March 24, 2023
File No. 25222265.00

Mr. Bruce LeRoy
Wisconsin Department of Natural Resources
1027 W. St. Paul Ave.
Milwaukee, WI 53233

Subject: Monitoring Well Abandonment Documentation
Boundary Road Landfill
Menomonee Falls, Wisconsin
License #0011
EPA ID #WID058735994

Dear Mr. LeRoy:

On behalf of Waste Management of Wisconsin, Inc. (WMWI), SCS Engineers (SCS) is submitting the enclosed documentation for the abandonment of three monitoring wells located at the WMWI Boundary Road Landfill.

The wells were abandoned as proposed in the Plan of Operation for the Orchard Ridge Recycling and Disposal Facility (RDF) Eastern Expansion, Southern Unit, which was approved by the Wisconsin Department of Natural Resources (WDNR) on December 15, 2022.

The three monitoring wells (P101, TW2R, and TW3R) were abandoned because they were located within the area affected by the first phase of the Boundary Road Landfill waste exhumation project, which is being performed in conjunction with construction of the Orchard Ridge East Expansion, Southern Unit.

In accordance with Wisconsin Administrative Code NR 507.04(2), SCS provided a professional geologist or qualified technician directly supervised by a professional geologist to observe the abandonment of the wells. The abandonment complied with NR 507.08. The monitoring well abandonment forms are included in Attachment A. Details of the abandonment are presented below.

The well casings and protective covers were removed from the wells prior to abandonment. In addition, dedicated well tubing and the associated dedicated pump were removed from P101 prior to abandonment.

Each monitoring well was overdrilled utilizing a roto-sonic track rig equipped with a water rotary drill bit. The bit had a welded steel extension rod designed to keep the drill bit centered within the 2-inch PVC riser pipe and screen, preventing deviation from the original borehole. PVC fragments were observed in the drill cuttings for each well overdrill, indicating that the wells were properly overdrilled according to plan. For all wells, the total well depth was reached or exceeded during overdrilling.

Once the final depth of each overdrill was reached, the drill crew pumped bentonite-cement grout to the bottom of the hole using the water rotary drill stem. The drill stem was then retracted in sections, with grout pumped as each section was withdrawn to displace the groundwater and seal the well

bore from the bottom up. Grout reached the surface and was circulated within the borehole at each former well location.

If you have any questions about the enclosed documentation, please contact Eric Oelkers at 608-444-3934 or eoelkers@scsengineers.com.

Sincerely,

Aaron C. Lofberg
Staff Professional
SCS Engineers

Eric Oelkers, PG
Senior Project Manager / Hydrogeologist
SCS Engineers

ACL/jsn/EO/SCC

cc: David Buser, WDNR
Alicia Zewicki, WDNR
Ann Bekta, WDNR
Larry Buechel, WMWI
Dan Roche, WMWI
Brett Coogan, WMWI
Greg Konsionowski, WMWI

Encl. Attachment A – Boundary Road Landfill Monitoring Well Abandonment Forms

I:\25222265.00\Deliverables\221128 BRL November 2022 Well Abandonment Documentation\230323_BRL Well Abandonment Letter.docx

Attachment A

Boundary Road Landfill
Monitoring Well Abandonment Forms

State of Wis., Dept. of Natural Resources SCS No. 25222265
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☒ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Waukesha		

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼ SE	Section	Township	Range
or Gov't Lot #		1	8 N	21 ☒ E ☐ W

Well Street Address: W124 N8925, Boundary Rd

Well City, Village or Town	Well ZIP Code
Menomonee Falls	53051

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Landfill Expansion	

2. Facility / Owner Information

Facility Name: Boundary Road Landfill
Facility ID (FID or PWS): 268152390
License/Permit/Monitoring #: License #0011
Original Well Owner: Waste Management of Wisconsin, Inc.
Present Well Owner: Waste Management of Wisconsin, Inc.
Mailing Address of Present Owner: W124 N8925 Boundary Road

City of Present Owner	State	ZIP Code
Menomonee Falls	WI	53051

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/02/1991

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
82	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.5	72

Was well annular space grouted? ☒ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
68	17.25

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

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

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

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite-Cement Grout	Surface	90	80 gallons	

6. Comments

P101, overdrilled and grouted well, DNR Well ID Number: 069

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Horizon Construction & Exploration		11/16/2022

Street or Route	Telephone Number
764 Tower Drive	(262) 692-3348

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Fredonia	WI	53021	Aaron Tolley	11/22/2022

DNR Use Only

Date Received	Noted By

Comments:

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☒ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Boundary Road Landfill 1537101		P101

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Exploration Technology, Inc. - Ken Tainter	9/30/91	10/2/91	4 1/4" I.D. HSA 0-100'

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		P101	744.9 Feet MSL	758.0 Feet MSL	8.5 inches

