

Shanna Laube-Anderson
Hydrogeologist – Remediation and Redevelopment
Wisconsin Department of Natural Resources
141 NW Barstow Street, Room 180
Waukesha, WI 53188

Pleasant Prairie Power Plant Well Abandonment (Coal Pile)
Pleasant Prairie Power Plant, Pleasant Prairie, WI
BRRTS#: 02-30-527479

Dear Ms. Laube-Anderson:

August 28, 2020

On behalf of We Energies, O'Brien & Gere Engineers, Inc., a Ramboll Company (Ramboll), is providing documentation of well abandonments completed August 10, 2020. A total of five wells (MW-5, MW-9, MW-10, P-1, and P-4) that were previously monitored to evaluate sulfate concentrations in groundwater were abandoned. Monitoring well abandonment forms are included in Attachment 1.

Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
USA

Abandonment documentation could not be located for MW-11 in the files, so Ramboll located the former well to determine its status. PVC at MW-11 was observed above the surface (~6 inches), but bentonite was present within the well. The top section of PVC was unscrewed and removed which resulted in the well casing being approximately 2 feet below ground surface. After removal of the casing the resulting hole was backfilled with bentonite. An abandonment form is included Attachment 1.

T 414-837-3607
F 414-837-3608
www.ramboll.com

Ref. 70068

Please contact the undersigned or Tim Muehlfeld at We Energies, 414-221-2206, if any additional information is required.

Sincerely,



Nathaniel R. Keller, PG
SME/ Technical Manager

D 414-837-3630
nate.keller@ramboll.com



Glenn R. Luke, PE
Managing Engineer

D 414-837-3545
glenn.luke@ramboll.com

Attachments

Attachment 1: Well Abandonment Forms

cc: Tim Muehlfeld, WEC Business Services, LLC

**ATTACHMENT 1
WELL ABANDONMENT FORMS**

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

Verification Only of Fill and Seal
Soil Boring or Well ID: MW-5

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

1. Well Location Information **2. Facility / Owner Information**

County: Kenosha WI Unique Well # of Removed Well: _____ Hicap #: _____

Facility Name: Pleasant Prairie Power Plant Ash Landfill

Latitude / Longitude (see instructions): 42.541147° N, -87.905939° W
Format Code: DD, DDM
Method Code: GPS008, SCR002, OTH001

Facility ID (FID or PWS): 230056310

1/4 / 1/4 SE/SW or Gov't Lot #: _____ Section: 16 Township: 1 N Range: 22, E, W

License/Permit/Monitoring #: 2786

Well Street Address: 8000 95th Street

Original Well Owner: WEC Energy Group

Well City, Village or Town: Pleasant Prairie Well ZIP Code: 53158

Present Well Owner: WEC Energy Group

Subdivision Name: _____ Lot #: _____

Mailing Address of Present Owner: 333 W Everett Street

Reason for Removal from Service: Site Closure WI Unique Well # of Replacement Well: _____

City of Present Owner: Milwaukee State: WI ZIP Code: 53203

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy): 01/16/1992
 Water Well
 Borehole / Drillhole If a Well Construction Report is available, please attach.

4. Pump, Liner, Screen, Casing & Sealing Material

Construction Type: Drilled, Driven (Sandpoint), Dug, Other (specify): _____

Pump and piping removed? Yes No N/A
Liner(s) removed? Yes No N/A
Liner(s) perforated? Yes No N/A
Screen removed? Yes No N/A
Casing left in place? Yes No N/A

Formation Type: Unconsolidated Formation, Bedrock

Was casing cut off below surface? Yes No N/A
Did sealing material rise to surface? Yes No N/A
Did material settle after 24 hours? Yes No N/A
If yes, was hole retopped? Yes No N/A
If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Total Well Depth From Ground Surface (ft.): 27.20 Casing Diameter (in.): 2.07

Required Method of Placing Sealing Material: Conductor Pipe-Gravity, Conductor Pipe-Pumped, Screened & Poured (Bentonite Chips), Other (Explain): _____

Lower Drillhole Diameter (in.): 8.3 Casing Depth (ft.): 27.20

Sealing Materials: Neat Cement Grout, Concrete, Sand-Cement (Concrete) Grout, Bentonite Chips

Was well annular space grouted? Yes, No, Unknown

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips, Bentonite - Cement Grout, Granular Bentonite, Bentonite - Sand Slurry

If yes, to what depth (feet)? _____ Depth to Water (feet): 10.92

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	27.20	50 Pounds	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing On-Site Environmental Services, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 08/10/2020	Date Received	Noted By	
Street or Route P.O. Box 280	Telephone Number (608) 837-8992	Comments			
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Observed by: <i>Kyle Scharfer</i>	Date Signed 8/25/2020	

Facility/Project Name <u>WPCO NR-213</u>	Local Grid Location of Well <u>1816.1</u> ft. <u>N</u> <u>259.3</u> ft. <u>W</u>	Well Name <u>MW-5</u>
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. <u>42° 32' 28"</u> Long. <u>87° 54' 21"</u> or	Wis. Unique Well Number: DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	St. Plane <u>204316.1</u> ft. N. <u>2564358.5</u> ft. E.	Date Well Installed <u>0</u> <u>1</u> <u>16</u> / <u>9</u> <u>2</u> m m d d y y
Distance Well Is From Waste/Source Boundary ft.	Section Location of Waste/Source <u>SE 1/4 of SW 1/4 of Sec. 16, T. 1 N, R. 22 E.</u>	Well Installed By: (Person's Name and Firm) <u>Rick Phillips</u> <u>Fugro-McClelland</u>
Is Well A Point of Enforcement Sid. Application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation <u>686.70</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation PVC <u>686.63</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>5.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>684.7</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom <u>681.7</u> ft. MSL or <u>3.0</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Annular space seal <input type="checkbox"/> Other <input type="checkbox"/>
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: (see below) Granular Bentonite <input type="checkbox"/> 33 a. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 b. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 c. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 d. <u>1.3</u> Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	Note: f. How installed: Tremie <input type="checkbox"/> 01 *Bentonite and annular space seals form one continuous seal to ground Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. <u>3/4 in. bentonite chips</u> Other <input checked="" type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. <u>N/A</u> b. Volume added <u>N/A</u> ft ³
Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. <u>All Purpose Sand Co.</u> b. Volume added <u>4.4</u> ft ³
17. Source of water (attach analysis): <u>Plant water to clear bridging</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or _____ ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>N/A</u> ft.	b. Manufacturer <u>Johnson</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>15.0</u> ft.
G. Filter pack, top <u>676.7</u> ft. MSL or <u>8.0</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>Gullbuster covered</u> Other <input checked="" type="checkbox"/>
H. Screen joint, top <u>674.7</u> ft. MSL or <u>10.0</u> ft.	
I. Well bottom <u>659.7</u> ft. MSL or <u>25.0</u> ft.	
J. Filter pack, bottom <u>659.7</u> ft. MSL or <u>25.0</u> ft.	
K. Borehole, bottom <u>656.7</u> ft. MSL or <u>28.0</u> ft.	
L. Borehole, diameter <u>7.25</u> in.	
M. O.D. well casing <u>2.00</u> in.	
N. I.D. well casing <u>1.90</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature John Pusk Firm Woodward Clyde

Facility/Project Name WEPCO NR-213 PPPP		License/Permit/Monitoring Number		Boring Number MW-5	
Boring Drilled By (Firm name and name of crew chief) Furgo McClelland		Date Drilling Started 01/16/92 MM DD YY		Date Drilling Completed 01/16/92 MM DD YY	
DNR Facility Well No.		WI Unique Well No.		Common Well Name MW-5	
Final Static Water Level		Surface Elevation 684.7 Feet MSL		Borehole Diameter 7 1/4 inches	
Boring Location State Plane 204316.1 N, 2564358.5 E S/C/N		Lat 42° 32' 28"		Local Grid Location (if applicable) 1816. Feet <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W 259.3 Feet	
1/4 of 1/4 of Section T N, R E/W		DNR County Code 30		Civil Town/City/ or Village Pleasant Prairie	
County Kenosha					

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Cuttings - Silty fine to coarse sand and fine gravel, dry	SP										
			2	- becomes Dring silty CLAY, moist at approx. 2'	CL										
			3	Till											
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												

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

Signature John Peadar Firm Woodward Clyde

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

Verification Only of Fill and Seal

Soil Boring or Well ID: MW-9

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

1. Well Location Information **2. Facility / Owner Information**

County: Kenosha WI Unique Well # of Removed Well: J G 2 2 9 Hicap #

Facility Name: Pleasant Prairie Power Plant Ash Landfill

Latitude / Longitude (see instructions): 42.535218° N -87.911265° W
 Format Code: DD DDM
 Method Code: GPS008 SCR002 OTH001

Facility ID (FID or PWS): 230056310
 License/Permit/Monitoring #: 2786

1/4 / 1/4 NW/NE 1/4 Section 21 Township 1 N Range 22 E W

Original Well Owner: WEC Energy Group

Well Street Address: 8000 95th Street

Present Well Owner: WEC Energy Group

Well City, Village or Town: Pleasant Prairie Well ZIP Code: 53158

Mailing Address of Present Owner: 333 W Everett Street

Subdivision Name Lot #

City of Present Owner: Milwaukee State: WI ZIP Code: 53203

Reason for Removal from Service: Site Closure WI Unique Well # of Replacement Well

4. Pump, Liner, Screen, Casing & Sealing Material

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy): 12/01/2000
 Water Well If a Well Construction Report is available, please attach.
 Borehole / Drillhole

Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Liner(s) perforated? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): _____

Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Formation Type:
 Unconsolidated Formation Bedrock

Required Method of Placing Sealing Material:
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Total Well Depth From Ground Surface (ft.): 34.55 Casing Diameter (in.): 2.07

Sealing Materials:
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

Lower Drillhole Diameter (in.): 8.3 Casing Depth (ft.): 34.55

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? Depth to Water (feet): 14.55

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	34.55	50 Pounds	

6. Comments

Well vault removed.

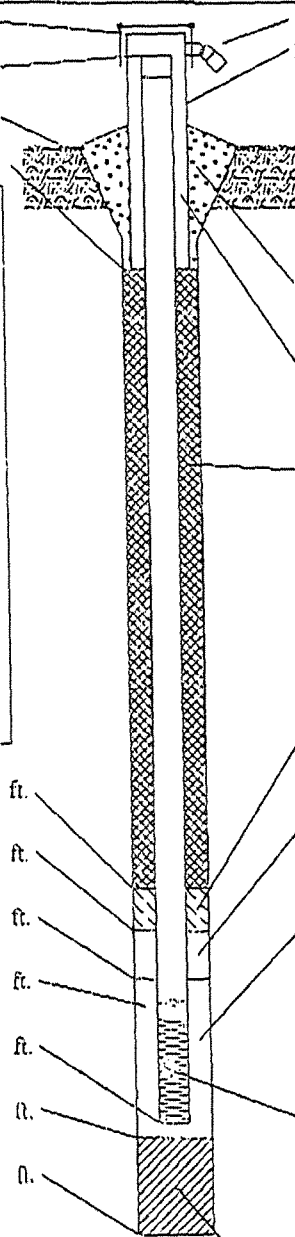
7. Supervision of Work

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing On-Site Environmental Services, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 08/10/2020	Date Received	Noted By
Street or Route P.O. Box 280	Telephone Number (608) 837-8992	Comments		
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Observed by: <i>Kyle Schaefer</i>	Date Signed 8/25/2020

Facility/Project Name: P4 Power Plant
 Facility License, Permit or Monitoring No.: _____
 Facility ID: 10792
 Type of Well: Well Code 11/nw
 Distance Well Is From Waste/Source Boundary: approximate 2900 ft.
 Local Grid Location of Well: _____ ft. _____ ft. _____ ft. _____ ft.
 Grid Origin Location: _____ (Check if estimated:)
 Lat. _____ Long. _____ or _____
 St. Plane: 202522.6 ft. N, 2511472.7 ft. E. S/C/N
 Section Location of Waste/Source: NW 1/4 of NE 1/4 of Sec. 21 T. 1 N. R. 22
 Location of Well Relative to Waste/Source:
 u Upgradient s Sidegradient
 d Downgradient n Not Known

Well Name: MW-9
 Wis. Unique Well No. 16229 DNR Well Number _____
 Date Well Installed: 12/01/2000
 Well Installed By: (Person's Name and Firm)
L. Erdman
Boart Longyear

A. Protective pipe, top elevation: 688.41 ft. MSL
 B. Well casing, top elevation: 2.00 ft. MSL
 C. Land surface elevation: 686.5 ft. MSL
 D. Surface seal, bottom: _____ ft. MSL or 3.0 ft.
 12. USC classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock
 13. Sieve analysis attached? L: Yes No
 14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other
 15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99
 16. Drilling additives used? Yes No
 Describe: _____
 17. Source of water (attach analysis):
House Water From Plant



E. Bentonite seal, top: 672.5 ft. MSL or 0.5 ft.
 F. Fine sand, top: 672 ft. MSL or 14.5 ft.
 G. Filter pack, top: 670 ft. MSL or 16.5 ft.
 H. Screen joint, top: 668 ft. MSL or 18.5 ft.
 I. Well bottom: 653 ft. MSL or 33.5 ft.
 J. Filter pack, bottom: 651.5 ft. MSL or 35.0 ft.
 K. Borehole, bottom: 651.5 ft. MSL or 35.0 ft.
 L. Borehole, diameter: 8.0 in.
 M. O.D. well casing: 2.37 in.
 N. I.D. well casing: 2.06 in.

1. Cap and lock? Yes No
 2. Protective cover pipe:
 a. Inside diameter: 4.0 in.
 b. Length: 7.0 ft.
 c. Material: Steel 04
 Other _____.
 d. Additional protection? Yes No
 If yes, describe: _____
 3. Surface seal: Bentonite 30
 Concrete 01
 Other _____.
 4. Material between well casing and protective pipe:
 Bentonite 30
#30 Sand Other _____.
 5. Annular space seal:
 a. Granular Bentonite 33
 b. ____ Lbs/gal mud weight. Bentonite-sand slurry 35
 c. ____ Lbs/gal mud weight. Bentonite slurry 31
 d. ____ % Bentonite. Bentonite-cement grout 50
 e. ____ Ft³ volume added for any of the above
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08
 6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 32
 c. Other _____.
 7. Fine sand material: Manufacturer, product name and mesh size:
 a. #7 Badger
 b. Volume added ____ ft³
 8. Filter pack material: Manufacturer, product name and mesh size:
 a. #30 American Materials
 b. Volume added ____ ft³
 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other _____.
 10. Screen material: PVC
 a. Screen Type: Factory cut 11
 Continuous slot 01
 Other _____.
 b. Manufacturer: Boart Longyear
 c. Slot size: 0.010 in.
 d. Slotted length: 15.0 ft.
 11. Backfill material (below filter pack): None 14
 Other _____

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

Signature: [Handwritten Signature]

Firm: Boart Longyear
 101 Alderson St. Schofield, WI 54476

Tel: (715)359-7090
 Fax: (715)355-3715

Please complete both forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name P4 Power Plant		License/Permit/Monitoring Number		Boring Number MW-9	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear - L. Erdman		Date Drilling Started 12/1/2000		Date Drilling Completed 12/1/2000	
Drilling Method 4 1/4" HSA		WI Unique Well No. SG 229		DNR Well ID No.	
Common Well Name MW-9		Final Static Water Level 670 Feet MSL		Surface Elevation 686.5 Feet MSL	
Borehole Diameter 8.0 Inches		Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane NW 1/4 of NE 1/4 of Section 21, T 1 N, R 22E		Local Grid Location (if applicable) Lat. _____ " <input type="checkbox"/> N <input type="checkbox"/> S Long. _____ " <input type="checkbox"/> E <input type="checkbox"/> W	
Facility ID 10792		County Kenosha		County Code 30	
				Civil Town/City/ or Village Pleasant Prairie	

Number and Type	Length Att. & Recovered (m)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	See Log PZ-4											
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												

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


Signature *[Signature]* Firm **Boart Longyear** Tel: (715)359-7090
101 Alderson St. Schofield, WI 54476 Fax: (715)355-5715

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-9**

Use only as an attachment to Form 4400-122.

Page 3 of 3

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			33 34 35	EOB.35.0' Well Set 33.5										

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

Verification Only of Fill and Seal

Soil Boring or Well ID: MW-10

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

1. Well Location Information **2. Facility / Owner Information**

County Kenosha	WI Unique Well # of Removed Well P I 7 3 6	Hicap #	Facility Name Pleasant Prairie Power Plant Ash Landfill
Latitude / Longitude (see instructions) 42.533534° N -87.913919° W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS) 230056310
¼ / ¼ NE/NE ¼ or Gov't Lot #	Section 20	Township 1 N	Range 21 <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 8000 95th Street	Well City, Village or Town Pleasant Prairie	Well ZIP Code 53158	Original Well Owner WEC Energy Group
Subdivision Name	Lot #	City of Present Owner Milwaukee	State WI
Reason for Removal from Service Site Closure	WI Unique Well # of Replacement Well	City of Present Owner Milwaukee	State WI
		ZIP Code 53203	

3. Filled & Sealed Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 05/19/2006
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input type="checkbox"/> Borehole / Drillhole	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 25.87	Casing Diameter (in.) 2.07
Lower Drillhole Diameter (in.) 8.3	Casing Depth (ft.) 25.87
Was well annular space grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) 10.00

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input checked="" type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Concrete
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input checked="" type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	25.87	50 Pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing On-Site Environmental Services, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 08/10/2020	DNR Use Only	
			Date Received	Noted By
Street or Route P.O. Box 280		Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Observed by: <i>Kyle Scharfer</i>	Date Signed 8/25/2020

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name P4 Power Plant	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-10
Facility License, Permit or Monitoring No.	Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ Long. _____ or _____	Wis. Unique Well No. _____ DNR Well Number PI736
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 05/19/2006
Type of Well Well Code 11/mw	Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. <u>20</u> , T. <u>1</u> , N. R. <u>21</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Tony Kapugi
Distance from Waste/Source ft. _____	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____
Enf. Stds. Apply <input checked="" type="checkbox"/>		On-Site Environmental Services, Inc.

A. Protective pipe, top elevation <u>683.80</u> ft. (NGVD)		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>683.42</u> ft. (NGVD)		2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>683.8</u> ft. (NGVD)		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom <u>682.8</u> ft. (NGVD) or <u>1.0</u> ft.		3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		
13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Sand <input checked="" type="checkbox"/> Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		7. Fine sand material: Manufacturer, product name & mesh size a. <u>Red Flint #7</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): <u>n/a</u>		8. Filter pack material: Manufacturer, product name & mesh size a. <u>Uimen 30/40</u> b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. (NGVD) or _____ ft.		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
F. Fine sand, top <u>675.8</u> ft. (NGVD) or <u>8.0</u> ft.		10. Screen material: <u>Schedule 40 PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
G. Filter pack, top <u>673.8</u> ft. (NGVD) or <u>10.0</u> ft.		b. Manufacturer <u>Northern Aire</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>15.0</u> ft.
H. Screen joint, top <u>671.8</u> ft. (NGVD) or <u>12.0</u> ft.		11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
I. Well bottom <u>657.8</u> ft. (NGVD) or <u>26.0</u> ft.		
J. Filter pack, bottom <u>656.3</u> ft. (NGVD) or <u>27.5</u> ft.		
K. Borehole, bottom <u>655.8</u> ft. (NGVD) or <u>28.0</u> ft.		
L. Borehole, diameter <u>8.3</u> in.		
M. O.D. well casing <u>2.38</u> in.		
N. I.D. well casing <u>2.07</u> in.		

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

Date Modified: 6/13/2006

Signature [Signature] Firm **Natural Resource Technology, Inc.** Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name P4 Power Plant		License/Permit/Monitoring Number		Boring Number MW-10	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.			Date Drilling Started 5/19/2006	Date Drilling Completed 5/19/2006	Drilling Method hollow stem auger
WI Unique Well No. PI736	DNR Well ID No.	Common Well Name MW-10	Final Static Water Level 672.3 Feet (NGVD)	Surface Elevation 683.8 Feet (NGVD)	Borehole Diameter 8.3 inches
Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane NE 1/4 of NE 1/4 of Section 20, T 1 N, R 21 E			Lat _____"	<input type="checkbox"/> N <input type="checkbox"/> E	
			Long _____"	<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Kenosha	County Code 30	Civil Town/City/ or Village Pleasant Prairie	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties					RQD/ Comments
								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 CS	60 53		0 - 3.5'	SILT: ML, black (10YR 2/1), slow dilatancy, low toughness, nonplastic, soft, trace subrounded gravel [trace fine], moist.	ML								
			1.5'	brown (10YR 4/3), low plasticity, firm, trace sand [trace fine].									
			3.5 - 9'	LEAN CLAY: CL, brown (10YR 4/3), slow dilatancy, medium toughness, medium plasticity, firm, trace sand [trace fine, trace coarse], moist.				CL					
2 CS	60 32		9 - 10'	SILT: ML, dark yellowish brown (10YR 4/4), slow dilatancy, low toughness, low plasticity, soft, moist.	ML								
			10 - 12'	LEAN CLAY: CL, dark yellowish brown (10YR 4/4), slow dilatancy, medium toughness, medium plasticity, firm, moist to wet.				CL					
3 CS	60 49												

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

Signature Firm **Natural Resource Technology, Inc.** Tel: _____ Fax: _____

Date Modified: 6/13/2006

Template: WDNR SBL 1998 - Project: 1580 GINT.GPJ

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-10** Use only as an attachment to Form 4400-122. Page 2 of 2

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
4 CS	60 50		13	12 - 28' WELL-GRADED SAND WITH GRAVEL: (SW)g, mostly subrounded sand [little fine , little medium , some coarse], few subrounded gravel [few fine], wet.									
			14										
			15										
5 CS	60 47		16		(SW)g								
			17										
			18										
6 CS	36 30		19										
			20										
			21										
			22										
			23										
			24										
			25										
			26										
			27										
			28	28' End of Boring.									

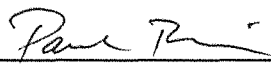
Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name P4 Power Plant	County Kenosha	Well Name MW-10	
Facility License, Permit or Monitoring Number	County Code 30	Wis. Unique Well Number PI736	DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other _____
3. Time spent developing well **60 min.**
4. Depth of well (from top of well casing) **26.0 ft.**
5. Inside diameter of well **2.07 in.**
6. Volume of water in filter pack and well casing **15 gal.**
7. Volume of water removed from well **120.0 gal.**
8. Volume of water added (if any) **0.0 gal.**
9. Source of water added not applicable
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 11.85 ft.	11.85 ft.
Date	b. 5/19/2006	5/19/2006
Time	c. 01:15 <input checked="" type="checkbox"/> p.m.	02:15 <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	4.8 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>brown</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l
16. Well developed by: Person's Name and Firm		

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>Mark Collins</u>	Signature: <u></u>
Firm: <u>WE Energies</u>	Print Name: <u>Paula Richardson</u>
Street: <u>333 W. Everett Street</u>	Firm: <u>Natural Resource Technology, Inc.</u>
City/State/Zip: <u>Milwaukee WI 53203</u>	Template: WDNR WELL DEVELOP 1998 - Project: 1580 GINT.GPJ

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

Verification Only of Fill and Seal
Soil Boring or Well ID: MW-11

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

1. Well Location Information **2. Facility / Owner Information**

County: Kenosha WI Unique Well # of Removed Well: _____ Hicap #: _____

Facility Name: Pleasant Prairie Power Plant Ash Landfill

Latitude / Longitude (see instructions): 42.541695° N Format Code: DD Method Code: GPS008
-87.913166° W DDM SCR002 OTH001

Facility ID (FID or PWS): 230056310

1/4 / 1/4 or Gov't Lot #: _____ Section: _____ Township: _____ Range: E W

License/Permit/Monitoring #: 2786

Well Street Address: 8000 95th Street

Original Well Owner: WEC Energy Group

Well City, Village or Town: Pleasant Prairie Well ZIP Code: 53158

Present Well Owner: WEC Energy Group

Subdivision Name: _____ Lot #: _____

Mailing Address of Present Owner: 333 W Everett Street

Reason for Removal from Service: Site Closure WI Unique Well # of Replacement Well: _____

City of Present Owner: Milwaukee State: WI ZIP Code: 53203

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy): 11/16/2006
 Water Well If a Well Construction Report is available, please attach.
 Borehole / Drillhole

4. Pump, Liner, Screen, Casing & Sealing Material

Construction Type: Drilled Driven (Sandpoint) Dug
 Other (specify): _____

Pump and piping removed? Yes No N/A
Liner(s) removed? Yes No N/A
Liner(s) perforated? Yes No N/A
Screen removed? Yes No N/A
Casing left in place? Yes No N/A

Formation Type: Unconsolidated Formation Bedrock

Was casing cut off below surface? Yes No N/A
Did sealing material rise to surface? Yes No N/A
Did material settle after 24 hours? Yes No N/A
If yes, was hole retopped? Yes No N/A
If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Total Well Depth From Ground Surface (ft.): 34.15 Casing Diameter (in.): 2.07

Required Method of Placing Sealing Material:
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Lower Drillhole Diameter (in.): 8.3 Casing Depth (ft.): 34.15

Sealing Materials:
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

Was well annular space grouted? Yes No Unknown

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

If yes, to what depth (feet)? _____ Depth to Water (feet): _____

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight

6. Comments

The well was abandoned previously. Upon arrival the well was filled to surface with bentonite. We removed the top 2 feet of casing by twisting off the top section of PVC. 5 lbs of bentonite chips were then added to fill the hole diameter where the casing was.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing			DNR Use Only	
On-Site Environmental Services, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 08/10/2020	Date Received	Noted By
Street or Route P.O. Box 280	City Sun Prairie	Telephone Number (608) 837-8992	Comments	
State WI	ZIP Code 53590	Signature of Person Doing Work Observed by: <i>Kyle Schaefer</i>	Date Signed 8/25/2020	

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name P4 Power Plant			License/Permit/Monitoring Number		Boring Number MW-11	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.			Date Drilling Started 11/16/2006		Date Drilling Completed 11/16/2006	Drilling Method hollow stem auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-11	Final Static Water Level Feet (NGVD)		Surface Elevation Feet (NGVD)	Borehole Diameter 8.3 inches
Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of	1/4 of Section	T	N, R	Long ° ' "		Feet <input type="checkbox"/> Feet <input type="checkbox"/> W
Facility ID		County Kenosha	County Code 30	Civil Town/City/ or Village Pleasant Prairie		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	Soil Properties						RQD/ Comments
								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 CS	60 54		0 - 0.5'	SANDY SILT : (ML)s, black (10YR 2/1), nonplastic, no dilatancy, low toughness, soft, Topsoil.	(ML)s									
			0.5 - 3'	LEAN CLAY WITH SAND : s(CL), dark yellowish brown (10YR 4/4), medium plasticity, no dilatancy, low toughness, firm, Trace sand.	s(CL)									
2 CS	60 54		3 - 8'	LEAN CLAY : ML, brown (10YR 4/3), low plasticity, slow dilatancy, low toughness, firm.	ML									
			8 - 9.5'	SILT : CL, gray (10YR 5/1), medium plasticity, no dilatancy, medium toughness, firm to hard.	CL									
3 CS	60 50		9.5 - 12.5'	POORLY-GRADED SAND : SP, yellowish brown (10YR 5/6).	SP									

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

Signature	Firm NRT	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name P4 Power Plant	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-11
Facility License, Permit or Monitoring No.	Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " or	Wis. Unique Well No. _____ DNR Well Number _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 11/16/2006
Type of Well Well Code 11/mw	Section Location of Waste/Source 10899 _____ 1/4 of _____ 1/4 of Sec. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Tony Kapugi
Distance from Waste/Source ft. _____	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____ On-Site Environmental Services, Inc.

A. Protective pipe, top elevation _____ ft. (NGVD)
B. Well casing, top elevation _____ ft. (NGVD)
C. Land surface elevation _____ ft. (NGVD)
D. Surface seal, bottom _____ ft. (NGVD) or 1.0 ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

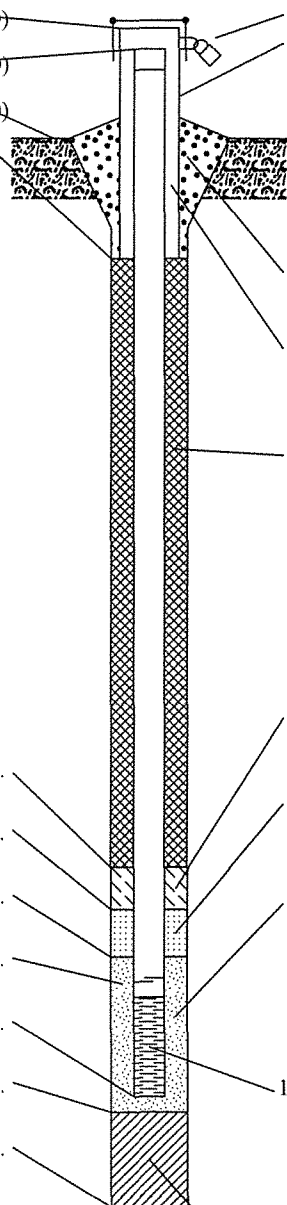
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
Hollow Stem Auger 4 1
Other

15. Drilling fluid used: Water 0 2 Air 0 1
Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis, if required):
n/a



1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 7.0 ft.
c. Material: Steel 0 4
Other

d. Additional protection? Yes No
If yes, describe: _____

3. Surface seal: Bentonite 3 0
Concrete 0 1
Other

4. Material between well casing and protective pipe:
Bentonite 3 0
Sand

5. Annular space seal: a. Granular/Chipped Bentonite 3 3
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
d. _____ % Bentonite . . . Bentonite-cement grout 5 0
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8

6. Bentonite seal: a. Bentonite granules 3 3
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint #7
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. Uimen 30/40
b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
Flush threaded PVC schedule 80 2 4
Other

10. Screen material: Schedule 40 PVC
a. Screen Type: Factory cut 1 1
Continuous slot 0 1
Other
b. Manufacturer Northern Aire
c. Slot size: 0.010 in.
d. Slotted length: 15.0 ft.

11. Backfill material (below filter pack): None 1 4
Other

E. Bentonite seal, top _____ ft. (NGVD) or 0.0 ft.
F. Fine sand, top _____ ft. (NGVD) or 14.0 ft.
G. Filter pack, top _____ ft. (NGVD) or 15.0 ft.
H. Screen joint, top _____ ft. (NGVD) or 17.0 ft.
I. Well bottom _____ ft. (NGVD) or 32.0 ft.
J. Filter pack, bottom _____ ft. (NGVD) or 32.5 ft.
K. Borehole, bottom _____ ft. (NGVD) or 32.0 ft.
L. Borehole, diameter 8.3 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature _____ Firm **NRT** Date Modified: 11/20/2006
Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

Verification Only of Fill and Seal
Soil Boring or Well ID: P-1

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

1. Well Location Information **2. Facility / Owner Information**

County Kenosha	WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (see instructions) 42.542306° N -87.898838° W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 / 1/4 NW/SE or Gov't Lot # 1/4	Section 16	Township 1 N
Well Street Address 8000 95th Street		Range 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well City, Village or Town Pleasant Prairie		Well ZIP Code 53158
Subdivision Name		Lot # _____
Reason for Removal from Service Site Closure	WI Unique Well # of Replacement Well _____	

Facility Name Pleasant Prairie Power Plant Ash Landfill		
Facility ID (FID or PWS) 230056310		
License/Permit/Monitoring # 2786		
Original Well Owner WEC Energy Group		
Present Well Owner WEC Energy Group		
Mailing Address of Present Owner 333 W Everett Street		
City of Present Owner Milwaukee	State WI	ZIP Code 53203

3. Filled & Sealed Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 01/14/1992
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input type="checkbox"/> Borehole / Drillhole	

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): _____

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.) 51.55	Casing Diameter (in.) 2.07
---	-------------------------------

Lower Drillhole Diameter (in.) 8.3	Casing Depth (ft.) 51.55
---------------------------------------	-----------------------------

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)?	Depth to Water (feet) 12.20
-------------------------------	--------------------------------

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Casing left in place?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

Required Method of Placing Sealing Material
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Sealing Materials
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Grout Cement	Surface	51.55	11 Gallons	11.5 water/ 1.5 grout

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing On-Site Environmental Services, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 08/10/2020	DNR Use Only	
Street or Route P.O. Box 280			Date Received	Noted By
City Sun Prairie			Telephone Number (608) 837-8992	Comments
State WI	ZIP Code 53590	Signature of Person Doing Work Observed by: <i>Kyle Schaefer</i>	Date Signed 8/25/2020	

Facility/Project Name WEPCO NR-213 PPPP	Local Grid Location of Well 2285.6 ft. N 2171.1 ft. E	Well Name P-1
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. 42° 32' 32" Long. 87° 53' 55" or St. Plane 204785.6 ft. N, 2566270.3 ft. E.	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Piezometer <input checked="" type="checkbox"/> 12	Section Location of Waste/Source NW 1/4 of SE 1/4 of Sec. 16, T. 1 N, R. 22 E	Date Well Installed 01/14/92 m m d y y
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) Rick Phillips Fugro McClelland
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

A. Protective pipe, top elevation -689.96 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation -689.80 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4.0 in. b. Length: 7.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation -687.9 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom -687.9 ft. MSL or -5.0 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Annular space seal <input type="checkbox"/>
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: (see below) Gravitier Bentonite <input type="checkbox"/> 33 b. 1 Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. 1 Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. 8 % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 8 Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Bentonite seal and annular seals are one continuous seal to ground surface seal Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input checked="" type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. General Material Co b. Volume added 1 ft ³
Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. All Purpose Sand Co. b. Volume added 4 ft ³
17. Source of water (attach analysis): Plant water to clear bridging	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or _____ ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top -651.9 ft. MSL or -36.0 ft.	b. Manufacturer Johnson c. Slot size: 0.010 in. d. Slotted length: 5.0 ft.
G. Filter pack, top -649.4 ft. MSL or -38.5 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Caved Sand <input checked="" type="checkbox"/>
H. Screen joint, top -643.2 ft. MSL or -44.0 ft.	
I. Well bottom -638.9 ft. MSL or -49.0 ft.	
J. Filter pack, bottom -638.9 ft. MSL or -49.0 ft.	
K. Borehole, bottom -637.9 ft. MSL or -50.0 ft.	
L. Borehole, diameter 7.25 in.	
M. O.D. well casing 2.00 in.	
N. I.D. well casing 1.90 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature John Post Firm Woodward Clyde

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., 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.

Route To:

- Solid Waste
- Emergency Response
- Waste water
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Facility/Project Name WEPCO NR-213 PPPP		License/Permit/Monitoring Number		Boring Number P-1	
Boring Drilled By (Firm name and name of crew chief) Furgo McClelland		Date Drilling Started 01/13/92 MM DD YY		Date Drilling Completed 01/14/92 MM DD YY	
DNR Facility Well No.		WI Unique Well No.		Common Well Name P-1	
Final Static Water Level		Surface Elevation 687.9 Feet MSL		Borehole Diameter 7 1/4 inches	
Boring Location State Plane 201785.6 N. 2566270.3 E S/C/N		Local Grid Location (if applicable) 2285.6 Feet <input checked="" type="checkbox"/> N <input type="checkbox"/> S 2171.1 Feet <input type="checkbox"/> E <input type="checkbox"/> W		Long 87° 58' 53"	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W		County Kenosha		DNR County Code 30	
		Civil Town/City/ or Village Pleasant Prairie			

Sample Number	Length Recovered (m)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			1	Cuttings - Brown gray, silty clay trace to some gravel in top 2' moist	CL									
			2	Till										
			3											
			4	- becomes gray, trace fine gravel										
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature: John Peck Firm: Woodward Clyde

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number	Length Recovered (ft)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	CL										
5-1	14	3 1/2 3/5	46 47 48 49 50	Gray, fine to coarse SAND, wet (probably first encountered @ 41') 10YR 4/1 Outwash	SM							14.9	Run-up noted center plug str Removed Auger Fixed center pl Replaced w/ Went use to advance augers. Sp. Grav. = 2.70 4' run-up noted upon completion. Roller bit used to clean out augers	
				Bottom of Boring @ 50' Piezometer installed @ 49'										

5' screen
4 bags sand
1 bag fine sand
1 1/4 buckets bentonite pellets

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

Verification Only of Fill and Seal
Soil Boring or Well ID: P-4

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

1. Well Location Information **2. Facility / Owner Information**

County: Kenosha WI Unique Well # of Removed Well: J G 2 2 8 Hicap #

Facility Name: Pleasant Prairie Power Plant Ash Landfill

Latitude / Longitude (see instructions): 42.535209° N, -87.911285° W
Format Code: DD, DDM
Method Code: GPS008, SCR002, OTH001

Facility ID (FID or PWS): 230056310
License/Permit/Monitoring #: 2786

1/4 / 1/4 NW/NE or Gov't Lot #: Section 21 Township 1 N Range 22 E W

Original Well Owner: WEC Energy Group

Well Street Address: 8000 95th Street

Present Well Owner: WEC Energy Group

Well City, Village or Town: Pleasant Prairie Well ZIP Code: 53158

Mailing Address of Present Owner: 333 W Everett Street

Subdivision Name: Lot #

City of Present Owner: Milwaukee State: WI ZIP Code: 53203

Reason for Removal from Service: Site Closure WI Unique Well # of Replacement Well

4. Pump, Liner, Screen, Casing & Sealing Material

3. Filled & Sealed Well / Drillhole / Borehole Information
 Monitoring Well Original Construction Date (mm/dd/yyyy): 11/30/2000
 Water Well If a Well Construction Report is available, please attach.
 Borehole / Drillhole

Pump and piping removed? Yes No N/A
Liner(s) removed? Yes No N/A
Liner(s) perforated? Yes No N/A
Screen removed? Yes No N/A
Casing left in place? Yes No N/A
Was casing cut off below surface? Yes No N/A
Did sealing material rise to surface? Yes No N/A
Did material settle after 24 hours? Yes No N/A
If yes, was hole retopped? Yes No N/A
If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Construction Type: Drilled Driven (Sandpoint) Dug
 Other (specify): _____

Required Method of Placing Sealing Material:
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Formation Type: Unconsolidated Formation Bedrock

Sealing Materials:
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

Total Well Depth From Ground Surface (ft.): 65.50 Casing Diameter (in.): 2.07

Lower Drillhole Diameter (in.): 8.3 Casing Depth (ft.): 65.50

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? Depth to Water (feet): 15.33

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Grout Cement	Surface	65.50	12 Gallons	11.5 water/ 1.5 grout

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental Services, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 08/10/2020	Date Received	Noted By
Street or Route P.O. Box 280	Telephone Number (608) 837-8992	Comments		
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Observed by: <i>Kyle Schaefer</i>	Date Signed 8/25/2020

Route To:

Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other

Facility/Project Name: P4 Power Plant
 Facility License, Permit or Monitoring No.:
 Facility ID: 10792
 Type of Well: Well Code 12/02
 Distance Well Is From Waste/Source Boundary: APPROXIMATELY 2800 ft.
 Local Grid Location of Well: _____ ft. N. _____ ft. E. _____ ft. S. _____ ft. W.
 Grid Origin Location: _____ (Check if estimated:)
 Lat. _____ Long. _____ or
 St. Plane 202114.8 ft. N, 2562971.9 ft. E. S/C/N
 Section Location of Waste/Source: NW 1/4 of NE 1/4 of Sec. 21, T. 1 N, R. 22 W
 Location of Well Relative to Waste/Source: u Upgradient s Sidegradient d Downgradient n Not Known
 Well Name: PZ-4
 Wis. Unique Well No./DNR Well Number: JG228
 Date Well Installed: 12/01/2000
 Well Installed By: (Person's Name and Firm) L. Erdman
 Boart Longyear

A. Protective pipe, top elevation: 688.5 ft. MSL Yes No
 B. Well casing, top elevation: 2.00 ft. MSL
 C. Land surface elevation: 686.5 ft. MSL
 D. Surface seal, bottom: _____ ft. MSL or 5.0 ft.
 12. USC classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock
 13. Sieve analysis attached? Yes No
 14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other
 15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99
 16. Drilling additives used? Yes No
 Describe: _____
 17. Source of water (attach analysis):
 HOUSE WATER FROM PLANT
 E. Bentonite seal, top: 633 ft. MSL or 0.5 ft.
 F. Fine sand, top: 632.5 ft. MSL or 54.5 ft.
 G. Filter pack, top: 630.5 ft. MSL or 56.5 ft.
 H. Screen joint, top: 628.5 ft. MSL or 58.5 ft.
 I. Well bottom: 623.5 ft. MSL or 63.5 ft.
 J. Filter pack, bottom: 621.5 ft. MSL or 65.0 ft.
 K. Borehole, bottom: 621.5 ft. MSL or 65.0 ft.
 L. Borehole, diameter: 8.0 in.
 M. O.D. well casing: 2.37 in.
 N. I.D. well casing: 2.06 in.
 1. Cap and lock? Yes No
 2. Protective cover pipe:
 a. Inside diameter: 4.0 in.
 b. Length: 7.0 ft.
 c. Material: Steel 04
 Other
 d. Additional protection? Yes No
 If yes, describe: _____
 3. Surface seal: Bentonite 30
 Concrete 01
 Other
 4. Material between well casing and protective pipe:
 Bentonite 30
 #30 Sand
 5. Annular space seal:
 a. Granular Bentonite 33
 b. _____ Lbs/gal mud weight . Bentonite-sand slurry 35
 c. X Lbs/gal mud weight . . . Bentonite slurry 31
 d. _____ % Bentonite . . . Bentonite-cement grout 50
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08
 6. Bentonite seal:
 a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 32
 c. _____ Other
 7. Fine sand material: Manufacturer, product name and mesh size:
 a. #7 Badger
 b. Volume added _____ ft³
 8. Filter pack material: Manufacturer, product name and mesh size:
 a. #30 American Materials
 b. Volume added _____ ft³
 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
 10. Screen material: PVC
 a. Screen Type: Factory cut 11
 Continuous slot 01
 Other
 b. Manufacturer: Boart Longyear
 c. Slot size: 0.010 in.
 d. Slotted length: 5.0 ft.
 11. Backfill material (below filter pack): None 14
 Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature: [Signature] Firm: Boart Longyear
 101 Akkerson St. Schofield, WI 54476
 Tel: (715)359-7090 Fax: (715)355-5715

Please complete both forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name P4 Power Plant		License/Permit/Monitoring Number		Boring Number PZ-4	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear - L. Erdman			Date Drilling Started 11/30/2000	Date Drilling Completed 11/30/2000	Drilling Method 4 1/4" HSA
WI Unique Well No. SG 228	DNR Well ID No.	Common Well Name PZ-1	Final Static Water Level 619.7 Feet MSL	Surface Elevation 686.5 Feet MSL	Borehole Diameter 8.0 Inches
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane NW 1/4 of NE 1/4 of Section 21, T 1 N, R 22 E			Local Grid Location (If applicable) Lat. _____ Long. _____ Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID 10792	County Kenosha	County Code 30	Civil Town/City/ or Village Pleasant Prairie		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties				RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		
1 SS	24 8	1	1	Silty CLAY and SAND										
2 SS	24 8	1	2											
3 SS	24 2	1	3											
4 SS	24 18	3	4											
5 SS	24 20	3	5											
6 SS	24 20	2	10	Gry Silty CLAY										
		3	11											

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

Signature Firm **Boart Longyear** 101 Alderson St. Schofield, WI 54476
Tel: (715)359-7090 Fax: (715)355-5715

Boring Number PZ-4

Use only as an attachment to Form 4400-122.

Page 4 of 4

Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
19 SS	24 10	10 8 7 8	53 54 55 56											
			57 58 59											
20 SS	24 14	8 9 10 10	60 61											
			62 63 64 65											
				EOB 65.0' Well Set 63.5'										