2-inch diameter PVC screen to a depth of approximately 36 feet. Flush mount well covers were installed at all of the well locations. Following installation, the wells were developed and surveyed to a local site benchmark. Periodic groundwater sampling has been ongoing at the site for petroleum compounds by STS. Analytical results are represented in Table 2 and are provided in Appendix B.

3 INVESTIGATION RESULTS SUMMARY

3.1 Thickness and Extent of Fill

Soil borings installed during 1994 and 1995 had a maximum depth of 37 feet bgs, and fill was observed at all the locations. The boring logs indicate that fill generally extended from 0 to 18 feet bgs and consisted of mostly clay, silt, and sand with some coal fragments, foundry sand, and wood chips. The boring logs are included in Appendix C.

3.2 Soil Analytical Results

The soil analytical results for the soil samples collected by STS in 1994/1995 are shown on Table 1, and the laboratory analytical reports are included in Appendix A. Numerous VOCs are present in soils throughout the site, and many of these are typical petroleum constituents. To evaluate soil impacts, the reported VOC concentrations have been compared to the NR 720 RCLs or the US EPA Region IX Preliminary Remediation Goals (PRGs).

Benzene at concentrations exceeding the NR 720 RCL was detected at several locations across the site. Toluene, ethylbenzene, and xylenes were all detected at these same locations, and their presence suggests petroleum impacts, further supported by the presence of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene (together these are referred to as TMBs). The BTEX and TMB results were expected due to the known release from the leaking diesel fuel piping along the eastern edge of the property.

The results of the soil samples collected by Milwaukee Transportation Partners in 2002/2003 are shown in Tables 2 through 4, and the laboratory analytical reports are included in Appendix A. The results showed several elevated VOCs. Benzene and toluene were found above the NR 720 Residual Contamination Level (RCL) of 5.5 and 1500 µg/kg, respectively. No constituents were found above the US EPA Region IX Preliminary Remediation Goals (PRGs). No PCBs were

detected in any of the samples taken. Arsenic was the only metal detected above the NR 720 RCL of 1.6 mg/kg; it was detected between 2.1 and 34 mg/kg.

The soil analytical results for the sample collected by We Energies in April 2002 (designated VAPP-SOIL) are shown in Tables 2 through 4, and the laboratory analytical reports are included in Appendix A. This sample was located in the eastern portion of the site. The sample was tested for inorganics, DRO, GRO, TCLP Volatiles, TCLP Semivolatiles, and PCBs. The results showed relatively low-level detections of barium at 0.34 mg/L and zinc at 0.24 mg/L. Also present was DRO at 1,400 mg/kg, and GRO at 62 mg/kg, which was expected due to the location of the source material (near the diesel fuel release). The remaining constituents tested for were not present in the sample.

3.3 Groundwater Analytical Results

The groundwater analytical results from monitoring wells MW-1 through MW-6 and PZ-1 are listed on Table 5, and the laboratory analytical reports are included in Appendix B. Groundwater at the site ranges from approximately 6 to 12 feet bgs, depending on location and the surface elevation.

Benzene, MTBE, Naphthalene and chloromethane were the only VOCs detected that exceed the NR 140 Enforcement Standard (ES). In well MW-1, a benzene concentration was detected at 9.7 µg/L and chloromethane was at 6.95 µg/L. In MW-2, benzene ranged from 12 to 13.7 µg/L, MTBE ranged from 139 to 147 µg/L, and naphthalene ranged from 122 to 138 µg/L. In P-1C, one sample had a detection of benzene of 154µg/L. Additionally, ethylbenzene, methylene chloride, 1,2,4-trimethylbenzene, and chloroform exceeded the NR 140 Preventive Action Limit (PAL) at several wells. These results further confirm impacts from the former underground piping from the fuel storage tank in the eastern area of the site.

Methylene chloride exceeded the NR 140 ES in all seven monitoring wells/piezometer in January 2002, but was not detected during any other sample period, indicating a possible error in the laboratory or sampling procedures.

4 SITE DEVELOPMENT PLAN

4.1 Overview

This property will be redeveloped due to the Marquette Interchange reconstruction. Appendix D illustrates the proposed redevelopment. The soil analytical results from the site suggest little risk with direct contact with the fill based on a comparison to NR 720 RCLs for industrial sites. The results of chemical analysis of multiple rounds of groundwater samples indicates that groundwater is impacted relative to NR 140 groundwater quality standards. However, groundwater quality in the vicinity of the site has been degraded by a known leak from fuel storage tank piping, which is currently being remediated as part of a separate project.

4.2 Objectives

In order to protect the users of the on-site facility, engineering controls shall be implemented to reduce the risk of direct contact with the fill, to divert any possible combustible gases from entering buildings (from underlying organic peat soils), and to reduce surface recharge to the water table to prevent further detriment to the groundwater. Also, further remediation of the diesel fuel impacted area in the north eastern area of the site will be ongoing until closure is reached.

4.3 Foundation Design

Construction of the proposed tractor shed and other buildings using conventional spread footings or piles may require some additional measures to be taken. Other structures, including diesel, water and wastewater storage tanks, will be slab on grade foundations and will effectively serve as engineered caps. A geotechnical investigation report is being completed for the facility at this time and will be provided to WDNR once complete.

4.4 Parking and Drive Pavement Design

Pavement designs shall be constructed as recommended by the Geotechnical Investigation Report and in accordance with Wisconsin WDOT Standard Specifications for Highway and Structure Construction, including supplementals.

4.5 Surface Water Control

Pavement and soil grading shall allow for surface water to sheet flow off of the proposed development areas and flow in accordance with existing conditions.

4.6 Existing Fill Management

The grading and site redevelopment plan does not require any undercutting of existing fill material. Any fill that is disturbed for excavation of footings and utilities will be managed as solid waste and disposed at a licensed disposal facility (Waste Management's Metro Recycling and Disposal Facility).

5 FUTURE TASKS

5.1 Construction Documentation

A construction documentation report will be submitted to WDNR documenting all aspects of the engineering controls implemented for this site. The construction documentation report will include the following:

- Plan sheets documenting the locations of engineering controls installed;
- A narrative of the construction project;
- Color copies of photographs documenting major aspects of the construction; and,
- A letter under the seal of a registered professional engineer certifying that all required features have been constructed in compliance with this permit.

Any deviations from the approved plans shall be noted in the narrative and on the plan sheets.

5.2 Combustible Gas Monitoring

Although the fill beneath the site (foundry sand and coal fragments) are not expected to produce combustible gases, the underlying native organic soils (peat and to a certain extent lake marl) may produce combustible gases. Therefore, a combustible gas monitoring program will be implemented. The ambient air inside the building shall be monitored for percent methane on a quarterly basis, with results submitted to WDNR on a quarterly basis. Methane monitoring will be performed for a minimum of four quarters, after which the need for additional monitoring will be evaluated.

6 REFERENCES

- WDNR, 1987, Groundwater Sampling Procedures Guidelines, Publication PUBL-WR-153-87, 91 pages.
- WDNR, 1992, Guidance for Conducting Environmental Response Actions, Publication PUBL SW-157-92, pp. 6-1 through 6-5.
- WDNR, Chapters NR140, 141, 500, 716, Wisconsin Administrative Code.
- WDNR, April 2002, Guidance Document RR-683, *Development at Historic Fill Sites and Licensed Landfills: What You Need to Know*.
- WDNR, April 2002, Guidance Document RR-684, *Development at Historic Fill Sites and Licensed Landfills: Guidance for Investigation*.
- WDNR, April 2002, Guidance Document RR-685, *Development at Historic Fill Sites and Licensed Landfills: Considerations and Potential Problems*.
- WDNR, May 2002, Forms 4400-226 and 226A, *Development at Historic Fill Sites and Licensed Landfills – Exemption Application*.