Boring Location
State Plane 437664.0 N, 2515526.0 E (S)/C/N Lat ___ ___ ___
-- 1/4 of SE 1/4 of Section 1, T 8 N, R 21 (E)/W Long ___ ___ ___

Local Grid Location (if applicable)
☐ N ☐ E
___ Feet ☐ S ___ Feet ☐ W

County	DNR County Code	Civil Town/City/or Village
Waukesha	68	Menomonee Falls

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth In Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	ROD/ Comments
1	24	16		Stiff, Light Brown Lean CLAY, Trace Gravel, Moist (CL)	CL									SS
2	24	7												SS
				Loose, Light Brown Clayey SAND, Moist (SC)	SC									
3	24	4	5	Soft, Black Organic CLAY, Trace Plastic, Moist (OL)	OL			0.0	1.0 TSF					SS
				Loose, Light Brown Gravelly SAND, Moist (SP)	SP									
4	20	6		Stiff to Very Stiff, Light Brown Lean CLAY, Trace Gravel, Moist (CL)	CL				2.5 TSF					SS
5	24	15		Change to Light Gray at 8.0 ft					2.0 TSF					SS
6	24	13	10					0.0	3.0 TSF					SS
7	24	27							4.0 TSF					SS
8	24	17	15						4.0 TSF					SS
9	24	28							2.5 TSF					SS
10	24	22							4.0 TSF					SS
11	24	28	20											SS
12	24	38		Very Stiff, Light Gray Silty CLAY, Little to Some Fine Sand, Trace Gravel, Moist (CL-ML)	CL-ML									SS
13	24	62	25											SS
				Medium Dense, Light Gray Silty SAND, Wet (SM) No Sample 26-28 ft	SM									
14	24	27		Hydro Punch 28-29 ft, Hammered 26-29 ft, Hydro Punch Duplicate Attempted (No Water)					3.5 TSF					SS

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

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

Signature Thomas J. Karwoski M. Osten / RJR/JEM Firm WARZYN INC.

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.

WDNR 8/91

Sample Number	Length Recovered (in.)	Blow Counts	Depth In Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
15	24	21		Very Stiff, Brown to Gray Lean CLAY, Little to Some Gravel, Moist (CL)	CL				3.3 TSF					SS
16	24	24							3.0 TSF					SS
17	24	13	35						2.8 TSF					SS
18	24	26							3.4 TSF					SS
19	24	25		Brown					3.8 TSF					SS
20	24	27	40						3.0 TSF					SS
21	24	13							1.8 TSF					SS
22	24	28	45						2.5 TSF					SS
23	24	12		Medium Dense, Gray to Brown Silty SAND, Wet (SM)	SM									SS
24	24	11		Stiff to Very Stiff, Gray to Brown Lean CLAY, Trace to Little Gravel, Moist (CL)	CL				1.0 TSF					SS
25	24	23	50						0.5 TSF					SS
26	24	15							2.5 TSF					SS
27	24	47	55						3.5 TSF					SS
28	24	22		Soft					0.5 TSF					SS
29	24	37		Hard					4.5 TSF					SS
30	24	64	60						3.5 TSF					SS
31	24	24							1.5 TSF					SS
32	24	36	65						2.5 TSF					SS
33	24	16		1/2" Sand Seam at 68 ft					2.5 TSF					SS
34	12	9		Dense to Very Dense, Light Brown to Gray Fine SAND, Little Silt and Clay, Wet (SP-SM)	SP-SM									SS
			70	No Sample Taken 69-72 ft Hydro Punch 71-72 ft										
35	24	39											11.0	SS
36	24	67	75											SS
37	24	141												SS
38	24	52		More Silt with Depth										SS

Sample Number	Sample Length Recovered (in.)	Blow Counts	Depth In Ft	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plastic Limit	Soil Properties: P 200	RQD/ Comments
39	24	48	80						2.5 TSF					SS
40	24	28		Stiff to Very Stiff, Gray Lean CLAY, Trace Gravel, Moist (CL)	CL				1.5 TSF		37	17	99.5	SS
41	24	34	85						1.7 TSF					SS
42	24	20							1.5 TSF					SS
43	24	24							1.7 TSF					SS
44	24	17	90						1.0 TSF					SS
45	24	36							2.5 TSF					SS
46	24	24	95						1.7 TSF					SS
47	24	34							1.5 TSF					SS
48	24	25							1.0 TSF					SS
			100	End of Boring at 100.0 ft										
			105											
			110											
			115											
			120											
			125											

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☒ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: Boundary Road Landfill

Facility License, Permit or Monitoring Number: _____

Type of Well: Water Table Observation Well ☒ 11 / Piezometer ☐ 12

Distance Well Is From Waste/Source Boundary: 25 ft.

Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No

Local Grid Location of Well: _____ ft. ☒ N. ☐ S. _____ ft. ☒ E. ☐ W.

Grid Origin Location: Lat. _____ Long. _____ or

St. Plane 437568 ft. N. 2515857 ft. E.

Section Location of Waste/Source: 1/4 of SE 1/4 of Sec. 1, T. 8 N. R. 21 ☒ E. ☐ W.

Location of Well Relative to Waste/Source: u ☒ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known

Well Name: TW2R

Wis. Unique Well Number: _____ DNR Well Number: _____

Date Well Installed: 10/31/91 (mm/dd/yy)

Well Installed By: (Person's Name and Firm)
Terry March
Warzyn Inc.

A. Protective pipe, top elevation 766.48 ft. MSL

B. Well casing, top elevation 766.39 ft. MSL

C. Land surface elevation 763.8 ft. MSL

D. Surface seal, bottom 758.3 ft. MSL or 5.5 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 ☐ 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):

E. Bentonite seal, top 763.5 ft. MSL or 0.3 ft.

F. Fine sand, top 758.3 ft. MSL or 5.5 ft.

G. Filter pack, top 757.4 ft. MSL or 6.4 ft.

H. Screen joint, top 756.8 ft. MSL or 7.0 ft.

I. Well bottom 746.7 ft. MSL or 17.1 ft.

J. Filter pack, bottom 746.3 ft. MSL or 17.5 ft.

K. Borehole, bottom 745.8 ft. MSL or 18.0 ft.

L. Borehole, diameter 8.5 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 1.97 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 3.8 in.
b. Length: 8.0 ft.
c. Material: Anodized Aluminum — 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 / Annular space seal ☐ __ / Other ☒ __
#30 filter sand above ground surf

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. 2.1 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 & mesh size
a. Badger Mining Corp.-fine mesh silica
b. Volume added 0.5 ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. Red flint sand #30
b. Volume added 2.0 ft³

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ __

10. Screen material: Schedule 40 PVC
a. Screen type: Factory cut ☒ 1 / Continuous slot ☐ 01 / Other ☐ __
b. Manufacturer Diedrich
c. Slot size: 0.010 in.
d. Slotted length: 9.7 ft.

11. Backfill material (below filter pack): None ☐ / Other ☒ __
Collapsed natural sand

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

Signature: Terry J. March /RJR | Firm: Warzyn Inc.

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 th... In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for ea... $5000 for each day of violation. See instructions for more information including where the completed form should be sent.

State of Wis., Dept. of Natural Resources SCS No. 25222265
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☒ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Waukesha		

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	SE	1	8 N	21 ☒ E ☐ W

Well Street Address: W124 N8925, Boundary Rd

Well City, Village or Town	Well ZIP Code
Menomonee Falls	53051

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Landfill Expansion	

2. Facility / Owner Information

Facility Name: Boundary Road Landfill
Facility ID (FID or PWS): 268152390
License/Permit/Monitoring #: License #0011
Original Well Owner: Waste Management of Wisconsin, Inc.
Present Well Owner: Waste Management of Wisconsin, Inc.
Mailing Address of Present Owner: W124 N8925 Boundary Road

City of Present Owner	State	ZIP Code
Menomonee Falls	WI	53051

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/31/1991

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
18	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8.5	7

Was well annular space grouted? ☒ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
5.5	13.6

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

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

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-Cement Grout	Surface	22	25 gallons	

6. Comments

TW2R, overdrilled and grouted well, DNR Well ID Number: 059

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Horizon Construction & Exploration		11/14/2022

Street or Route	Telephone Number
764 Tower Drive	(262) 692-3348

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Fredonia	WI	53021	Aaron Tolley	11/22/2022

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources SCS No. 25222265
dnr.wi.gov

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☐ **Verification Only of Fill and Seal**

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☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☒ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Waukesha		

Latitude / Longitude (see instructions) ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼ SE	Section	Township	Range
or Gov't Lot #		1	8 N	21 ☒ E ☐ W

Well Street Address: W124 N8925, Boundary Rd

Well City, Village or Town	Well ZIP Code
Menomonee Falls	53051

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Landfill Expansion	

2. Facility / Owner Information

Facility Name: Boundary Road Landfill
Facility ID (FID or PWS): 268152390
License/Permit/Monitoring #: License #0011
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Present Well Owner: Waste Management of Wisconsin, Inc.
Mailing Address of Present Owner: W124 N8925 Boundary Road

City of Present Owner	State	ZIP Code
Menomonee Falls	WI	53051

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/24/1991

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
31.5	2

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
unconfirmed- 8.5 assumed	20

Was well annular space grouted? ☒ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
18	12.5

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

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

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

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite-Cement Grout	Surface	34	35 gallons	

6. Comments

TW3R, overdrilled and grouted well, DNR Well ID Number: 061

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Horizon Construction & Exploration		11/14/2022

Street or Route	Telephone Number
764 Tower Drive	(262) 692-3348

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Fredonia	WI	53021	Aaron Tolley	11/22/2022

DNR Use Only

Date Received	Noted By

Comments: