Appendix L
Boring and Monitoring Well Information

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Boring Logs for Newly Installed Soil Borings

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW301A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Luke Cravillion STS	2/7/2007	2/7/2007	Hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PI955	184	MW301A	Feet MSL	775.0 Feet MSL	8.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 315,872 N, 2,513,562 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drilled to 15.5 feet. See boring log MW301C for detailed soil descriptions.										
			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: Thomas E. Kiel
Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW301A Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
				End of boring at 15.5 feet.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW301B

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Luke Cravillion STS	2/7/2007	2/8/2007	Mud rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PI954	186	MW301B	Feet MSL	775.3 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 315,871 N, 2,513,556 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Blind drilled to 74.8 feet. See boring log MW301C for detailed soil descriptions.										
			1											
			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: Thomas E Koch
Firm: RMT, Inc.
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Fax: (608) 831-3334

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW301B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW301B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											
			37											
			38											
			39											
			40											
			41											
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50											
			51											
			52											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW301B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											
			66											
			67											
			68											
			69											
			70											
			71											
			72											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW301B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73											
			74											
				End of boring at 74.8 feet.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW301C

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Carlson STS	1/25/2007	1/31/2007	Mud rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PI953	188	MW301C	Feet MSL	775.1 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 315,872 N, 2,513,567 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 16.8	4 3 3 3	1	**TOPSOIL,** silty lean clay, trace sand, plastic, 10YR 2/2 very dark brown, moist, very stiff, roots.	CL									p.p. = 2.75 tsf
2 SS	24 19.2	2 2 3 4	2 3	**SILTY LEAN CLAY (CL),** with fine to medium sand seams, 10YR 5/4 yellowish brown, wet, stiff. (Till) **SILTY LEAN CLAY (CL),** trace to some fine to medium sand, 10YR 5/1 gray, wet, stiff. (Till)										p.p. = 1.75 tsf
3 SS	24 20.4	4 2 3 4	4 5	Same as above.										p.p. = 1.5 tsf
4 SS	24 12	2 2 4 5	6 7	Same as above.	CL									p.p. = 2.0 tsf
5 SS	24 15.6	3 3 7 8	8 9	Same as above, very stiff.										p.p. = 2.25 tsf
6 SS	24 16.8	3 3 5 7	10 11 12	**SILTY LEAN CLAY (CL),** with 1" to 2" silt seam, plastic, 10YR 5/1 gray, moist, very stiff.							27	12	87.4	p.p. = 3.25 tsf Lab Classification = Lean Clay (CL)

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

Signature: James E. Koch

Firm RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW301C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 SS	24 6	4 5 6 10	13	Same as above, trace fine gravel, no pocket pen, disturbed sample.										
8 SS	24 16.8	4 5 10 12	14 15	**SILTY LEAN CLAY (CL),** trace fine gravel, plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 2.5 tsf
9 SS	24 20.4	3 5 6 8	16 17	Same as above.										p.p. = 3.0 tsf
10 SS	24 24	2 3 5 6	18 19	Same as above.										p.p. = 2.0 tsf
11 SS	24 15.6	2 3 6 6	20 21	**SILTY LEAN CLAY (CL),** with fine sand seams and trace gravel, plastic, 10YR 5/1 gray, stiff.										p.p. = 1.75 tsf
12 SS	24 24	2 2 4 4	22 23	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff.	CL									p.p. = 1.5 tsf
13 SS	24 24	WOH 2 3 3	24 25	Same as above.										p.p. = 1.5 tsf
14 SS	24 24	WOH 2 2 3	26 27	Same as above.										p.p. = 1.75 tsf
15 SS	24 0	1 2 2 3	28 29	No recovery - possibly pushed gravel/rock.										
16 SS	24 8.4	2 2 3 4	30 31	Same as above.										p.p. = 1.0 tsf
			32											

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW301C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 SS	24 24	1 3 3 3	33	Same as above.										p.p. = 1.75 tsf
18 SS	24 24	2 4 5 6	34 35	Same as above.										p.p. = 1.5 tsf
19 SS	24 24	2 5 6 7	36 37	Same as above.										p.p. = 1.75 tsf
20 SS	24	2 3 3 5	38 39	Same as above.										
21 SS	24 24	1 3 4 5	40 41	Same as above.										p.p. = 1.75 tsf
22 SS	24 14.4	2 3 3 5	42 43	Same as above.	CL									p.p. = 1.0 tsf
23 SS	24 16.8	3 3 3 5	44 45	Same as above, trace coarse gravel.										p.p. = 1.75 tsf
24 SS	24 24	2 3 4 6	46 47	**SILTY LEAN CLAY (CL)**, plastic, 10YR 5/1 gray, moist, stiff.										p.p. = 2.0 tsf
25 SS	24 24	2 3 5 5	48 49	Same as above.										p.p. = 1.75 tsf
26 SS	24 21.6	3 4 5 6	50 51 52	Same as above, trace fine gravel, very stiff.										p.p. = 2.25 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW301C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
27 SS	24 24	2 3 5 8	53	Same as above.										p.p. = 2.25 tsf
28 SS	24 24	2 4 5 5	54 55	Same as above, stiff.										p.p. = 1.75 tsf
29 SS	24 24	1 3 3 4	56 57	Same as above.										p.p. = 1.25 tsf
30 SS	24 24	2 3 5 5	58 59	Same as above.										p.p. = 1.75 tsf
31 SS	24 21.6	3 5 7 11	60 61	**SILTY LEAN CLAY (CL),** trace to little fine to medium sand seams, plastic, 10YR 5/1 gray, moist.										p.p. = 3.5 tsf
32 SS	24 21.6	7 12 14 16	62 63	Same as above, no sand.	CL									p.p. = 3.5 tsf
33 SS	24 24	4 5 6 7	64 65	Same as above.										p.p. = 2.0 tsf
34 SS	24 24	3 4 6 6	66 67	Same as above.										p.p. = 2.0 tsf
35 SS	24 20.4	2 3 3 4	68 69	Same as above.										p.p. = 1.75 tsf
36 SS	24 24	2 3 4 6	70 71 72	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff.										p.p. = 2.0 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW301C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
37 SS	24 24	3 4 5 6	73	Same as above.							45	23	99.8	p.p. = 2.0 tsf Lab Classification = Lean Clay (CL)
38 SS	24 24	4 4 6 6	74 75	Same as above.										p.p. = 1.5 tsf
39 SS	24 24	4 5 6 7	76 77	Same as above, trace fine gravel.										p.p. = 2.0 tsf
40 SS	24 20.4	4 4 5 6	78 79	Same as above.										p.p. = 2.0 tsf
41 SS	24 24	2 3 4 6	80 81	Same as above.										p.p. = 1.25 tsf
42 SS	24 24	2 3 4 5	82 83	Same as above.	CL									
43 SS	24 24	2 3 3 5	84 85	Same as above.										p.p. = 1.5 tsf
44 SS	24 15.6	5 8 8 8	86 87	Same as above.										p.p. = 1.0 tsf
45 SS	24 12	2 4 9 9	88 89	**SILTY LEAN CLAY (CL),** trace to little medium to coarse sand, plastic, 10YR 5/1 gray, moist, very stiff, 0.25" fine to medium sand seams at 88.5 and 89.0 feet.										p.p. = 4.0 tsf
46 SS	24 19.2	8 14 17 19	90 91 92											

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW301C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
47 SS	24 21.6	10 15 19 24	93	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, plastic, 10YR 5/1 gray, hard.										p.p. > 4.5 tsf
48 SS	24 24	8 10 12 16	94 95	Same as above, very stiff.										p.p. = 3.75 tsf
49 SS	24 24	10 13 15 7	96 97	Same as above.										p.p. = 4.25 tsf
50 SS	24 20.4	8 10 11 15	98 99	Same as above.										p.p. = 4.25 tsf
51 SS	24 24	6 9 11 14	100 101	Same as above.										p.p. = 4.25 tsf
			102		CL									
			103											
			104											
52 SS	24 24	12 14 16 19	105 106	Same as above.										p.p. = 4.0 tsf
			107											
			108											
			109											
53 SS	24 24	7 10 13 17	110 111	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, very hard.										p.p. = 4.25 tsf
			112											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW301C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113											
			114											
54 SS	24 24	9 9 11 14	115–116	**SILTY LEAN CLAY (CL),** few very thin silt seams, plastic, 10YR 4/3 brown, moist, very stiff.										p.p. = 3.25 tsf
			117											
			118		CL									
			119											
55 SS	24 20.4	7 6 4 8	120–121	**SILTY LEAN CLAY (CL),** with silt seams, trace gravel, plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 3.25 tsf
			122											
			123								28	13	90.9	Lab Classificatic = Lean Clay (CL) Driller reports gravel at 12 feet.
			124		SM									
56 SS	24 20.4	17 6 10 12	125	**SILTY SAND WITH GRAVEL (SM),** coarse sand, gray.										p.p. = 4.0 ts
			126	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, plastic, 10YR 5/1 gray, moist, very stiff.	CL									
			127											
			128											
			129											
				End of boring at 129.5 feet.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW302A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Carlson STS	1/24/2007	1/24/2007	Hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PI951	190	MW302A	Feet MSL	777.3 Feet MSL	8.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 314,741 N, 2,513,585 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Blind drilled to 14.5 feet. See boring log MW302C for detailed soil descriptions.										
			1											
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											

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Signature	Firm	
James E Kiel	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-4444 Fax: (608) 831-3334

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW302A Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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			13											
			14											
				End of boring at 14.5 feet.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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Remediation/Redevelopment ☐ Other ☐

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PI952	192	MW302B	Feet MSL	777.3 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 314,739 N, 2,513,589 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drilled to 81.0 feet. See boring log MW302C for detailed soil descriptions.										
			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: James E. Kiel
Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW302B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW302B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											
			37											
			38											
			39											
			40											
			41											
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50											
			51											
			52											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW302B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											
			66											
			67											
			68											
			69											
			70											
			71											
			72											

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW302B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73											
			74											
			75											
			76											
			77											
			78											
			79											
			80											
			81	**End of boring at 81.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW302C

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Carlson STS	1/16/2007	1/20/2007	Mud rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PA420	194	MW302C	Feet MSL	777.3 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 314,742 N, 2,513,581 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 16.8	WOH 3 3 4	1	**TOPSOIL,** silty lean clay, 10YR 2/1 black to 10YR 6/4 light yellowish brown.	CL									p.p. = 1.5 tsf
				SILTY LEAN CLAY (CL), trace medium to coarse sand, with orange mottling. (Till)										Gradational contact.
2 SS	24 16.8	2 3 4 3	2 3	Same as above.										p.p. = 2.0 tsf
3 SS	24 20.4	4 5 7 8	4 5	Same as above, grading to 10YR 5/1 gray, plastic, very stiff.										p.p. = 2.75 tsf
4 SS	24 24	5 10 12 14	6 7	**SILTY LEAN CLAY (CL),** trace fine to medium sand, trace gravel, plastic, 10YR 4/1 dark gray, very stiff.	CL									p.p. = 4.5 tsf
5 SS	24 20.4	5 7 11 14	8 9	Same as above.										p.p. > 4.5 tsf
6 SS	24 21.6	5 7 13 15	10 11 12	**SILTY LEAN CLAY (CL),** no sand, plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 3.5 tsf

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

Signature: [signature] Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 Tel: (608) 831-4444 Fax: (608) 831-3334

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW302C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 SS	24 20.4	5 6 11 15	13	Same as above.							30	13	86.9	p.p. = 4.5 tsf Lab Classification = Lean Clay (CL)
8 SS	24 19.2	4 6 8 9	14 15	Same as above.										p.p. = 3.25 tsf
9 SS	24 15.6	4 5 8 9	16 17	Same as above.										p.p. = 3.0 tsf
10 SS	24 21.6	2 3 5 5	18 19	Same as above.										p.p. = 2.0 tsf
11 SS	24 24	3 3 3 5	20 21	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff.	CL									p.p. = 1.5 tsf
12 SS	24 24	2 5 4 5	22 23	Same as above.										p.p. = 1.5 tsf
13 SS	24 24	WOH 2 3 3	24 25	Same as above, medium stiff.										p.p. = 1.0 tsf
14 SS	24 21.6	2 2 3 2	26 27	Same as above, stiff.										p.p. = 1.25 tsf
15 SS	24 24	2 3 4 5	28 29	Same as above, stiff.										p.p. = 1.5 tsf
16 SS	24 24	2 3 2 3	30 31 32	Same as above.										p.p. = 1.25 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW302C Use only as an attachment to Form 4400-122.

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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 SS	24 24	2 3 4 4	33	Same as above.										p.p. = 1.0 tsf
18 SS	24 24	1 3 2 3	34 35	Same as above.										p.p. = 1.25 tsf
19 SS	24 24	3 3 5 6	36 37	Same as above.										p.p. = 1.5 tsf
20 SS	24 24	2 3 5 5	38 39	Same as above.										p.p. = 1.5 tsf
21 SS	24 24	3 4 6 7	40 41	Same as above.										p.p. = 2.0 tsf
22 SS	24 13.2	3 4 6 8	42 43	Same as above, with one piece of ~1.5" gravel.	CL									p.p. = 2.0 tsf
23 SS	24 24	3 5 7 9	44 45	Same as above, very stiff.										p.p. = 2.5 tsf
24 SS	24 24	3 3 6 7	46 47	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff.										p.p. = 2.0 tsf
25 SS	24 21.6	3 3 5 8	48 49	Same as above, stiff.										p.p. = 1.75 tsf
26 SS	24 19.2	7 9 13 15	50 51 52	Same as above, trace very fine gravel, very stiff.										p.p. = 3.5 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW302C Use only as an attachment to Form 4400-122.

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: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
27 SS	24 19.2	7 13 17 18	53	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, hard.										p.p. > 4.5 tsf
28 SS	24 21.6	3 4 5 7	54 55	Same as above, very stiff.										p.p. = 2.5 tsf
29 SS	24 24	3 4 7 8	56 57	Same as above.										p.p. = 2.25 tsf
30 SS	24 21.6	3 2 4 4	58 59	Same as above.										p.p. = 2.0 tsf
31 SS	24 24	4 5 7 9	60 61	Same as above.										p.p. = 1.75 tsf
32 SS	24 24	5 7 9 10	62 63	Same as above.	CL									p.p. = 2.0 tsf
33 SS	24 24	4 5 5 8	64 65	Same as above.										p.p. = 2.0 tsf
34 SS	24 24	7 10 14 6	66 67	Same as above, little silt (ML) in spoon tip.										p.p. = 2.75 tsf
35 SS	24 24	9 13 18 20	68 69	**SILTY LEAN CLAY (CL),** trace fine to medium sand, plastic, 10YR 5/1 gray, moist.										p.p. = 3.5 tsf
36 SS	24 15.6	11 14 23 28	70 71 72	**SILTY LEAN CLAY (CL),** trace fine to medium sand, plastic, 10YR 5/1 gray, moist.										p.p. = 4.0 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW302C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
37 SS	24 22.8	7 12 19 29	73	Same as above, hard.										p.p. = 2.75 tsf
38 SS	24 20.4	15 17 28 44	74 75	Silty sand, 30% to 40% fines from 73.5 to 73.7 feet. Same as above, hard. Silty fine sand from 74.8 to 75.1 feet.										p.p. > 4.5 tsf
39 SS	24 24	13 25 38 50	76 77	**SILTY LEAN CLAY (CL),** trace fine to medium sand, plastic, 10YR 5/1 gray, moist.							33	15	91.6	p.p. > 4.5 tsf Lab Classification = Lean Clay (CL)
40 SS	24 24	9 15 24 36	78 79	Same as above.										p.p. > 4.5 tsf
41 SS	24 21.6	8 12 18 28	80 81	Same as above, hard.										p.p. > 4.5 tsf
42 SS	24 24	7 11 19 20	82 83	Same as above, very stiff.	CL									p.p. = 2.75 tsf
43 SS	24 15.6	9 12 17 21	84 85	Same as above, very stiff. First run, no recovery, second run, pushed spoon.										p.p. = 2.75 tsf
44 SS	24 12	5 6 12 18	86 87	Same as above, very stiff.										p.p. = 2.25 tsf
45 SS	24 24	5 9 12 18	88 89	Same as above, two attempts to get recovery.										p.p. = 2.75 tsf
46 SS	24 20.4	8 10 13 21	90 91 92	Same as above, stiff.										p.p. = 1.75 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW302C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
47 SS	24 22.8	9 12 15 19	93	Same as above, very stiff.										p.p. = 2.25 tsf
48 SS	24 24	6 10 13 16	94 95	Same as above.										p.p. = 2.75 tsf
49 SS	24 24	7 9 12 18	96 97	**SILTY LEAN CLAY (CL)**, trace fine to medium sand, plastic, 10YR 5/1 gray, no odor, moist, very stiff.										p.p. = 3.0 tsf
50 SS	24 24	8 10 15 18	98 99	Same as above, no sand.										p.p. = 3.5 tsf
51 SS	24 24	6 9 13 18	100 101	Same as above.	CL									
52 SS	24 24	7 15 13 16	102 103 104 105	Same as above.										p.p. = 2.75 tsf
53 SS	24 24	8 11 13 14	106 107 108 109 110	Same as above.										p.p. = 3.25 tsf
			111 112											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW302C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113											
54 SS	24 24	7 12 16 18	114 115	Same as above.										p.p. = 2.75 tsf
			116											
			117											
			118											
55 SS	24 24	6 10 17 18	119 120	Same as above.										p.p. = 2.5 tsf
			121		CL									
			122											
			123											
56 SS	24 0	20 28 51	124	No recovery - pushed a rock.										
			125											
			126											
			127											
			128											
57 SS	24	18 30 55 68	129	Same as above.									21.9	Lab Classification = Silty Sand with Gravel (SM) LL = NV; PI = NP
			130	**SILTY SAND WITH GRAVEL (SM),** 20% to 30% fines, fine to coarse sand, fine to coarse gravel, 10YR 5/1 gray, no odor, wet. (Outwash)	SM									
			131											
			132											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW302C Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: 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	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			133		SM									
			134	**DOLOMITE,** weathered.										Driller notes weathered rock.
			135											
			136											
			137	**End of boring at 137.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW303A

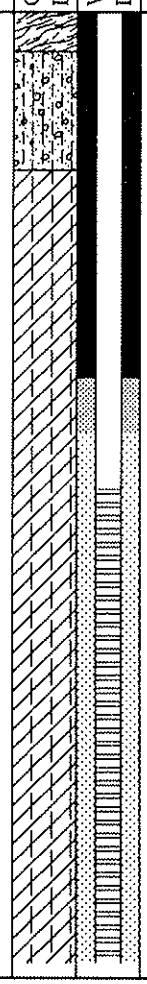
Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Carlson STS	1/19/2007	1/19/2007	Hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PA416	196	MW303A	Feet MSL	777.5 Feet MSL	8.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 313,334 N, 2,513,898 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ° ' "
Long ° ' "
Local Grid Location
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

Sample: Number and Type	Sample: 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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0–12	Blind drilled to 16.5 feet. See boring log MW303C for detailed soil descriptions.										



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

Signature: Thomas E. Kiel

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW303A Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
				End of boring at 16.5 feet.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

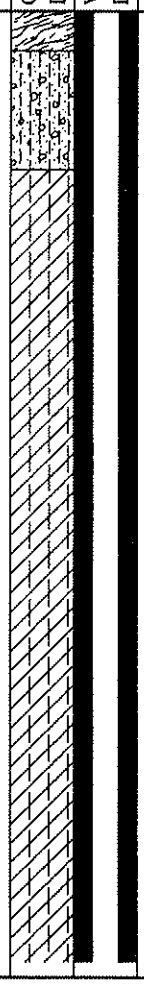
Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW303B

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Carlson STS	1/19/2007	1/22/2007	Mud Rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PA417	198	MW303B	Feet MSL	777.5 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 313,333 N, 2,513,903 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1 2 3 4 5 6 7 8 9 10 11 12	Blind drilled to 77 feet. See boring log MW303C for detailed soil descriptions.										

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

Signature: Thomas E Kiel
Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW303B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW303B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											
			37											
			38											
			39											
			40											
			41											
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50											
			51											
			52											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW303B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											
			66											
			67											
			68											
			69											
			70											
			71											
			72											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW303B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73											
			74											
			75											
			76											
			77	**End of boring at 77.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW303C

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Carlson STS	1/9/2007	1/17/2007	Mud Rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PA415	200	MW303C	Feet MSL	777.5 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 313,334 N, 2,513,894 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 10.8	1 3 5 4	1	**GRASS AND TOPSOIL** **SILTY SAND WITH GRAVEL (SM),** with clay, medium to coarse sand, 10YR 7/4 very pale brown, moist.	SM									p.p. = 1.75 tsf
2 SS	24 19.2	1 3 4 5	2 3	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, plastic, 10YR 5/4 yellowish brown, orange mottling, moist, stiff. (Till)										p.p. = 2.0 tsf
3 SS	24 21.6	2 4 6 9	4 5	Same as above, but no mottling.										p.p. = 3.5 tsf
4 SS	24 24	3 6 8 11	6 7	Same as above.	CL									p.p. = 4.5 tsf
5 SS	24 24	4 8 10 11	8 9	Same as above, but less sand.										p.p. = 3.5 tsf
6 SS	24 24	4 5 6 7	10 11	Same as above, to 11.5 feet.										p.p. = 2.5 tsf
			12	**SILTY LEAN CLAY (CL),** plastic, 10YR										

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

Signature: Thomas E. Kiel
Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW303C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 SS	24 24	2 4 6 6	13	5/1 gray, moist, soft. Same as above.										p.p. = 0.5 tsf
8 SS	24 24	4 4 5 6	14 15	Same as above.							50	25	99.9	p.p. = 2.0 tsf; Lab Classification = Fat Clay (CH)
9 SS	24 24	2 2 3 4	16 17	Same as above.										p.p. = 1.5 tsf
10 SS	24 24	2 2 3 4	18 19											p.p. = 1.25 tsf
11 SS	24 21.6	1 2 3 4	20 21	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, medium stiff.										p.p. = 1.0 tsf
12 SS	24 12	2 2 4 4	22 23	Same as above, soft.	CL									p.p. = 0.25 tsf
13 SS	24 24	1 2 3 3	24 25	Same as above, medium stiff.										p.p. = 1.0 tsf
14 SS	24 24	WOH 2 2 3	26 27	Same as above.										p.p. = 1.0 tsf
15 SS	24 24	2 2 3 4	28 29	Same as above.										
16 SS	24 12	2 3 4 4	30 31 32	Same as above.										

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW303C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 SS	24 24	2 2 4 4	33	Same as above.										p.p. = 1.5 tsf
18 SS	24 24	2 3 5 5	34 35	Same as above, sample disturbed.										p.p. = 1.0 tsf
19 SS	24 12	2 4 4 6	36 37	Same as above.										p.p. = 1.0 tsf
20 SS	24 24	2 3 5 5	38 39	Same as above.										p.p. = 1.75 tsf
21 SS	24 24	2 2 3 4	40 41	Same as above.										p.p. = 1.25 tsf
22 SS	24 24	2 3 4 5	42 43	Same as above.	CL									p.p. = 1.5 tsf
23 SS	24	WOH 4 10 14	44 45	Same as above.										
24 SS	24 24	7 9 10 13	46 47	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 2.5 tsf
25 SS	24 24	4 7 7 10	48 49	Same as above, hard.										p.p. = 4.5 tsf
26 SS	24 24	4 5 7 8	50 51 52	Same as above, very stiff.										p.p. = 3.0 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW303C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
27 SS	24 24	4 7 7 9	53	Same as above, stiff.										p.p. = 1.5 tsf
28 SS	24 24	2 4 6 8	54 55	Same as above, very stiff.										p.p. = 2.5 tsf
29 SS	24 24	3 5 7 12	56 57	Same as above, very stiff.										p.p. = 3.0 tsf
30 SS	24 24	6 13 20 24	58 59	Same as above, trace medium sand, hard.										p.p. > 4.5 tsf
31 SS	24 24	6 9 12 12	60 61	Same as above, no sand, very stiff.										p.p. = 3.0 tsf
32 SS	24 24	4 7 7 11	62 63	Same as above.	CL									p.p. = 3.0 tsf
33 SS	24 24	3 5 8 9	64 65	Same as above.										p.p. = 2.5 tsf
34 SS	24 24	6 9 8 8	66 67	Same as above.										p.p. = 3.0 tsf
35 SS	24 24	3 4 5 9	68 69	Same as above.										p.p. = 3.0 tsf
36 SS	24 24	3 6 8 11	70 71 72	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 2.75 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW303C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
37 SS	24 24	3 4 6 8	73	Same as above, trace gravel.							31	14	89.4	p.p. = 2.5 tsf Lab Classification = Lean Clay (CL)
38 SS	24 24	3 7 10 9	74 75	Same as above, no gravel.										p.p. = 4.0 tsf
39 SS	24 24	3 5 8 15	76 77	Same as above, with occasional silt seams.										p.p. = 3.0 tsf
40 SS	24 24	6 13 17 16	78 79	Same as above, no silt seams, hard.										p.p. > 4.5 tsf
41 SS	24 13.2	5 14 14 15	80 81	Same as above, hard.										p.p. > 4.5 tsf
42 SS	24 24	5 9 12 12	82 83	Same as above.	CL									p.p. = 4.25 tsf
43 SS	24 24	5 7 10 13	84 85	Same as above, trace gravel.										p.p. = 3.5 tsf
44 SS	24 24	8 9 11 12	86 87	Same as above, trace gravel.										p.p. = 3.5 tsf
45 SS	24 24	5 8 12 12	88 89	Same as above.										p.p. = 3.0 tsf
46 SS	24 24	4 11 16 24	90 91 92	Same as above.										p.p. = 4.5 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW303C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
47 SS	24 24	9 10 19 22	93	Same as above.										p.p. > 4.5 tsf
48 SS	24 24	8 14 25 28	94 95	Same as above.										p.p. > 4.5 tsf
49 SS	24 24	8 16 20 20	96 97	**SILTY LEAN CLAY (CL),** same as above, plastic, 10YR 5/1 gray, moist. (Till)										p.p. = 4.5 tsf
50 SS	24 24	5 11 17 18	98 99	Same as above, trace gravel.	CL									p.p. = 4.5 tsf
51 SS	24 24	6 11 15 20	100 101	Same as above, trace gravel										p.p. = 1.5 tsf
52 SS	24 24	7 7 16 29	102 103 104 105	Same as above, trace gravel, with small silt seam.										p.p. > 4.5 tsf
			106											
53 SS	24 24	13 19 22 30	107 108 109 110 111 112	**SILT (ML),** some lean clay, slightly plastic, 10YR 5/1 gray, moist. (Fluvial)	ML									

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW303C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113											
			114											
54 SS	24 24	15 18 20 20	115–116	**SILT (ML),** trace lean clay, non-plastic, 10YR 5/1 gray, moist. (Fluvial)	ML									
			117											
			118											
			119											
55 SS	24 24	5 9 10 11	120–121	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, very stiff. (Till)										p.p. = 4.0 tsf
			122											
			123		CL									
			124											
56 SS	24 24	23 29 30 24	125–126	Same as above, with trace gravel, silt seam.										p.p. = 4.0 tsf
			127											
			128											
			129											
57 SS	24 24	29 33 27 62	130–131	**SILTY SAND (SM),** very fine sand, with sandy silt layers, trace clay, 10YR 5/1 gray, moist to wet. (Outwash)	SM									
			132											

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW303C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133								15		78.7	PI = NP Lab Classification = Silt with Sand (ML)
			134											
58 SS	19.2 10.8	33 49 50/5"	135	**SILTY SAND (SM),** same as above.										
			136											
			137		SM									
			138											
			139											
59 SS	24 24	29 25 31 30	140	Same as above.										Drill to 140 feet and sample.
			141											
			142	**End of boring at 142.0 feet.**										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW304A

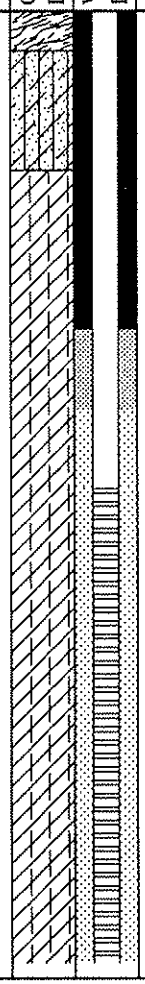
Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Carlson STS	1/11/2007	1/11/2007	Hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PA413	202	MW304A	Feet MSL	781.3 Feet MSL	8.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 313,336 N, 2,514,258 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ° ' "
Long ° ' "
Local Grid Location
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

Sample: Number and Type	Sample: 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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0–12	Blind drilled to 16.5 feet. See boring log MW304C for detailed soil descriptions.										



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

Signature: Thomas E. Kiel

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304A Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: 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	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			13											
			14											
			15											
			16											
				End of boring at 16.5 feet.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW304B

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Carlson STS	1/11/2007	1/15/2007	Mud Rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PA414	204	MW304B	Feet MSL	781.2 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 313,335 N, 2,514,252 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Blind drilled to 80 feet. See boring log MW304C for detailed soil descriptions.										
			1											
			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: Thomas E. Kiel
Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											
			37											
			38											
			39											
			40											
			41											
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50											
			51											
			52											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
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			65											
			66											
			67											
			68											
			69											
			70											
			71											
			72											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73											
			74											
			75											
			76											
			77											
			78											
			79											
			80	**End of boring at 80.0 feet.**										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW304C

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Carlson STS	1/4/2007	1/10/2007	Mud Rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PA412	206	MW304C	Feet MSL	781.3 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 313,335 N, 2,514,263 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___° ___' ___"
Long ___° ___' ___"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 14.4	2 3 3 4		**TOPSOIL,** 10YR 2/2 very dark brown, moist.										
			1	**SILTY CLAYEY SAND (SC),** fine to medium sand, little gravel, plastic, 10YR 3/1 very dark grayish brown, moist.	SC									
2 SS	24 21.6	5 7 9 12	2 3	**SILTY LEAN CLAY (CL),** trace to little gravel, 10YR 5/3 brown, moist, hard. (Till)										p.p. > 4.5 tsf
3 SS	24 24	4 8 9 12	4 5	Same as above.										p.p. > 4.5 tsf
4 SS	24 21.6	4 7 11 13	6 7	Same as above, with 0.5" sand seam at 6.5 feet.	CL									p.p. = 3.5 tsf
5 SS	24 24	4 7 12 14	8 9	Same as above, but 10YR 5/1 gray.										p.p. > 4.5 tsf
6 SS	24 24	4 6 10 14	10 11 12	Same as above, but 10YR 4/2 dark grayish brown.							29	14	84	p.p. = 4.5 tsf Lab Classification = Lean Clay with Sand (CL)

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

Signature	Firm	
Thomas E. Keel	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-4444 Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 SS	24 12	4 7 9 13	13	Sample disturbed, appears to be same as above.										
8 SS	24 22.8	WOH 3 4 5	14 15	**SILTY LEAN CLAY (CL),** trace coarse sand, 10YR 5/1 gray, moist, very stiff. (Till)										p.p. = 2.5 tsf
9 SS	24 21.6	1 4 7 7	16 17	Same as above, with occasional silt seams.										p.p. = 2.75 tsf
10 SS	24 24	1 1 2 3	18 19	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff.										p.p. = 2.0 tsf
11 SS	24 24	1 1 2 3	20 21	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff. (Till)										p.p. = 1.5 tsf
12 SS	24 24	1 1 2 3	22 23	Same as above.	CL									p.p. = 2.0 tsf
13 SS	24 24	1 2 3 3	24 25	Same as above.										p.p. = 2.0 tsf
14 SS	24 24	2 2 3 4	26 27	Same as above.										p.p. = 1.25 tsf
15 SS	24 24	WOH 2 3 3	28 29	Same as above.										p.p. = 1.75 tsf
16 SS	24 24	2 2 2 4	30 31 32	Same as above.										p.p. = 2.25 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 SS	24 24	1 3 3 5	33	Same as above.										p.p. = 2.75 tsf
18 SS	24 24	2 2 4 5	34 35	Same as above.										p.p. = 2.0 tsf
19 SS	24 24	2 3 3 5	36 37	Same as above.										p.p. = 2.0 tsf
20 SS	24 24	1 3 4 4	38 39	Same as above.										p.p. = 1.5 tsf
21 SS	24 24	1 3 5 6	40 41	Same as above.										p.p. = 2.75 tsf
22 SS	24 24	2 3 4 6	42 43	Same as above.	CL									p.p. = 2.5 tsf
23 SS	24 24	2 3 3 5	44 45											p.p. = 1.5 tsf
24 SS	24 24	2 3 5 5	46 47	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff.										p.p. = 1.75 tsf
25 SS	24 24	2 3 4 5	48 49	Same as above, very stiff.										p.p. = 2.25 tsf
26 SS	24 24	1 3 3 6	50 51 52	Same as above.										p.p. = 2.75 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
27 SS	24 24	2 4 10 12	53	**SILTY LEAN CLAY (CL),** trace coarse sand, plastic, 10YR 5/1 gray, moist, very stiff. (Till)										p.p. = 4.0 tsf
28 SS	24 19.2	5 9 13 18	54 55	**SILTY LEAN CLAY (CL),** 10YR 5/1 gray, hard. (Till)										p.p. > 4.5 tsf
29 SS	24 24	4 6 10 12	56 57	Same as above, very stiff.										p.p. = 3.5 tsf
30 SS	24 24	3 4 6 6	58 59	Same as above.										p.p. = 3.5 tsf
31 SS	24 24	1 4 5 6	60 61	Same as above.										
32 SS	24 24	2 3 4 6	62 63	Same as above.	CL									p.p. = 2.5 tsf
33 SS	24 24	3 4 5 7	64 65	Same as above.										p.p. = 2.25 tsf
34 SS	24 24	3 5 5 8	66 67	Same as above.										p.p. = 2.25 tsf
35 SS	24 24	WOH 3 5 6	68 69	Same as above.										p.p. = 2.25 tsf
36 SS	24 24	2 4 6 9	70 71 72	**SILTY LEAN CLAY (CL),** trace coarse sand and gravel, plastic, 10YR 5/1 gray, moist. (Till)										p.p. = 2.5 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
37 SS	24 24	4 17 14 21	73	**SILTY LEAN CLAY (CL),** trace fine sand, plastic, 10YR 5/1 gray, moist. (Till)	CL									p.p. = 4.5 tsf
38 SS	24 24	9 15 21 22	74 75	**SILTY SAND WITH GRAVEL (SM),** medium to coarse sand, little to some clay, moist. (Till)	SM						20	7	58.2	Lab Classification = Sandy Silty Clay (CL-ML)
39 SS	24 24	7 14 24 28	76 77	**CLAYEY SILT (ML),** trace medium to coarse sand, moist. (Till)	ML									
40 SS	24 21.6	13 14 17 21	78 79	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, plastic, moist. (Till)										
41 SS	24 22.8	5 8 12 3	80 81	Same as above, with 2" to 3" silt seam at 81.1 feet.										p.p. = 4.25 tsf
42 SS	24 24	6 12 7 13	82 83	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, grading to silt and clay (CL-ML) with trace medium to coarse sand, 10YR 5/1 gray, moist, very stiff. (Till)										p.p. = 3.0 tsf
43 SS	24 21.6	5 8 10 12	84 85	Same as above.	CL									p.p. = 3.0 tsf
44 SS	24 22.8	4 6 9 13	86 87	Same as above.										p.p. = 2.5 tsf
45 SS	24 19.2	3 5 9 9	88 89	**SILTY LEAN CLAY (CL),** occasional medium to coarse sand.										p.p. = 2.75 tsf
46 SS	24 22.8	4 7 11 23	90 91 92	Same as above, with possible silt layer from 91.1 to 91.6 feet.										p.p. = 3.75 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
47 SS	24 21.6	16 18 18 21	93	Same as above.										p.p. = 3.25 tsf
48 SS	24 22.8	10 16 26 28	94 95	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, trace gravel. (Till)										p.p. = 4.5 tsf
49 SS	24 24	12 20 29 32	96 97	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, plastic, 10YR 4/1 dark gray, moist. (Till)	CL									p.p. > 4.5 tsf
50 SS	24 19.2	8 19 16 20	98 99	Same as above.										p.p. = 4.25 tsf
51 SS	24 24	7 14 16 22	100 101 102 103	**SILT (ML),** trace clay, trace fine sand, with 2" silt/fine sand lenses at 100.8 and 101.5 feet. (Fluvial)	ML									p.p. = 3.5 to > 4.5 tsf
52 SS	24 22.8	13 20 29 36	104 105 106 107 108 109	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, 10YR 4/1 dark gray. (Till)	CL									p.p. = 3.5 to > 4.5 tsf
53 SS	24 21.6	10 39 40 50/4"	110 111 112	Same as above, silty sand layer from 110.6 to 111.0 feet.										p.p. = 4.5 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113		CL									
			114											
54 SS	24 24	33 45 47 53	115–116	**SILT WITH SAND (ML) TO SILTY SAND (SM),** very fine sand, non-plastic, 10YR 5/1 gray, moist to wet. (Fluvial)										
			117											
			118											
			119											
55 SS	24 20.4	24 27 30 31	120–121	**SILT WITH SAND (ML) TO SILTY SAND (SM),** very fine sand, non-plastic, 10YR 5/1 gray, moist to wet. (Fluvial)										
			122											
			123		ML						15		80	PI = NP Lab Classification = Silt with Sand (ML)
			124											
56 SS	24 24	15 28 38 45	125–126	Same as above, with trace clay.										
			127											
			128											
			129											
57 SS	24 21.6	16 26 40 44	130–131	Same as above, with silty lean clay layer from 130.2 to 130.5 feet.										p.p. > 4.5 tsf
			132											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133											
			134											
58 SS	24 19.2	14 33 37 45	135 136	Same as above, with clay layer from 135.0 to 135.3 feet.										
			137											
			138		ML									
			139											
59 SS	24 24	28 41 30 25	140 141	Same as above, with silty lean clay layers from 140.5 to 140.6 feet, and from 141.4 to 141.9 feet.										p.p. = 2.5 tsf
			142											
			143											
			144											
60 SS	24 24	6 8 11 11	145 146	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff. (Till)	CL									p.p. = 2.5 tsf
			147											
			148											
			149											
61 SS	24 21.6	23 23 24 31	150 151	**CLAYEY SILTY SAND (SM),** fine sand, to sandy clayey silt, non-plastic, 10YR 5/1 gray, moist. (Fluvial)	SM									
			152											

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW304C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			153		SM									
			154											
62 SS	24 24	11 10 15 14	155–156	**SANDY SILT WITH CLAY (ML),** 10YR 5/1 gray, silty lean clay layer from 155.2 to 155.5 feet, plastic. (Fluvial)	ML									p.p. = 2.75 tsf
			157											
			158											
			159											
63 SS	24 24	11 22 14 14	160–161	**SILTY LEAN CLAY (CL),** medium to coarse sand, trace gravel, 10YR 4/1 dark gray. (Till)										
			162											
			163											
			164		CL									
64 SS	24 19.2	44 25 39 50/3"	165–166	**SILTY LEAN CLAY (CL),** bedrock fragments, weathered bedrock.										
			167											
			168											
			169											
			170	**End of boring at 169.7 feet.** Refusal.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW305A

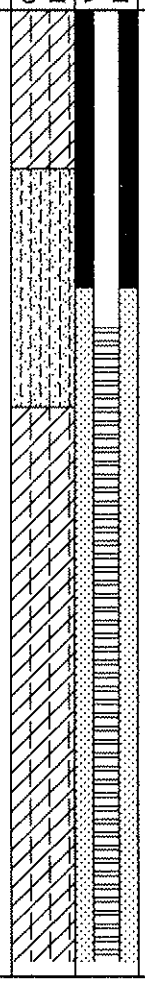
Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Denneau STS	1/12/2007	1/12/2007	Hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PA430	208	MW305A	Feet MSL	778.9 Feet MSL	8.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 313,357 N, 2,514,635 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Blind drilled to 14.5 feet. See boring log for MW305C for detailed soil descriptions.										



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

Signature: Thomas E. Kiel

Firm RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW305A Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
				End of boring at 14.5 feet.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW305B

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Denneau STS	1/12/2007	1/15/2007	Mud Rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VT600	210	MW305B	Feet MSL	778.9 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 313,357 N, 2,514,646 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Blind drilled to 104 feet. See boring log for MW305C for detailed soil descriptions.										
			1											
			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 RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW305B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW305B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											
			37											
			38											
			39											
			40											
			41											
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50											
			51											
			52											

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW305B Use only as an attachment to Form 4400-122.

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	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	
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											
			66											
			67											
			68											
			69											
			70											
			71											
			72											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW305B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73											
			74											
			75											
			76											
			77											
			78											
			79											
			80											
			81											
			82											
			83											
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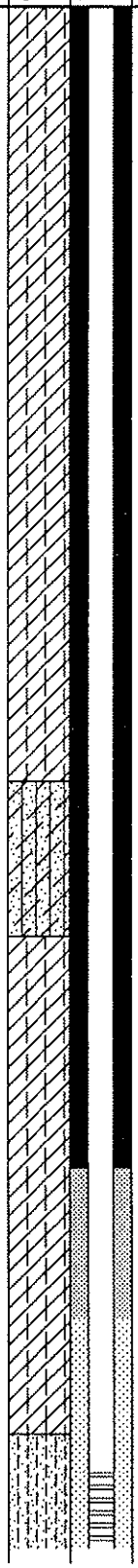
			87											
			88											
			89											
			90											
			91											
			92											



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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW305B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93											
			94											
			95											
			96											
			97											
			98											
			99											
			100											
			101											
			102											
			103											
			104	**End of boring at 104 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	MW305C

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Denneau STS	1/8/2007	1/10/2007	Mud Rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PA429	212	MW305C	Feet MSL	778.8 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 313,357 N, 2,514,640 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 12	WOH WOH 4 5	1	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, trace gravel, plastic, 10YR 2/1 black, moist.	CL									
2 SS	24 20.4	3 3 3 4	2 3	**SILTY SAND (SM),** fine to medium sand, trace gravel, plastic, 10YR 5/2 grayish brown, orange mottling, moist. (Till)	SM									
3 SS	24 24	4 5 6 6	4 5	Same as above.										p.p. = 3.25 tsf
4 SS	24 21.6	4 5 4 6	6 7	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, plastic, 10YR 5/1 gray, moist, very stiff. (Till) 1.1 foot layer of silt (ML) from 6.0 to 7.1 feet, then same as above.	CL									p.p. = 2.5 tsf
5 SS	24 21.6	4 6 5 12	8 9	Same as above.										p.p. = 3.0 tsf
6 SS	24 24	12 7 8 10	10 11 12	Same as above, with medium sand seam from 10.6 to 10.8 feet.							29	13	79.9	p.p. = 3.25 tsf Lab Classification = Lean Clay with Sand

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

Signature [signature] Firm RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW305C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 SS	24 20.4	4 8 12 11	13	Same as above.										(CL) p.p. = 3.0 tsf
8 SS	24 19.2	3 5 6 9	14 15	Same as above.										p.p. = 2.5 tsf
9 SS	24 20.4	4 4 7 11	16 17	Same as above, with silt seam.										p.p. = 2.75 tsf
10 SS	24 22.8	2 3 4 3	18 19	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff. (TIll)										p.p. = 1.75 tsf
11 SS	24 24	2 2 3 4	20 21	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff. (Till)										p.p. = 1.5 tsf
12 SS	24 24	2 3 4 4	22 23	Same as above.	CL									
13 SS	24 24	WOH 3 3 3	24 25	Same as above.										p.p. = 1.25 tsf
14 SS	24 20.4	3 3 3 5	26 27	Same as above.										p.p. = 1.25 tsf
15 SS	24 24	2 3 4 5	28 29	Same as above.										p.p. = 1.25 tsf
16 SS	24 24	2 2 4 5	30 31 32	Same as above, but medium stiff.										p.p. = 0.75 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW305C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 SS	24 24	2 3 5 5	33	Same as above, but stiff.										p.p. = 1.75 tsf
18 SS	24 24	2 2 4 5	34 35	Same as above.										p.p. = 1.5 tsf
19 SS	24 24	3 3 4 5	36 37	Same as above.										p.p. = 1.5 tsf
20 SS	24 21.6	1 2 4 5	38 39	Same as above.										p.p. = 1.0 tsf
21 SS	24 22.8	2 2 4 4	40 41	Same as above.										p.p. = 1.5 tsf
22 SS	24 20.4	2 3 4 4	42 43	Same as above.	CL									p.p. = 1.5 tsf
23 SS	24 24	2 4 5 6	44 45	Same as above.										p.p. = 1.5 tsf
24 SS	24 22.8	3 4 5 6	46 47	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff. (Till)										p.p. = 1.5 tsf
25 SS	24 18	3 4 6 6	48 49	Same as above.										p.p. = 1.5 tsf
26 SS	24 24	4 5 7 7	50 51 52	Same as above.										p.p. = 2.0 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW305C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
27 SS	24 24	4 6 6 6	53	Same as above.										p.p. = 2.0 tsf
28 SS	24 21.6	3 5 7 8	54 55	Same as above.										p.p. = 2.0 tsf
29 SS	24 21.6	7 11 20 21	56 57	**SILTY LEAN CLAY (CL),** trace medium coarse sand, plastic, 10YR 5/1 gray, moist, hard. (Till)										p.p. > 4.5 tsf
30 SS	24 24	33 45 47 53	58 59	Same as above.										p.p. = 2.5 tsf
31 SS	24 24	5 8 10 11	60 61	Same as above, less sand.										p.p. = 2.5 tsf
32 SS	24 21.6	5 6 11 10	62 63	Same as above.	CL									p.p. = 2.25 tsf
33 SS	24 21.6	4 4 8 8	64 65	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 2.5 tsf
34 SS	24 20.4	4 5 10 10	66 67	Same as above.										p.p. = 2.75 tsf
35 SS	24 24	3 4 9 8	68 69	Same as above.										p.p. = 2.0 tsf
36 SS	24 24	2 4 6 7	70 71 72	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 2.25 tsf

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Boring Number MW305C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
37 SS	24 18	7 7 12 11	73	Same as above, soft.										p.p. = 0.75 tsf
38 SS	24 24	4 5 7 8	74 75	Same as above.										p.p. = 1.75 tsf
39 SS	24 24	5 5 11 11	76 77	Same as above.	CL									p.p. = 2.0 tsf
40 SS	24 24	4 7 9 10	78 79	Same as above.										p.p. = 2.0 tsf
41 SS	24 24	5 6 12 11	80 81	Same as above.										p.p. = 2.25 tsf
42 SS	24 24	6 6 12 11	82 83	**SILTY CLAYEY SAND (SC-SM),** fine sand, with medium silty sand seam from 82.3 to 82.6 feet, non-plastic, 10YR 5/1 gray, moist to wet. (Outwash)	SC-SM									
43 SS	24 24	5 7 18 20	84 85	**SILTY LEAN CLAY (CL),** trace fine to medium sand, plastic, moist, very stiff. (Till)										p.p. = 4.5 tsf
44 SS	24 18	4 5 5 7	86 87	Same as above.	CL									p.p. = 2.0 tsf
45 SS	24 21.6	7 6 7 9	88 89	Same as above, with very fine sandy silt seams from 88.5 to 90 feet.										p.p. = 3.0 tsf
46 SS	24 24	8 35 30 34	90 91 92	**SILTY SAND (SM),** fine sand, trace gravel to 91.5 feet, then fine to medium sand and gravel, wet. (Outwash)	SM									

Boring Number MW305C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
47 SS	13.2 13.2	18 39 50/1"	93	**SILTY SAND (SM),** fine to coarse sand, trace gravel, 10YR 5/1 gray, moist to wet. (Outwash)										
48 SS	6 6	73/5"	94 95		SM								10.6	LL = NV; PI = NP Lab Classification = Well Graded Sand with Silt and Gravel (SW-SM)
49 SS	24 16.8	13 19 28 29	96 97	**SILTY LEAN CLAY (CL),** fine to coarse sand, trace gravel, non-plastic, moist to wet. (Till)										
50 SS	24 24	8 17 24 23	98 99	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, trace gravel, plastic, very stiff.										p.p. = 2.5 tsf
51 SS	24 14.4	19 23 31 40	100 101 102 103 104 105 106 107 108	Same as above, no pocket penetrometer because sample disturbed.	CL									
52 SS	24 20.4	7 11 20 15	109 110 111 112	Same as above, with no sand/gravel to 110.5 feet. **SILTY LEAN CLAY (CL),** little fine to coarse sand, trace gravel, 10YR 5/1 gray. (Till)										p.p. = 2.5 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW305C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
53 SS	24 21.6	6 8 12 18	113–117	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, very stiff. (Till)	CL									p.p. = 2.5 tsf
54 SS	12 12	26 60/6"	118–120	**SANDY SILT (ML),** very fine sand, non-plastic, 10YR 5/1 gray, moist. (Fluvial)										p.p. = 1.0 tsf
55 SS	4.8 4.8	50/4"	121–125	**SILTY SAND (SM) TO SANDY SILT (ML),** very fine sand, non-plastic, 10YR 5/1 gray, wet. (Fluvial)	ML									
			126–128								15	1	85.5	Lab Classification = Silt (ML)
56 SS	10.8 6	36 50/3"	129–132	Same as above.										

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW305C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133											
57 SS	9.6 0	49 50/3"	134	No recovery, two attempts.										
			135											
			136											
			137											
			138											
58 SS	9.6 9.6	38 50/3"	139	Same as above.										
			140											
			141											
			142		ML									
			143											
59 SS	24 21.6	35 47 38 35	144	**SILT (ML),** little to some very fine sand, non-plastic, 10YR 5/1 gray.										
			145											
			146											
			147											
			148											
60 SS	24 20.4	15 41 39 43	149	**SILT (ML),** and sand, as above.										
			150											
			151											
			152											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW305C Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			153		ML									
61 SS	24 10.8	15 21 26 36	154	Same as above.										p.p. = 2.5 tsf
			155	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, very stiff. (Till)	CL									
			156											
			157											
			158											
62 SS	24 24	5 7 42 48	159	Same as above.										
			160											
			161	**LIMESTONE,** weathered.										
			162											
				End of boring at 162.5 feet. Driller reports bedrock at 162.5 feet.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	B306

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Luke Cravillion STS	2/19/2007	2/20/2007	Mud rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	773.3 Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 315,513 N, 2,514,061 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ___° ___' ___"
Long ___° ___' ___"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 24	9 16 4	1	**SILT WITH CLAY (ML),** trace organics, slightly plastic, 10YR 2/1 black, no odor, moist, frozen to 2.0 feet, soft.	ML									p.p. = 2.0 tsf
2 SS	24 12	WOH WOH 1 1	2 3	Same as above, color change to 10YR 5/1 gray, soft.										p.p. = 1.0 tsf
3 SS	24 24	1 2 2 4	4 5	**SILTY LEAN CLAY (CL),** plastic, 10YR 4/1 dark gray, no odor, moist, water in split spoon, very stiff. (Till)	CL									p.p. = 2.75 tsf
4 SS	24 24	1 2 4 7	6 7	Same as above.										p.p. = 2.25 tsf
5 SS	24 18	1 4 8 10	8 9	Same as above, trace fine to coarse sand.										p.p. = 3.75 tsf
6 SS	24 16	1 4 5 6	10 11 12	Same as above, 2" silty sand seam at 11.5 feet, water at 2.5 feet bgs.										p.p. = 3.5 tsf

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

Signature [signature] Firm RMT, Inc. 744 Heartland Trail Madison, WI 53717 Tel: (608) 831-4444 Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B306 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 SS	24 22	4 6 9 15	13	Same as above, trace fine sand, hard.										p.p. > 4.5 tsf
8 SS	24 14	WOH 4 6 7	14 15	Same as above.										p.p. = 3.5 tsf
9 SS	24 20	2 3 6 8	16 17	Same as above.										p.p. = 2.25 tsf
10 SS	24 24	2 4 5 6	18 19	Same as above.										
11 SS	24 10	2 3 4 6	20 21	Same as above.										
12 SS	24 24	2 3 4 4	22 23	Same as above, very plastic, stiff.	CL									p.p. = 1.25 tsf
13 SS	24 24	WOH WOH 2 3	24 25	**SILTY LEAN CLAY (CL),** very plastic, 10YR 4/2 dark brownish gray, no odor, moist. (Till)										p.p. = 1.25 tsf
14 SS	24 24	1 2 3 4	26 27	Same as above.										p.p. = 1.75 tsf
15 SS	24 24	WOH 1 3 3	28 29	Same as above.										p.p. = 1.5 tsf
16 SS	24 24	WOH 1 2 3	30 31 32	Same as above.										p.p. = 1.0 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B306 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 SS	24 24	1 2 4 3	33	Same as above.										p.p. = 1.25 tsf
18 SS	24 24	1 2 2 3	34 35	Same as above, medium stiff.										p.p. = 2.75 tsf
19 SS	24 24	WOH 2 2 2	36 37	Same as above.										p.p. = 0.75 tsf
20 SS	24 24	1 2 3 4	38 39	Same as above.										p.p. = 1.0 tsf
21 SS	24 24	1 3 3 4	40 41	Same as above, stiff.										p.p. = 2.0 tsf
22 SS	24 24	1 2 3 3	42 43	Same as above.	CL									p.p. = 1.0 tsf
23 SS	24 24	1 4 4 4	44 45	Same as above.										p.p. = 1.75 tsf
24 SS	24 24	WOH 2 3 4	46 47	Same as above.										p.p. = 1.75 tsf
25 SS	24 24	2 3 4 5	48 49	Same as above.										p.p. = 1.25 tsf
26 SS	24 24	2 4 5 6	50 51 52	Same as above.										p.p. = 1.75 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B306 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
27 SS	24 24	2 4 5 7	53	Same as above.										p.p. = 1.5 tsf
28 SS	24 24	2 5 7 8	54 55	Same as above.										p.p. = 1.5 tsf
29 SS	24 24	1 2 2 4	56 57	Same as above, soft.										p.p. = 0.5 tsf
30 SS	24 24	1 2 4 5	58 59	Same as above, medium stiff.										p.p. = 1.0 tsf
31 SS	24 24	5 12 16 23	60 61	Same as above, hard.										p.p. > 4.5 tsf
32 SS	24 24	3 10 8 6	62 63	Same as above, trace fine to coarse sand, very stiff.	CL									p.p. = 3.75 tsf
33 SS	24 24	4 6 8 8	64 65	Same as above, no sand.										
34 SS	24 24	4 6 6 8	66 67	Same as above.										p.p. = 2.25 tsf
35 SS	24 24	2 2 4 5	68 69	Same as above.										p.p. = 2.0 tsf
36 SS	24 24	1 4 4 5	70 71	Same as above.										p.p. = 2.25 tsf
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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B306 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
37 SS	24 24	2 4 5 6	73	Same as above.										p.p. = 2.0 tsf
38 SS	24 24	2 4 6 7	74 75	Same as above.										p.p. = 4.0 tsf
39 SS	24 24	2 6 10 12	76 77	Same as above.										p.p. = 4.0 tsf
40 SS	24 24	4 7 7 9	78 79	Same as above.	CL									p.p. = 2.5 tsf
41 SS	24 24	3 5 6 9	80 81	Same as above, stiff.										p.p. = 1.5 tsf
42 SS	24 24	3 4 6 8	82 83	Same as above.										p.p. = 1.5 tsf
43 SS	24 24	6 8 13 24	84 85	Same as above, hard.										p.p. > 4.5 tsf
44 SS	24 24	9 16 23 27	86 87	Same as above, hard.										p.p. > 4.5 tsf
45 SS	24 10	6 12 50/4"	88 89	**SILTY SAND WITH GRAVEL (SM),** fine to coarse sand, 10YR 4/1 gray, no odor, hard. (Outwash) **SILTY SAND WITH GRAVEL (SM),** fine to coarse sand, 25% to 35% fines, fine to medium gravel, non-plastic, 10YR 4/1 dark gray, no odor, wet.	SM									
46 SS	24 14	16 22 20 19	90 91 92	Same as above.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B306 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
47 SS	24 14	18 34 30 22	93	Same as above.	SM									
48 SS	24 12	12 17 18 25	94 95	**SILTY LEAN CLAY (CL),** 10% to 20% fine to coarse sand and trace gravel, medium plasticity, 10YR 4/1 dark gray, no odor, very stiff. (Till)	CL									p.p. = 3.5 tsf
49 SS	24 1	19 22 22 24	96 97	Same as above, no significant recovery, gravel sluff, 1" silty clay with fine sand.										
			98	**End of boring at 98.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	B307

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Luke Cravillion STS	2/1/2007	2/14/2007	Mud rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	773.0 Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 315,120 N, 2,514,058 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 12	1 1 2 2	1	**TOPSOIL,** organic material.										
2 SS	24 18	1 3 3 1	2 3	**SILTY LEAN CLAY (CL),** 10YR 3/1 dark brown, trace roots, moist. **SILTY LEAN CLAY (CL),** trace fine to coarse sand, 10YR 3/1 dark brown.	CL									p.p. = 1.0 tsf
3 SS	24 18	1 2 2 1	4 5	**SILTY LEAN CLAY (CL),** gray, trace roots. **SILTY LEAN CLAY (CL),** some fine to medium sand, trace roots, 10YR 3/1 dark brown, sand seam at 5 feet. (Till)										p.p. = 1.0 tsf
4 SS	24 12	WOH 1 1 3	6 7	**SILTY LEAN CLAY (CL),** fine to medium sand, 10YR 5/1 gray. (Till)										p.p. = 1.0 tsf
5 SS	24 24	2 2 2 3	8 9	Same as above.	CL									p.p. = 0.75 tsf
6 SS	24 12	1 1 4 6	10 11 12	**SILTY LEAN CLAY (CL),** 1/8" to 1" fine to coarse sand seams, 10YR 5/1 gray. (Till)										p.p. = 1.5 tsf

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

Signature [signature] Firm RMT, Inc. 744 Heartland Trail Madison, WI 53717 Tel: (608) 831-4444 Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B307 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 SS	24 18	3 4 8 7	13	**SILTY LEAN CLAY (CL),** trace fine to coarse sand, trace fine gravel, 1" to 2" sand seams, 10YR 5/1 gray. (Till)										p.p. = 1.25 tsf Started second borehole due to lost casing.
8 SS	24 24	3 4 8 7	14 15	**SILTY LEAN CLAY (CL),** trace fine to coarse sand, 1/8" sand seams, 10YR 5/1 gray. (Till)										p.p. = 1.75 tsf
9 SS	24 3.6	1 3 4 5	16 17	**SILTY LEAN CLAY (CL),** trace fine to coarse sand, trace fine gravel, 10YR 5/1 gray, moist. (Till)										p.p. = 1.0 tsf
10 SS	24 7.2	2 6 6 8	18 19	**SILTY LEAN CLAY (CL),** trace fine to coarse sand, trace fine gravel, 10YR 5/1 gray. (Till)										p.p. = 2.0 tsf
11 SS	24 7.2	8 10 11 13	20 21	Same as above.										p.p. = 2.75 tsf
12 SS	24 24	3 6 10 12	22 23	**SILTY LEAN CLAY (CL),** very plastic, 10YR 5/1 gray, very stiff.	CL									p.p. = 4.0 tsf
13 SS	24 24	4 6 8 10	24 25	Same as above, moist, very stiff.										p.p. = 3.5 tsf
14 SS	24 24	2 3 4 5	26 27	Same as above.										p.p. = 2.25 tsf
15 SS	24 24	2 3 4 4	28 29	Same as above.										p.p. = 2.0 tsf
16 SS	24 24	1 2 3 3	30 31 32	Same as above.										p.p. = 1.5 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B307 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 SS	24 24	1 2 3 4	33	Same as above.										p.p. = 1.25 tsf
18 SS	24 24	WOH 2 4 4	34 35	Same as above.										p.p. = 2.0 tsf
19 SS	24 24	2 2 4 5	36 37	Same as above.										p.p. = 2.5 tsf
20 SS	24 24	1 2 4 4	38 39	Same as above.										p.p. = 2.0 tsf
21 SS	24 24	4 4 4 5	40 41	Same as above.										p.p. = 2.25 tsf
22 SS	24 24	2 4 5 6	42 43	Same as above.	CL									p.p. = 2.5 tsf
23 SS	24 24	3 3 4 4	44 45	Same as above.										p.p. = 1.0 tsf
24 SS	24 24	WOH 3 4 5	46 47	**SILTY LEAN CLAY (CL),** very plastic, 10YR 5/1 gray, moist, very stiff. (Till)										p.p. = 1.25 tsf
25 SS	24 24	2 4 5 6	48 49	Same as above.										p.p. = 2.25 tsf
26 SS	24 24	2 4 5 5	50 51 52	Same as above.										p.p. = 1.25 tsf

Boring Number B307 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
27 SS	24 24	4 4 5 7	53	Same as above.										p.p. = 2.0 tsf
28 SS	24 24	2 4 5 5	54 55	Same as above.										p.p. = 2.5 tsf
29 SS	24 24	2 3 5 6	56 57	**SILTY LEAN CLAY (CL),** very plastic, 10YR 5/1 gray, 1/8" sand seam at 57.7 feet, very stiff. (Till)										p.p. = 2.0 tsf
30 SS	24 0	2 7 9 12	58 59	No recovery, two attempts.										
31 SS	24 24	3 11 15 20	60 61	**SILTY LEAN CLAY (CL),** very plastic, 10YR 5/1 gray, very stiff.										p.p. = 4.25 tsf
32 SS	24 24	5 8 12 12	62 63	Same as above.	CL									p.p. = 3.0 to 4.0 tsf
33 SS	24 24	5 8 9 11	64 65	Same as above.										p.p. = 4.5 tsf
34 SS	24 24	4 5 7 9	66 67	Same as above.										p.p. = 3.5 tsf
35 SS	24 24	3 4 5 5	68 69	Same as above.										p.p. = 2.5 tsf
36 SS	24 24	2 4 6 7	70 71	Same as above.										p.p. = 2.5 tsf

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Boring Number B307 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
37 SS	24 12	5 8 9 10	73	**SILTY LEAN CLAY (CL),** trace coarse gravel, very plastic, 10YR 5/1 gray, very stiff. (Till)										p.p. = 1.5 tsf
38 SS	24 24	3 4 6 8	74 75	**SILTY LEAN CLAY (CL),** trace fine gravel, thin silt seams, very plastic, 10YR 5/1 gray, moist, very stiff. (Till)										p.p. = 2.0 tsf
39 SS	24 24	3 6 8 13	76 77	**SILTY LEAN CLAY (CL),** trace fine gravel, very plastic, 10YR 5/1 gray, moist, very stiff. (Till)										p.p. = 4.0 tsf
40 SS	24 24	6 13 17 20	78 79	Same as above.										p.p. = 4.5 tsf
41 SS	24 24	9 12 18 20	80 81	Same as above.										p.p. = 4.5 tsf
42 SS	24 12	8 12 13 14	82 83	Same as above.	CL									p.p. = 3.0 tsf
43 SS	24 24	9 14 12 14	84 85	Same as above.										p.p. = 3.5 tsf
44 SS	24 18	8 12 15 15	86 87	Same as above.										p.p. = 3.0 tsf
45 SS	24 24	9 12 12 15	88 89	Same as above.										p.p. = 3.0 to 4.0 tsf
46 SS	24 24	9 9 12 15	90 91	Same as above.										p.p. = 4.5 tsf
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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B307 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
47 SS	24 24	6 9 10 14	93	Same as above.										
48 SS	24 24	9 10 12 13	94 95	Same as above.	CL									
49 SS	24 24	10 11 14 15	96 97	**SILTY LEAN CLAY (CL),** trace fine gravel, plastic, 10YR 4/1 dark gray, very stiff. (Till)										
			98	**End of boring at 98.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	B308

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Wagner STS	1/25/2007	2/1/2007	Mud rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	779.7 Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 314,702 N, 2,514,058 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 / 10.8	4 4 3 4		**TOPSOIL,** silty lean clay with roots, 10YR 2/2 very dark brown, moist.	CL									
			1	**SILTY LEAN CLAY (CL),** some medium to coarse sand, trace gravel, 10YR 4/4 dark yellowish brown. (Till)										
2 SS	24 / 24	4 6 8 12	2 3	Same as above, little gravel, 10YR 4/5.										
3 SS	24 / 22.8	3 5 12 13	4 5	**SILTY LEAN CLAY (CL),** trace to little medium to coarse sand, trace gravel, 10YR 4/6 dark yellowish brown.										
4 SS	24 / 21.6	5 10 15 16	6 7	Same as above, with orange mottling.	CL									
5 SS	24 / 22.8	4 9 13 20	8 9	Same as above.										
6 SS	24 / 20.4	2 4 7 10	10 11 12	Same as above, no mottling, very stiff to hard.										p.p. = 3.0 to > 4.5 tsf

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

Signature [signature] Firm RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B308 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 SS	24 24	5 8 9 13	13	Same as above, hard.										p.p. = 4.5 tsf
8 SS	24 0	3 5 6 9	14 15	No recovery.										
9 SS	24 18	4 6 8 10	16 17	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, trace gravel, plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 3.0 tsf
10 SS	24 12	4 5 7 10	18 19	Same as above, stiff.	CL									p.p. = 1.5 tsf
11 SS	24 1.2	4 5 6 8	20 21	Pushed a rock, appears to be same as above.										
12 SS	24 2.4	3 10 8 10	22 23	Pushed a rock again, appears to be same as above.										
13 SS	24 24	1 2 5 8	24 25	**SILT (ML),** trace clay, 10YR 5/1 gray. (Fluvial)	ML									
14 SS	24 24	3 4 4 8	26 27	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, plastic, 10YR 5/1 gray, moist, very stiff. (Till) **SILTY LEAN CLAY (CL),** no sand, plastic, 10YR 5/1 gray, moist, stiff.										p.p. = 3.75 tsf p.p. = 1.5 tsf
15 SS	24 24	2 3 4 5	28 29	Same as above.	CL									p.p. = 1.75 tsf
16 SS	24 24	2 4 4 5	30 31 32	Same as above.										p.p. = 1.5 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B308 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 SS	24 24	2 3 3 5	33	Same as above.										p.p. = 1.25 tsf
18 SS	24 24	2 4 5 6	34 35	Same as above.										p.p. = 1.5 tsf
19 SS	24 24	2 5 6 7	36 37	Same as above.										p.p. = 1.25 tsf
20 SS	24 24	2 2 4 5	38 39	Same as above.										p.p. = 2.0 tsf
21 SS	24 24	3 3 6 6	40 41	Same as above.										p.p. = 2.5 tsf
22 SS	24 24	3 3 6 7	42 43	Same as above.	CL									p.p. = 2.5 tsf
23 SS	24 24	WOH 5 6 7	44 45	Same as above.										p.p. = 1.75 tsf
24 SS	24 24	2 6 8 8	46 47	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 2.5 tsf
25 SS	24 24	2 4 5 6	48 49	Same as above.										p.p. = 2.25 tsf
26 SS	24 24	3 5 7 9	50 51 52	Same as above.										p.p. = 2.5 tsf

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B308 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
27 SS	24 24	4 5 6 8	53	Same as above.										p.p. = 2.5 tsf
28 SS	24 24	2 4 8 10	54 55	Same as above, trace fine gravel, with silt seams (< 1/4").										p.p. = 2.75 tsf
29 SS	24 24	3 6 8 11	56 57	Same as above, trace fine gravel, with silt seams (< 1/4").										p.p. = 2.0 tsf
30 SS	24 24	3 5 7 9	58 59	Same as above, trace fine gravel, with 1/2" silt seams.										p.p. = 2.5 tsf
31 SS	24 24	4 6 6 8	60 61	Same as above.										p.p. = 2.5 tsf
32 SS	24 24	2 5 8 14	62 63	**SILTY LEAN CLAY (CL),** trace gravel, 10YR 5/1 gray, 1/4" to 1/2" silt and sand seams at 63.0 and 63.5 feet.	CL									p.p. = 2.0 to 4.5 tsf
33 SS	24 24	4 17 15 25	64 65	**SILTY LEAN CLAY (CL),** trace fine gravel, plastic, moist, hard.										p.p. > 4.5 tsf
34 SS	24 24	3 4 10 14	66 67	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff.										p.p. = 4.0 tsf
35 SS	24 24	3 4 6 8	68 69	Same as above.										p.p. = 2.75 tsf
36 SS	24 24	3 4 6 7	70 71 72	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff.										p.p. = 2.0 tsf

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Boring Number B308 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
37 SS	24 24	2 4 6 8	73	Same as above.										p.p. = 2.5 tsf
38 SS	24 24	3 8 9 9	74 75	Same as above.										p.p. = 2.25 tsf
39 SS	24 24	3 8 10 13	76 77	Same as above.										p.p. = 2.75 tsf
40 SS	24 24	7 7 10 11	78 79	**SILTY LEAN CLAY (CL),** trace gravel, plastic, 10YR 5/1 gray, moist, very stiff, 1" silty sand seam at 78.5 feet.										p.p. = 2.75 tsf
41 SS	24 24	7 11 18 50	80 81	Same as above, no sand seams.										p.p. = 2.5 tsf
42 SS	24 24	15 20 30 35	82 83	Same as above.	CL									p.p. > 4.5 tsf
43 SS	24 24	10 13 20 33	84 85	Same as above.										p.p. > 4.5 tsf
44 SS	24 24	10 18 22 23	86 87	**SILTY LEAN CLAY (CL),** trace gravel, plastic, 10YR 5/1 gray, moist, very stiff, 1.5" silty fine sand seam at 82.0 feet.										p.p. = 4.0 tsf
45 SS	24 24	8 18 16 23	88 89	Same as above.										p.p. = 4.5 tsf
46 SS	24 24	7 13 17 22	90 91 92	**SILTY LEAN CLAY (CL),** some sand, sand seam at 91.8 feet.										p.p. = 3.0 tsf

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B308 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
47 SS	24 24	7 12 13 17	93	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, plastic, moist, very stiff.										p.p. = 3.0 to 4.5 tsf
48 SS	24		94	**SILTY SANDY LEAN CLAY (CL),** medium to coarse sand, trace gravel.										
			95	**SILTY LEAN CLAY (CL),** trace gravel.										
49 SS	24 24	5 13 15 22	96 97	**SILTY LEAN CLAY (CL),** trace gravel, plastic, moist, very stiff.										p.p. = 3.25 tsf
50 SS	24 24	8 9 10 13	98 99	**SILTY SANDY LEAN CLAY (CL),** fine to medium sand, plastic, moist, very stiff.	CL									p.p. = 2.0 to 4.0 tsf
51 SS	24 24	5 9 13 14	100 101	**SILTY LEAN CLAY (CL),** trace gravel, plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 2.5 tsf
52 SS	24 24	6 8 10 13	102 103	Same as above.										p.p. = 3.0 tsf
53 SS	24 12	2 13 50/0"	104 105	Same as above, rock in spoon tip.										p.p. = 2.5 tsf
				End of boring at 105.0 feet.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	B309

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Wagner STS	1/22/2007	1/24/2007	Mud rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	779.9 Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 314,173 N, 2,514,090 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 13.2	2 3 4 6	1	**SILTY LEAN CLAY (CL),** with fine sand, plastic, 10YR 3/3 dark brown, moist. (Till)	CL									p.p. = 4.0 tsf Gradational contact.
				SILTY SAND (SM), fine to medium sand.	SM									
2 SS	24 24	4 7 11 13	2 3	**SILTY LEAN CLAY (CL),** trace medium sand, plastic, 10YR 4/6 dark yellowish brown, orange mottling, hard. (Till)										p.p. > 4.5 tsf
3 SS	24 21.6	5 11 16 21	4 5	Same as above.										p.p. > 4.5 tsf
4 SS	24 24	5 15 15 20	6 7	Same as above, trace gravel.	CL									p.p. > 4.5 tsf
5 SS	24 20.4	2 5 10 11	8 9	**SILTY LEAN CLAY (CL),** trace fine to medium sand, plastic, 10YR 5/3 brown, moist, hard.										p.p. > 4.5 tsf
6 SS	24 21.6	3 4 7 11	10 11 12	**SILTY LEAN CLAY (CL),** trace travel, plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 2.5 tsf

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

Signature: Thomas Kiel

Firm RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B309 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 SS	24 24	2 2 3 5	13	**SILTY SAND (SM),** very fine to fine sand, some clay, 10YR 5/1 gray.										
8 SS	24 21.6	WOH 3 4 6	14 15	Same as above, trace gravel.										
9 SS	24 24	2 3 5 7	16 17	Same as above, no gravel.	SM									
10 SS	24 22.8	4 3 5 8	18 19	Same as above.										
11 SS	24 18	4 6 6 7	20 21	**SILTY SAND (SM),** very fine to fine sand, some clay, 10YR 5/1 gray, moist.										
12 SS	24 20.4	3 3 6 7	22 23	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, very stiff. (Till)										p.p. = 2.5 tsf
13 SS	24 24	WOH 1 3 6	24 25	Same as above.										p.p. = 1.75 tsf
14 SS	24 24	2 3 5 7	26 27	Same as above.	CL									p.p. = 2.0 tsf
15 SS	24 24	2 2 3 4	28 29	Same as above, stiff.										p.p. = 1.5 tsf
16 SS	24 24	WOH 2 2 3	30 31 32	Same as above.										p.p. = 1.5 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B309 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 SS	24 24	2 3 5 5	33	Same as above.										p.p. = 1.5 tsf
18 SS	24 22.8	WOH 1 4 4	34 35	Same as above.										p.p. = 1.5 tsf
19 SS	24 24	1 3 3 4	36 37	Same as above.										p.p. = 1.5 tsf
20 SS	24 24	1 2 3 4	38 39	Same as above.										p.p. = 2.0 tsf
21 SS	24 24	2 2 3 5	40 41	Same as above.										p.p. = 1.5 tsf
22 SS	24 24	1 2 3 3	42 43	Same as above.	CL									p.p. = 1.75 tsf
23 SS	24 22.8	WOH 3 5 6	44 45	Same as above.										p.p. = 1.25 tsf
24 SS	24 21.6	2 4 5 7	46 47	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff. (Till)										p.p. = 1.75 tsf
25 SS	24 24	2 2 4 6	48 49	Same as above.										p.p. = 2.0 tsf
26 SS	24 21.6	1 3 3 7	50 51 52	Same as above.										p.p. = 2.0 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B309 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
27 SS	24 24	3 4 7 8	53	Same as above.										p.p. = 2.0 tsf
28 SS	24 16.8	WOH 4 4 5	54 55	Same as above.										p.p. = 1.75 tsf
29 SS	24 24	3 5 6 7	56 57	Same as above.										p.p. = 1.5 tsf
30 SS	24 24	1 3 5 7	58 59	Same as above.										p.p. = 1.75 tsf
31 SS	24 24	3 4 6 6	60 61	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 2.25 tsf
32 SS	24 24	5 8 10 12	62 63	**SILTY LEAN CLAY (CL),** plastic, 10YR 3/1 dark gray, moist, very stiff.	CL									p.p. = 3.0 tsf
33 SS	24 13.2	8 10 20 20	64 65	Same as above.										p.p. = 4.0 tsf
34 SS	24 20.4	4 6 10 12	66 67	Same as above.										p.p. = 2.5 tsf
35 SS	24 24	3 5 6 7	68 69	Same as above.										p.p. = 1.75 tsf
36 SS	24 24	4 4 7 9	70 71 72	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, stiff.										p.p. = 1.5 tsf

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Boring Number B309 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
37 SS	24 24	4 5 7 8	73	Same as above.										p.p. = 1.5 tsf
38 SS	24 24	2 6 8 9	74 75	Same as above, trace medium to coarse sand.										p.p. = 1.5 tsf
39 SS	24 24	2 6 8 10	76 77	Same as above, trace medium to coarse sand, very stiff.										p.p. = 2.25 tsf
40 SS	24 22.8	11 20 37 32	78 79	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 4.0 tsf
41 SS	24 24	10 14 18 20	80 81	Same as above.										p.p. = 3.5 tsf
42 SS	24 21.6	5 9 19 15	82 83	Same as above.	CL									p.p. = 3.0 tsf
43 SS	24 15.6	1 4 10 13	84 85	Same as above.										p.p. = 2.75 tsf
44 SS	24 6	7 10 13 15	86 87	Poor recovery due to a pushed rock, same as above.										
45 SS	24 24	7 9 13 14	88 89	Same as above.										p.p. = 3.0 tsf
46 SS	24 24	7 10 15 15	90 91 92	Same as above.										p.p. = 3.5 tsf

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B309 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
47 SS	24 0	7 10 13 15	93	No recovery, cuttings indicate same as above.										
48 SS	24 12	4 8 12 14	94 95	**SILTY LEAN CLAY (CL),** trace medium to coarse sand.										p.p. = 1.5 tsf
49 SS	24 24	6 11 14 17	96 97	**SILTY LEAN CLAY (CL),** trace medium to coarse sand, plastic, 10YR 5/1 gray, moist, very stiff.										p.p. = 3.5 tsf
50 SS	24 24	9 12 15 16	98 99	Same as above.	CL									p.p. = 3.0 tsf
51 SS	24 24	16 8 12 17	100 101	Same as above.										p.p. = 3.5 tsf
52 SS	24 19.2	8 13 15 16	102 103	Same as above.										p.p. = 3.75 tsf
53 SS	24 24	4 8 15 16	104 105	Same as above.										p.p. = 3.75 tsf
			106	**End of boring at 106.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	B310

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Wagner STS	1/17/2007	1/22/2007	Mud rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	780.8 Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 313,885 N, 2,514,840 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 14.4	1 3 4 4	1	**TOPSOIL,** organic silt, black.	OL									p.p. = 1.25 tsf
				SILTY LEAN CLAY (CL), yellow and gray, moist.										
2 SS	24 22.8	2 2 3 3	2 3	**SILTY LEAN CLAY (CL),** trace sand, yellow and gray.	CL									p.p. = 1.25 tsf
3 SS	24 24	1 2 3 4	4 5	**WELL GRADED SAND (SW),** fine to coarse sand, gray and yellow. (Outwash)	SW									Wet at 3.8 feet.
				SILTY LEAN CLAY (CL), trace sand, gray and yellow.	CL									p.p. = 1.5 tsf
4 SS	24 24	3 4 7 10	6 7	**WELL GRADED SAND (SW),** fine to coarse sand, wet at 8 feet. (Outwash)	SW									p.p. = 2.0 to 3.5 tsf
5 SS	24 19.2	5 12 12 16	8 9	**SILTY LEAN CLAY (CL),** trace fine to coarse sand, gray/black. (Till)										p.p. = 3.75 tsf
6 SS	24 12	7 10 7 7	10 11 12	Same as above, color change to 10YR 5/1 gray at 9.5 feet, wet. **SILTY LEAN CLAY (CL),** 1" fine to coarse sand, 10YR 5/1 at 11.0 feet. (Till)	CL									p.p. = 1.0 to 2.0 tsf

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

Signature [signature]

Firm RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B310 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 SS	24 18	5 7 12 17	13	**SILTY LEAN CLAY (CL),** trace fine to coarse sand, 10YR 5/1 gray. (Till)										p.p. = 3.0 to 4.5 tsf
8 SS	24 12	2 2 3 5	14 15	**SILTY LEAN CLAY (CL),** trace fine to coarse sand, 10YR 5/1 gray. (Till)										p.p. = 3.25 tsf
9 SS	24 24	5 13 13 20	16 17	Same as above.										p.p. = 4.0 tsf
10 SS	24 24	5 10 13 20	18 19	Same as above.										p.p. = 3.5 to 4.0 tsf
11 SS	24 24	4 7 10 12	20 21	**SILTY LEAN CLAY (CL),** trace fine to coarse sand, 10YR 5/1 gray.										p.p. = 3.0 tsf
12 SS	24 24	4 7 9 12	22 23	**SILTY LEAN CLAY (CL),** trace fine to coarse sand, 10YR 5/1 gray, 1/2" sand seam at 23.5 feet.	CL									p.p. = 2.5 tsf
13 SS	24 24	3 3 5 10	24 25	Same as above, trace fine to coarse sand, wet, sandy seams up to 2" thick.										p.p. = 1.0 to 4.0 tsf
14 SS	24 24	6 7 10 16	26 27	Same as above, moist.										p.p. = 2.75 tsf
15 SS	24 24	3 5 6 7	28 29	Same as above, moist.										p.p. = 2.5 tsf
16 SS	24 24	3 4 4 7	30 31 32	Same as above, moist.										p.p. = 2.0 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B310 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 SS	24 24	2 3 6 6	33	**SILTY LEAN CLAY (CL),** moist.										p.p. = 0.5 tsf
18 SS	24 24	2 3 4 5	34 35	**SILTY LEAN CLAY (CL),** 10YR 5/1 gray, moist.										p.p. = 1.5 tsf
19 SS	24 24	3 4 4 6	36 37	Same as above.										p.p. = 1.5 tsf
20 SS	24 24	3 3 5 5	38 39	Same as above.										p.p. = 2.0 tsf
21 SS	24 24	3 4 5 8	40 41	Same as above, trace fine to coarse sand.										p.p. = 1.5 tsf
22 SS	24 24	2 2 4 4	42 43	Same as above, no sand.	CL									p.p. = 1.5 tsf
23 SS	24 24	1 3 4 6	44 45	Same as above.										p.p. = 1.0 tsf
24 SS	24 24	4 4 6 7	46 47	**SILTY LEAN CLAY (CL),** 10YR 5/1 gray, moist.										p.p. = 2.5 tsf
25 SS	24 24	2 3 5 7	48 49	Same as above, moist.										p.p. = 1.75 tsf
26 SS	24 24	4 6 8 10	50 51	Same as above, moist.										p.p. = 2.0 tsf
			52											

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B310 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
27 SS	24 24	4 5 6 7	53	Same as above, stiffer, drier.										p.p. = 2.0 tsf
28 SS	24 24	3 5 7 10	54 55	Same as above, moist.										p.p. = 1.5 tsf
29 SS	24 24	3 7 9 11	56 57	Same as above, moist.										p.p. = 2.25 tsf
30 SS	24 24	5 7 7 11	58 59	Same as above, moist.										p.p. = 2.5 tsf
31 SS	24 24	4 7 7 9	60 61	Same as above, moist.										p.p. = 2.0 tsf
32 SS	24 24	4 7 7 9	62 63	Same as above, moist.	CL									p.p. = 2.0 tsf
33 SS	24 24	WOH 6 7 6	64 65	Same as above, moist from 65 to 66 feet; more silt than clay from 64 to 65 feet.										p.p. = 1.25 tsf
34 SS	24 24	4 6 7 7	66 67	Same as above to 67.5 feet, trace fine to coarse sand, dark black color.										p.p. = 2.25 tsf
35 SS	24 24	11 7 11 12	68 69	**SILTY LEAN CLAY (CL),** 10YR 5/1 gray, very stiff, 3" fine to coarse sand seam at 69 feet. Same as above, moist.										p.p. = 2.0 tsf p.p. = 4.0 tsf
36 SS	24 24	6 10 17 25	70 71 72	**SILTY LEAN CLAY (CL),** 10YR 5/1 gray. (Till)										p.p. = 4.25 tsf

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SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B310 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
37 SS	24 24	6 7 8 12	73	Same as above, with trace fine to coarse sand, moist.										p.p. = 2.25 tsf
38 SS	24 24	6 6 9 13	74 75	Same as above, no fine to coarse sand, moist.										p.p. = 2.75 tsf
39 SS	24 24	5 7 10 11	76 77	Same as above, moist.										p.p. = 2.5 tsf
40 SS	24 24	5 7 9 12	78 79	Same as above.										p.p. = 3.0 tsf
41 SS	24 24	4 6 8 11	80 81	Same as above.										p.p. = 2.25 tsf
42 SS	24 24	4 6 8 10	82 83	Same as above, 1/2" silt at 83.6 feet.	CL									p.p. = 2.0 tsf
43 SS	24 24	5 8 11 10	84 85	Same as above.										p.p. = 2.5 tsf
44 SS	24 18	4 6 10 16	86 87	Same as above, trace fine gravel.										p.p. = 2.25 tsf
45 SS	24 24	10 10 14 20	88 89	Same as above, hard.										p.p. > 4.5 tsf
46 SS	24 24	8 14 22 27	90 91 92	Same as above, no gravel.										p.p. = 4.5 tsf

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number B310 Use only as an attachment to Form 4400-122.

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
47 SS	24 24	8 12 16 20	93	Same as above.										p.p. = 4.0 tsf
48 SS	24 24	5 7 12 20	94 95	Same as above, trace fine gravel.										p.p. = 3.25 tsf
49 SS	24 24	7 14 19 23	96 97	Same as above.										p.p. = 4.25 tsf
50 SS	24 0	7 12 17 18	98 99	No recovery, two attempts.	CL									
51 SS	24 24	6 10 12 14	100 101	**SILTY LEAN CLAY (CL),** plastic, 10YR 5/1 gray, moist, very stiff. (Till)										p.p. = 2.5 tsf
52 SS	24 24	6 12 17 21	102 103	Same as above.										p.p. = 3.75 tsf
53 SS	24 24	3 5 12 14	104 105	Same as above.										p.p. = 3.5 tsf
			106	**End of boring at 106.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	P311

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Carlson STS	1/23/2007	1/23/2007	Hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PA419	214	P311	Feet MSL	775.7 Feet MSL	8.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 315,252 N, 2,513,733 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ° ' "
Long ° ' "
Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

Sample: Number and Type	Sample: 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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drilled for water levels only. Installed piezometer per approved Alternative Geotechnical Program.										
			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	Firm	
[signature]	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-4444 Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number P311 Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16	**End of boring at 16.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Veolia Emerald Park Landfill Expansion	3290	P312

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Carlson STS	1/23/2007	1/23/2007	Hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PA418	216	P312	Feet MSL	779.7 Feet MSL	8.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 314,022 N, 2,513,766 E S/C/N
1/4 of 1/4 of Section 36, T 5 N, R 20 E
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
268244130	Waukesha	68	Muskego

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	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drilled for water levels only. Installed piezometer per approved Alternative Geotechnical Program.										
			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	Firm	
Thomas Eric	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-4444 Fax: (608) 831-3334

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number P312 Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
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	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16	**End of boring at 16.0 feet.**										

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Historical Soil Boring Logs

RMT LOG OF TEST BORING

BORING NO.:	B-9
SHEET	1 of 1
PROJECT:	EMERALD PARK INC., LANDFILL
PROJECT NO.:	1397.03
LOCATION:	MUSKEGO, WI
SURFACE ELEVATION:	801.9
DRILLED BY:	MATECO
DATE STARTED:	4-5-88
DATE COMPLETED:	4-5-88
CREW CHIEF:	NED TAGGART
LOGGED BY:	JM
CHECKED BY:	AJM

SAMPLING NOTES NO.	TYPE	qu(T/ft²)	RECOVERY INCHES	DEPTH (ft.)	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
A1	CS	>4.5	10		Yellowish brown 10YR 5/4 SILTY CLAY, trace sand & gravel, hard, plastic, moist, some coated fractures (CL)
B1 B2 B3	CS	>4.5	52		
C1 C2 C3	CS	>4.5	58	10	dark grayish brown to dark gray 10YR 4/2-4/1, SILTY CLAY trace gravel, stiff to hard, plastic, moist. few coated fractures above 19' (CL) (CL/L)
D1 D2 D3	CS	3.0-4.5	54		
E1 E2 E3	CS	1.8-3.0	57	20	
F1 F2 F3	CS	1.0-1.3	56		
G1 G2 G3	CS	1.3-1.5	58	30	
H1 H2 H3	CS	1.3-1.5	58		
I1 I2 I3	CS	1.5-2.8	58	40	
J1 J2 J3	CS	1.8-2.5	58		
K1 K2 K3	CS	2.0-2.8	58	50	— Silt seam 0.2 FT
L1 L2 L3	CS	1.8-2.5	58		
M1	CS	2.3-2.5	24	60	
					End of boring @ 61'
				70	
				80	

NOTES	WATER LEVEL OBSERVATIONS			
DRILLING METHODS: HSA WITH 4 1/4" ID CONTINUOUS TUBE SAMPLE	FIRST OCCURENCE: Dry while drilling			
	DATE/TIME			
BOREHOLE DIAMETER: 7 INCHES	DEPTH TO WATER			
DRILL RIG: CME 850	DEPTH TO CAVE IN			

F-203A (R 09-87)

RMT

LOG OF TEST BORING

BORING NO.:	SB 10
SHEET	1 of 4
PROJECT NO.:	1397.13
SURFACE ELEVATION:	

PROJECT: EMERALD PARK INC.
LOCATION: MUSKEGO WI
DRILLED BY: WISCONSIN TEST DRILLING — DATE STARTED: 5/9/89 — DATE COMPLETED: 5/18/89
CREW CHIEF: J DELAFAVE — LOGGED BY: J HUNT — CHECKED BY:

SAMPLING NOTES NO.	TYPE	RECOVERY BLOWS	RECOVERY IN.	ELEV. (ft.)	DEPTH (ft.)	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
	SPLIT SPOON ↓					BLIND DRILL TO 64' (See LOG MW-10C)
10A		5-7-7	12		65	CLAY LITTLE SILT, TR. F. SAND GRAY 5YR5/1 MOIST (CL)
10B		9-8-13	16		70	AS ABOVE
10C		26-37-33	12		75	AS ABOVE
10D		13-23-21	18		80	AS ABOVE
10E		13-13-18	18		85	AS ABOVE
10F		9-14-17	12		90	AS ABOVE
10G		10-17-20	12		95	AS ABOVE PLUS TR. C. SAND, F. GRAVEL
10H		10-17-26	12		100	AS ABOVE

NOTES

DRILLING METHODS: ROTARY WASH
5 7/8" ROLLER BIT TO 65'
4" DRAG BIT 65' TO 208'
GROUT BACKFILL

BOREHOLE DIAMETER:
5 7/8" 4"

DRILL RIG:
MOBILE [illegible]

WATER LEVEL OBSERVATIONS

FIRST OCCURENCE:

DATE/TIME			
DEPTH TO WATER			
DEPTH TO CAVE IN			

125

RMT

LOG OF TEST BORING

BORING NO.: SB-10
SHEET 2 of 4
PROJECT NO.: 1397.13
SURFACE ELEVATION: - ?

PROJECT: EPI
LOCATION: MUSKEGO WI

SAMPLING NOTES NO.	TYPE	RECOVERY BLOWS	IN.	ELEV. (ft.)	DEPTH (ft.)	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
	SS ↓					
10 I		16-27-33	12		105	CLAY AND F-M SAND, TR. SILT AND F. GRAVEL 5YR 3/1 V. DARK GRAY DRY → MOIST (CL)
10 J		23-28-37	18		110	CLAY LITTLE SILT, F GRAVEL, TR SAND 5YR 3/1 V DARK GRAY, DRY → MOIST (CL)
10 K		19-25-34	12		115	AS ABOVE
10 L		100/6	5		120	F. SAND AND SILT 7.5 YR 5/2 BROWN V. DENSE MOIST (SM$^{D}_{U}$)
10 M		20-18-22	18		125	CLAY SOME SILT 7.5 YR 4/2 BROWN MOIST (CL)
10 N		17-34-36	12		130	6" SILT SEAM LITTLE F SAND F SAND AND SILT 5 YR 6/1 GRAY MOIST V. DENSE (SM$^{D}_{U}$)
10 O		21-20-26	18		135	1" CLAY SEAM CLAY AND SILT TR SAND & GRAVEL 5YR 5/1 GRAY, MOIST (CL)
10 P		16-20-26	12		140	AS ABOVE
10 Q		15-33-100/4	12		145	SILT AND F. SAND LITTLE CLAY 10 YR 4/1 DARK GRAY MOIST V DENSE (ML)
D R		45-100/2	5		150	F SAND LITTLE SILT 10 YR 6/2 light brownish gray MOIST → WET V. DENSE (SP)

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RMT

LOG OF TEST BORING

PROJECT: EPI

LOCATION: MUSKEGO WI

BORING NO.: SB 10

SHEET 3 of 4

PROJECT NO.: 1397.13

SURFACE ELEVATION: 282.1

SAMPLING NOTES NO.	TYPE	RECOVERY BLOWS	RECOVERY IN.	ELEV. (ft.)	DEPTH (ft.)	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
	SPLIT SPOON ↓					
10 S		48-100/11	NR		155	NO RECOVERY
10 T		46-100/11	6		160	F SAND LITTLE SILT 10 YR 6/2 LIGHT BROWNISH GRAY MOIST → WET V. DENSE (SP)
10 U		47-100/11	NR		165	NO RECOVERY (AS ABOVE)
10 V		15/28/68	4		170	AS ABOVE (DRILLER FELT POSSIBLE CLAY SEAM 167-169)
		100/10	NR		175	NO RECOVERY (AS ABOVE)
10 X		180/9	9		180	CLAY LITTLE SILT 10 YR 4/1 DARK GRAY MOIST SILT AND F SAND 10YR6/1 LIGHT GRAY MOIST → WET V DENSE (SM D U)
10 Y		196/12	12		185	AS ABOVE WITH TR. C SAND
10 Z		186/12	NR		190	NO RECOVERY (AS ABOVE)
AA		37-57-53	12		195	F & M SAND LITTLE SILT, TR. F. GRAVEL 10 YR6/1 LIGHT GRAY MOIST → WET V. DENSE
P		156/7	NR		200	NO RETURN (AS ABOVE)

3B (R 09-87)

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RMT

LOG OF TEST BORING

BORING NO.:	SB-10
SHEET	4 of 4
PROJECT NO.:	1397.13
SURFACE ELEVATION:	792.1

PROJECT: EPI

LOCATION: MUSKEGO WI

SAMPLING NOTES NO.	TYPE	RECOVERY BLOWS	RECOVERY IN.	ELEV. (ft.)	DEPTH (ft.)	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
	SS					
10CC		60/3	NR		205	NO RECOVERY GRAVEL IN SPOON POSSIBLE BEDROCK
					210	E O B 208'
						TREMIE GROUT (PUMPED)
						1300 LBS CEMENT
						150 LBS BENTONITE
						≈ 200 GALLONS WATER

F-203B (R 09-87)

LOG OF TEST BORING

RMT

BORING NO.:	B-11
SHEET	1 of 1
PROJECT:	EMERALD PARK INC., LANDFILL
PROJECT NO.:	1397.03
LOCATION:	MUSKEGO, WI
SURFACE ELEVATION:	788.8
DRILLED BY:	MATECO
DATE STARTED:	3-24-88
DATE COMPLETED:	3-24-88
CREW CHIEF:	NED TAGGART
LOGGED BY:	JM
CHECKED BY:	TPV

SAMPLING NOTES NO.	TYPE	qu(T/ft²)	RECOVERY INCHES	DEPTH (ft.)	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
A1 A2	CS	.5-2.0	36		yellowish brown to brown, 10YR 5/8-4/3, SILTY CLAY, some sand and gravel, stiff to hard, plastic, moist to wet, some coated & black stained fractures, mottled gray & orange (CL)
B1 B2 B3	CS	4.0->4.5	60		
C1 C2 C3	CS	3.0-3.3	60	10	
D1 D2 D3	CS	2.0-2.5	58		dark grayish brown to dark gray, 10YR 4/2-4/1, SILTY CLAY, trace sand & gravel, stiff to very stiff, plastic, moist, uniform (CL)
E1 E2 E3	CS	1.3	58	20	
F1 F2 F3	CS	1.3-1.5	59		
G1 G2 G3	CS	1.3-1.5	58	30	2 inch sand seams at 16 & 20'
H1 H2 H3	CS	.7-1.3	58		
I1 I2 I3	CS	.8-2.0	58	40	
J1 J2 J3	CS	1.5-1.8	60		
K1 K2 K3	CS	1.5-2.0	58	50	
L1 L2 L3	CS	1.5-2.0	59		
				60	End of Boring @ 60'
				70	
				80	

NOTES	WATER LEVEL OBSERVATIONS			
DRILLING METHODS: HSA WITH 4 1/4" ID CONTINUOUS TUBE SAMPLE	FIRST OCCURENCE:			
	DATE/TIME			
BOREHOLE DIAMETER: 7 INCHES	DEPTH TO WATER			
DRILL RIG: CME 850	DEPTH TO CAVE IN			

F-203A (R 09-87)

RMT — LOG OF TEST BORING

BORING NO.:	B-12
SHEET	1 of 1
PROJECT:	EMERALD PARK INC., LANDFILL
PROJECT NO.:	1397.03
LOCATION:	MUSKEGO, WI
SURFACE ELEVATION:	804.7
DRILLED BY:	MATECO
DATE STARTED:	3-15/6-30-88
DATE COMPLETED:	3-16/7-1-88
CREW CHIEF:	NED TAGGART
LOGGED BY:	AJM
CHECKED BY:	TPV

SAMPLING NOTES NO.	TYPE	qu(T/ft²)	RECOVERY INCHES	DEPTH (ft.)	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
A1 A2	CS	.7-4.0	41		Black, 10YR 2/1 SILTY CLAY, soft, plastic, moist, TOPSOIL (CL)
B1 B2 B3	CS	3.5-4.2	63		Brown to dark grayish brown, 10YR 5/3-4/3, SILTY CLAY, trace sand & gravel, hard, plastic, moist, some coated thin fractures, mottled yellowish brown (CL)
C1 C2 C3	CS	>4.5	60	10	
D1 D2 D3	CS	3.8-4.5	58		- small scattered pockets of sand
E1 E2 E3	CS	2.8->4.5	58	20	dark grayish brown to dark gray 10YR 4/2-4/1, SILTY CLAY, trace sand & gravel, very stiff, plastic, moist, few fractures upper 5 ft. (CL)
F1 F2 F3	CS	4.0->4.5	63		
G1 G2 G3	CS	1.8-3.0	60	30	- reddish brown pockets of silt
H1 H2 H3	CS	2.3-3.3	57		
I1 I2 I3	CS	2.0-2.8	62	40	
J1 J2 J3	CS	2.0-3.8	58		
K1 K2 K3	CS	2.0-4.5	57	50	
L1 L2 L3	CS	2.8-3.3	60		
A1 A2	CS	1.8-3.3	26	60	[Boring extended 6-30-88 (58.9-80')]
B1 B2 B3	CS	3.3-3.5	59		
C1 C2 C3	CS	3.4	59	70	
D1 D2 D3	CS	>4.5	59		
E1 E2	CS	>4.5	39		
				80	End of Boring @ 80'

NOTES	WATER LEVEL OBSERVATIONS			
DRILLING METHODS: HSA WITH 4 1/4" ID CONTINUOUS TUBE SAMPLE	FIRST OCCURENCE: dry while drilling			
	DATE/TIME			
BOREHOLE DIAMETER: 7 INCHES	DEPTH TO WATER			
DRILL RIG: CME 850	DEPTH TO CAVE IN			

F-203A (R 09-87)

LOG OF TEST BORING

RMT

BORING NO.:	B-16
SHEET	1 of 1
PROJECT: EMERALD PARK INC., LANDFILL	PROJECT NO.: 1397.03
LOCATION: MUSKEGO, WI	SURFACE ELEVATION: 787.9
DRILLED BY: MATECO	DATE STARTED: 4-12-88 / DATE COMPLETED: 4-12-88
CREW CHIEF: NED TAGGART	LOGGED BY: JM / CHECKED BY: AJM

SAMPLING NOTES NO.	TYPE	qu(T/ft²)	RECOVERY INCHES	DEPTH (ft.)	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
A1 A2	CS	>4.5	30		yellowish brown to brown, 10YR 5/4-4/3 SILTY CLAY, trace sand and fine to coarse gravel, hard, plastic, moist, mottled gray, some thin coated fractures (CL)
B1 B2 B3	CS	>4.5	48		
C1	CS	>4.5	18	10	
D1 D2 D3	CS	3.8-4.3	58		dark gray, 10YR 4/1, SILTY CLAY, trace sand and gravel, stiff to very stiff, plastic, moist, Fe stained fractures above 18.5'
E1 E2 E3	CS	2.8	60	20	
F1 F2 F3	CS	1.8-2.3	58		
G1 G2 G3	CS	2.0-2.3	58	30	
H1 H2 H3	CS	2.0-2.3	60		
I1 I2 I3	CS	2.0-3.3	58	40	
J1 J2 J3	CS	1.3-3.0	58		
K1 K2 K3	CS	2.0-2.5	58	50	
L1 L2 L3	CS	2.0-2.8	58		
M1	CS	2.8-3.0	24	60	
				70	End of boring @ 60.5'
				80	

NOTES	WATER LEVEL OBSERVATIONS			
DRILLING METHODS: HSA WITH 4 1/4" ID CONTINUOUS TUBE SAMPLE	FIRST OCCURENCE:			
	DATE/TIME			
BOREHOLE DIAMETER: 7 INCHES	DEPTH TO WATER			
DRILL RIG: CME 850	DEPTH TO CAVE IN			

F-203A (R 09-87)

LOG OF TEST BORING

RMT

BORING NO.:	B-17
SHEET	1 of 1
PROJECT:	EMERALD PARK INC., LANDFILL
PROJECT NO.:	1397.03
LOCATION:	MUSKEGO, WI
SURFACE ELEVATION:	796.1
DRILLED BY:	MATECO / SES
DATE STARTED:	4-14 / 7-5-88
DATE COMPLETED:	4-14 / 7-5-88
CREW CHIEF:	NED TAGGART
LOGGED BY:	JM
CHECKED BY:	AJM

SAMPLING NOTES NO.	TYPE	qu(T/ft²)	RECOVERY INCHES	DEPTH (ft.)	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
A1	CS	.8-2.5	29		dark yellowish brown 10YR 4/4, SILTY SANDY CLAY stiff, plastic, moist, (SC)
B1 B2 B3	CS	>4.5	60		dark yellowish brown, 7.5YR 4/4, SILTY CLAY, trace sand & gravel, hard, plastic, moist, some coated thin, stained fractures (CL)
C1 C2 C3	CS	>4.5	60	10	
D1 D2 D3	CS	3.5-4.5	57		dark gray 10YR 4/1, SILTY CLAY, trace sand & gravel, stiff to hard, plastic, moist, uniform, some coated-stained fractures above 18.5 FT. (CL)
E1 E2 E3	CS	2.8	58	20	
F1 F2 F3	CS	2.3-2.8	58		
G1 G2 G3	CS	2.3-2.5	60	30	
H1 H2 H3	CS	2.3-3.5	60		2-3 inch silty seam
I1 I2 I3	CS	2.0-2.5	58	40	
J1 J2 J3	CS	2.0-2.3	59		2 inch silty seam
K1 K2 K3	CS	2.5-3.0	58	50	
L1 L2 L3	CS	2.5-3.0	60		
M1	CS	2.8-3.3	21	60	Boring extended from 59' to 70.5' (7-5-88)
M2	CS	2.8	31		
B1 B2 B3	CS	2.5	59		
C1 C2	CS	2.0-2.5	45	70	
					End of boring @ 70.5 FT
				80	

NOTES	WATER LEVEL OBSERVATIONS			
DRILLING METHODS: HSA WITH 4 1/4" ID CONTINUOUS TUBE SAMPLE	FIRST OCCURENCE:			
	DATE/TIME			
BOREHOLE DIAMETER: 7 INCHES	DEPTH TO WATER			
DRILL RIG: CME 850	DEPTH TO CAVE IN			

F-203A (R 09-87)

RMT INC

LOG OF TEST BORING

BORING NO.:	B-18
SHEET	1 of 1
PROJECT:	EMERALD PARK INC., LANDFILL
PROJECT NO.:	1397.03
LOCATION:	MUSKEGO, WI
SURFACE ELEVATION:	800.9
DRILLED BY:	MATECO
DATE STARTED:	4-12/7-11-88
DATE COMPLETED:	4-12/7-11-88
CREW CHIEF:	NED TAGGART
LOGGED BY:	JM
CHECKED BY:	AJM

SAMPLING NOTES NO.	TYPE	qu(T/ft²)	RECOVERY INCHES	DEPTH (ft.)	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
A1	CS	2.5-3.3	31		yellowish brown to brown, 10YR5/4-4/3, SILTY CLAY, very stiff to hard, plastic, moist, some coated fractures, mottled gray (CL)
B1 B2 B3	CS	>4.5	60		
C1 C2 C3	CS	2.8-3.0	60	10	dark grayish brown to dark gray 10YR4/2-4/1, SILTY CLAY, trace fine gravel, stiff to very stiff, plastic, moist, few coated fractures above 13.5 FT (CL)
D1 D2 D3	CS	2.3-2.8	57		
E1 E2 E3	CS	1.5-2.5	58	20	
F1 F2 F3	CS	1.3-2.0	58		Thin silty seams at 11.5, 13, 19.5 and 20.8'
G1 G2 G3	CS	1.3-2.8	60	30	
H1 H2 H3	CS	1.5-2.3	60		
I1 I2 I3	CS	1.3-2.3	54	40	
J1 J2 J3	CS	2.5-3.3	60		
K1 K2 K3	CS	2.5-3.5	56	50	
L1 L2 L3	CS	1.8-4.0	60		- some silty seams
M1 M2 M3	CS	3.0-4.5	58	60	Boring extended from 69'-76 FT (7-11-88)
B1 B2 B3	CS	2.0	54		
C1 C2 C3	CS	2.3-2.8	60	70	dark gray, 10YR4/1, CLAYEY SILT, very stiff, plastic, moist (ML)
D1 D2	CS	1.8-2.3	36		dark gray SILTY CLAY
				80	End of boring @ 76 FT

NOTES

DRILLING METHODS: HSA WITH 4 1/4" ID CONTINUOUS TUBE SAMPLE

BOREHOLE DIAMETER: 7 INCHES

DRILL RIG: CME 850

WATER LEVEL OBSERVATIONS

FIRST OCCURENCE: dry while drilling

DATE/TIME			
DEPTH TO WATER			
DEPTH TO CAVE IN			

F-203A (R 09-87)

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		MW-18C

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Steve Rempulski	5/7/96	5/9/96	4 1/4 ID HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-18C	Feet MSL	800.7 Feet MSL	9.0 Inches

Boring Location
State Plane N, E
NW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "
Local Grid Location (If applicable)
5784.50 ☒ N 5897.20 ☒ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			1	Blind drilled to 75.0 feet. See log B-18 for description.										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
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			25											

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

Signature: Thomas E Kock

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

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Boring Number **MW-18C** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			26											
			27											
			28											
			29											
			30											
			31											
			32											
			33											
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Boring Number **MW-18C** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67–74											
1	60		75–77	**LEAN CLAY (CL)**, trace gravel, plastic, gray 10YR 5/1, very stiff, (Glacial Till).	CL				2.75	M				CS
2	60		78–81	As above.					2.25	M				CS
3	24		82–86	As above.					2.0	M				CS
4	12		87–91	As above.					NR	M				CS
5	60		92–96	As above.					2.0	M				CS
6	60		97–100	2 foot wet sand seam at 99.0 feet, (Fluvial).	SW				4.0	M/W				CS
			101–104	**LEAN CLAY (CL)**, little silt, trace gravel, trace sand, plastic, gray 10YR 5/1, hard, (Glacial Till).	CL									
7	60		105–108	1" wet sand seam at 105.0 feet. As above, but stiff.					1.25	M				CS

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State of Wisconsin
Department of Natural Resources

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Boring Number **MW-18C** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
8	60		109–111	As above.					1.75	M				CS
9	60		112–116	As above.					2.0	M				CS
10	60		117–121	As above, no gravel.					1.75	M				CS
11	60		122–126	As above.					2.0	M				CS
12	60		127–131	As above, very stiff.					2.75	M				CS
13	60		132–136	As above.					2.25	M				CS
14	60		137–141	**SILTY SAND WITH GRAVEL (SM)** seam at 140.0 feet (1 foot), (Outwash).	SM				4.0	M				CS
			142–143	As above, hard.	CL									
15	60		144–146						4.0	M				CS

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **MW-18C** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
16	60		151 152 153 154 155	2" sand seam at 151.0 feet. **LEAN CLAY (CL)**, (Lab Class), some silt, trace gracel, trace sand, plastic, gray 10YR 5/1, very stiff. End of boring at 155.0 feet.					3.0	M	35	14	95.1	CS

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LOG OF TEST BORING

BORING NO.:	B-19
SHEET	1 of 1
PROJECT:	EMERALD PARK INC., LANDFILL
PROJECT NO.:	1397.03
LOCATION:	MUSKEGO, WI
SURFACE ELEVATION:	808.9
DRILLED BY:	MATECO / SES
DATE STARTED:	4-12 / 7-7-88
DATE COMPLETED:	4-12 / 7-8-88
CREW CHIEF:	NED TAGGART / JP
LOGGED BY:	JM
CHECKED BY:	AJM

SAMPLING NOTES NO.	TYPE	qu(T/ft²)	RECOVERY INCHES	DEPTH (ft.)	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
A1	CS	3.8->4.5	24		yellowish brown to brown, 10YR 5/4-4/3, SILTY CLAY, trace fine gravel, hard, plastic, moist, thin coated fractures (CL)
B1 B2 B3	CS	>4.5	59		2nd silty seam at 7.8 FT.
C1 C2 C3	CS	>4.5	60	10	dark grayish brown to dark gray, 10YR 4/2-4/1, SILTY GRAY, trace fine gravel, stiff to very stiff, plastic, moist, few coated fractures above 19.5 FT (CL)
D1 D2 D3	CS	2.5-3.5	58		
E1 E2 E3	CS	1.5-4.5	60	20	
F1 F2 F3	CS	1.5-2.3	58		
G1 G2 G3	CS	1.5-3.0	60	30	wet 1 inch sand seam at 31.3'
H1 H2 H3	CS	1.5-2.3	60		wet 0.5 FT clayey silt seam at 33'
I1 I2 I3	CS	.8-1.8	54	40	1 FT clayey sand seam at 40.7 FT
J1 J2 J3	CS	1.5-2.3	60		
K1 K2 K3	CS	1.0-3.3	55	50	silty seams 1/2 inch at 48-49 FT and [illegible] to 51 FT
L1 L2 L3	CS	1.3-2.0	53		4 inch wet sand seam at 55'
A1	CS	1.3-2.5	26	60	[Boring extended from 59-85' (7-7-88)]
B1 B2 B3	CS	1.5-1.8	58		- 0.5 FT silt seam at ~61 FT
C1 C2 C3	CS	1.8-2.3	60	70	pockets of silt from 61-85 FT.
D1 D2 D3	CS	1.8-2.0	60		
E1 E2 E3	CS	2.0-2.8	60	80	
F1 F2	CS	1.5-3.0	36		End of Boring @ 85'

NOTES	WATER LEVEL OBSERVATIONS			
DRILLING METHODS: HSA WITH 4 1/4" ID CONTINUOUS TUBE SAMPLE	FIRST OCCURENCE: dry while drilling			
	DATE/TIME			
BOREHOLE DIAMETER: 7 INCHES	DEPTH TO WATER			
DRILL RIG: CME 850	DEPTH TO CAVE IN			

F-203A (R 09-87)

State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		B-19A

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Vince Bennett	5/15/96	5/15/96	4" Geobarrel

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	815.6 Feet MSL	4.0 Inches

Boring Location
State Plane N, E
NE 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "
Local Grid Location (If applicable)
5974.00 ☒ N Feet ☐ S
6319.00 ☒ E Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			1	Blind drilled to 85.0 feet. See log B-19 for description.										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											

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

Signature: Thomas E. Kock

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-19A** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			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											
			51											
			52											
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											
			66											

Boring Number **B-19A** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			67											
			68											
			69											
			70											
			71											
			72											
			73											
			74											
			75											
			76											
			77											
			78											
			79											
			80											
			81											
			82											
			83											
			84											
18	60		85	**LEAN CLAY (CL)**, plastic, gray 10YR 5/1, moist, hard, (Glacial Till).	CL				4.5	M				CS
			86											
			87											
			88											
			89											
			90											
19	60		91	**LEAN CLAY (CL)**, trace fine gravel, plastic, gray 10YR 5/1, moist, very stiff, (Glacial Till).	CL					M				CS
			92											
			93											
			94											
			95											
20	60		96						4.5	M				CS
			97											
			98											
			99											
			100											
21	60		101	As above, hard.					3.0	M				CS
			102											
			103											
			104											
			105											
22	54		106	As above, very stiff.					3.0	M				CS
			107											
			108											

Boring Number **B-19A** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			109											
23	60		110, 111, 112	As above, but with dark gray (10YR 4/1) clay seams throughout.					3.0	M				CS
			113, 114											
24	36		115, 116	As above.					3.0	M				CS
			117, 118	As above.										
25	60		119, 120, 121, 122	**LEAN CLAY (CL)**, trace fine gravel, plastic, gray 10YR 5/1, very stiff, (Glacial Till).	CL				2.5	M				CS
			123, 124											
26	24		125, 126						2.0	M				CS
			127, 128											
27	60		129, 130, 131	As above, stiff.					3.5	M				CS
			132, 133											
28	60		134, 135, 136, 137	As above, but with dark gray (10YR 4/1) layers throughout, very stiff.					4.0	M				CS
			138, 139											
29	60		140, 141	As above.					4.0	M				CS
			142, 143											
30	30		144, 145, 146	As above.					4.5	M				CS
			147, 148	Hit cobble at 147.5 feet.										
			149, 150											

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-19A** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
31	6		151	As above at 135.0 feet, but with fine to coarse sand.	CL				4.5	M				CS
			152	Pushing rock. Lean clay in spoon.										
			153											
			154											
			155											
32	60		156	**SILTY SAND (SM)**, fine to coarse grained, not plastic, gray 10YR 5/1, wet, (Outwash).	SM					W				CS
			157											
			158											
			159											
			160											
33	60		161											CS
			162											
			163											
			164											
			165											
34	60		166	As above.						W				CS
			167											
			168											
			169											
			170											
35	6		171							W				CS
			172											
			173											
			174											
			175	Rock in tip of sampler, with trace clay and coarse gravel.										

End of boring at 175.0 feet.

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LOG OF TEST BORING

RMT

BORING NO.:	B-21
SHEET	1 of 1
PROJECT:	EMERALD PARK INC., LANDFILL
PROJECT NO.:	1397.03
LOCATION:	MUSKEGO, WI
SURFACE ELEVATION:	approx. 793
DRILLED BY:	~~MATEGO~~ SES / J. Patterson
DATE STARTED:	7-12-88
DATE COMPLETED:	7-12-88
CREW CHIEF:	~~NED TAGGART~~
LOGGED BY:	JM
CHECKED BY:	HJM

SAMPLING NOTES NO.	TYPE	qu(T/ft²)	RECOVERY INCHES	DEPTH (ft.)	VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS
A1 A2	CS	2.0-74.5	36		Black 10YR 2/1 SILTY CLAY, trace gravel, very stiff, non-plastic, moist (CL)
B1 B2	CS	1.0-74.5	30		Gray & yellow brown 10YR 5/1 - 10YR 5/8 SILTY SANDY CLAY, stiff to hard, moist (SC)
C1 C2 C3	CS	3.5-4.5	56	10	
D1 D2 D3	CS	2.5-3.0	58		dark gray, 10YR 4/1, SILTY CLAY, trace fine gravel, stiff to very stiff, plastic, moist (CL)
E1 E2 E3	CS	1.8-2.5	58	20	
F1	CS	2.0	16		
G1 G2 G3	CS	1.8-2.5	58	30	
H1 H2 H3	CS	1.3-2.8	57		
I1 I2 I3	CS	1.5-1.8	59	40	
J1 J2 J3	CS	1.5-2.5	60		
K1 K2 K3	CS	1.5-2.0	58	50	
L1 L2 L3	CS	2.3-2.5	58		
M1 M2 M3	CS	1.5-2.0	60	60	
N1 N2	CS	2.3	28		
				70	End of boring @ 65.3 FT
				80	

NOTES	WATER LEVEL OBSERVATIONS			
DRILLING METHODS: HSA WITH 4 1/4" ID CONTINUOUS TUBE SAMPLE	FIRST OCCURENCE:			
	DATE/TIME			
BOREHOLE DIAMETER: 7 INCHES	DEPTH TO WATER			
DRILL RIG: CME ~~330~~ 550	DEPTH TO CAVE IN			

F-203A (R 09-87)

State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.22		B-103

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Environmental and Foundation Drilling	12/12/95	12/19/95	4 1/4 ID/HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	788.2 Feet MSL	8.0 Inches

Boring Location
State Plane N, E
SE 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
4682 Feet ☒ N ☐ S
5955 Feet ☒ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	12		1–3	CLAYEY SAND (SC), non-plastic, black 10YR 2/1, (Topsoil).	SC					M				CS
2	51		3–7	LEAN CLAY (CL), trace fine to medium sand, with cobbles, plastic, yellowish brown 10YR 5/4, hard layers of silty, sandy clay at 3.8 feet, (Glacial Till).	CL				4.5+					CS
3	60		7–10	CLAYEY SILT (CL-ML), plastic, yellowish brown 10YR 5/4, very stiff, (Fluvial).	CL-ML				4.5	M				CS
4	24		10–12	LEAN CLAY (CL), plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).	CL				3.5	M	31	15	87.5	CS
5	60		12–17	As above, very stiff silt seam at 17.2 to 18.4 feet.					3.5	M				CS
6	60		17–22	As above, very stiff.					3.5	M				CS
7	60		22–25	As above, very stiff.	CL				2.5	M				CS

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

Signature: Thomas E Kaal

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

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Boring Number **B-103** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			26											
			27											
8	60		28	LEAN CLAY (CL), plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).					2.25	M				CS
			29											
			30											
			31											
			32											
9	60		33	As above, very stiff.					2.75	M				CS
			34											
			35											
			36											
			37											
10	60		38	As above, very stiff.					3.5	M	41	21	99.8	CS
			39											
			40											
			41											
			42											
11	60		43	As above, very stiff.					2.75	M				CS
			44											
			45											
			46											
			47											
12	60		48	As above, very stiff.					2.25	M				CS
			49											
			50											
			51											
			52											
13	60		53	As above, very stiff.					2.5	M				CS
			54											
			55											
			56											
			57											
14	60		58	As above, occasional silt partings at 59.5 feet, very stiff.					3.0	M				CS
			59											
			60											
			61											
			62											
15	60		63	As above, with occasional silt partings, stiff.					2.0					CS
			64											
			65											
			66											

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Boring Number **B-103** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
16	60		67–70	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).					2.5	M				CS
17	60		71–74	As above, with occasional silt partings, stiff.					1.5	M				CS
18	60		75–79	As above, with occasional silt partings.					2.0	M				CS
19	60		80–84	As above, with occasional silt partings, very stiff.					3.0	M				CS
20	60		85–89	As above, with occasional silt partings, very stiff.					3.5	M				CS
21	60		90–94	As above, with occasional silt partings, very stiff.					3.0	M				CS
22	60		95–99	As above, with occasional silt partings, stiff.					1.5	M				CS
23	60		100–104	As above, with occasional partings, very stiff.					3.0	M				CS

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-103** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
24	60		109–112	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, stiff, silt layer from 108.8 to 109.2 feet, (Glacial Till).					2.0	M				CS
25	60		113–117	As above, with occasional silt partings, stiff.					1.5	M				CS
26	60		118–122	**LEAN CLAY (CL)**, trace gravel, dark gray 10YR 4/1, plastic, with occasional silt and fine sand partings, very stiff, (Glacial Till).					2.5	W				CS
27	60		123–127	Fine sand partings grade out at 123.0 feet. As above.					3.5	M				CS
28	60		128–132	As above, stiff.					1.5	M				CS
29	60		133–137	As above, stiff.					1.5	M				CS
30	60		138–142	**SILTY SAND (SM)**, fine to very fine, poorly graded, gray 10YR 5/1, (Outwash).	SM					W				CS
31	60		143–147	As above.						W	NV	NP	27.6	CS
32	24		148–150	As above.						W				CS

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A 7-91

Boring Number **B-103** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
33	6	50/6"												
34	12		151	LEAN CLAY (CL), trace gravel, plastic, brown to gray, with silt seams and partings, (Glacial Till).	CL									CS
35	12		152											CS
36	60		153											CS
			154	Gray silt from 153.0 to 153.5 feet.					5.0	M				CS
			155	LEAN CLAY (CL), trace gravel, plastic, dark gray 10YR 4/1, hard.										
			156											
37	60		157	As above, hard.					5.0	M	32	16	90.9	CS
			158											
			159											
			160											
			161											
38	60		162	As above, hard.					5.0	M				CS
			163											
			164											
			165											
9	0		166	NO RECOVERY, driller reported no change in drilling.										CS
			167											
			168											
			169											
			170											
			171											
			172											
40	60		173	As above, very stiff.					2.5	M				CS
			174											
			175											
			176											
			177											
41	60		178	As above, hard.					4.5	M				CS
			179											
			180											
			181											
			182											
42	60		183	As above, very stiff.					3.0	M				CS
			184											
			185											
			186											
			187											
3	0		188	NO RECOVERY, pushed cobble.										CS
			189											
			190											
			191											

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Boring Number **B-103** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			192											
44	60		193–197	**LEAN CLAY (CL)**, trace gravel, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).					3.0					CS
45	60	CL	198–201	**SILT (ML)**, little gravel and occasional lean clay seams, dark gray 10YR 4/1, very stiff, (Fluvial).	ML				3.5	M				CS
			202–208	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, little gravel.	CL									
46	6	100/6"	209	**AUGER REFUSAL AT 208.5 FEET.** Weathered Dolomite.										CS

End of boring at 209 Feet.

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.22		B-104

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Giles Engineering	12/12/95	12/15/95	4 1/4 ID/HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	781.5 Feet MSL	8.0 Inches

Boring Location
State Plane N, E
SW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
4330 ☒ N ☐ S Feet
4620 ☒ E ☐ W Feet

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	18		1	SILT (ML), trace fine sand, trace organics, yellowish brown 10YR 5/4, (Topsoil).	ML					M				SS
2	20		2							M				SS
3	20		3	LEAN CLAY (CL), plastic, yellowish brown 10YR 5/4, trace fine sand, (Glacial Till).	CL									SS
4	24		4	As above.										SS
5	16		5	As above, fine to coarse sand seam at 8.5 feet and 9.6 to 9.9 feet.										SS
6	20		6	SILT (ML), yellowish brown 10YR 5/4.	ML					M				SS
7	20		7	As above, with fine to coarse sand, (Fluvial).						M	28	12	85.9	SS
8	24		8	LEAN CLAY (CL), plastic, trace fine sand at 13.9 feet, dark gray 10YR 4/1, (Glacial Till).	CL									SS
9	24		9	As above, trace fine and at 14.8 feet.						M				SS
10	24		10	As above.						M				SS
11	24		11							M				SS
12	24		12	As above.						M				SS
13	24		13							M				SS

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

Signature: Thomas E. Kaal

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-104**

Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
14	24		26–27	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, (Glacial Till).	CL					M				SS
15	24		28–29	As above, some fine sand.						M				SS
16	20		30–31							M				SS
17	24		32–33	As above.						M				SS
18	19		34–35							M				SS
19	24		36–37	As above.						M				SS
20	18		38–39							M				SS
21	24		40–41							M	49	26	96.6	SS
22	24		42–43	As above.						M				SS
23	24		44–45							M				SS
24	24	10	46–47	As above, stiff.						M				SS
25	24	10	48–49							M				SS
26	24	9	50–51							M				SS
27	24	14	52–53	As above.						M				SS
28	24	14	54–55							M				SS
29	24	14	56–57	As above, very stiff.						M				SS
30	24	15	58–59							M				SS
31	24	10	60–61							M				SS
32	24	18	62–63	As above, stiff.						M				SS
33	24	26	64–65							M				SS
			66											

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-104**

Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
34	24	23	67	LEAN CLAY (CL), plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).						M				SS
35	24	16	68							M				SS
			69											
36	24	14	70							M				SS
			71											
37	24	13	72							M				SS
			73	As above, very stiff.										
38	24		74							M				SS
			75											
39	24	13	76							M				SS
			77	As above, stiff.										
40	24	16	78							M				SS
			79											
41	24	14	80							M				SS
			81											
42	24	14	82							M				SS
			83	As above, very stiff.										
43	24	18	84							M				SS
			85						1.0	M				SS
44	24	18	86											
			87	As above.					1.5	M				SS
45	24	16	88											
			89						1.25	M				SS
46	24	17	90											
			91						1.75	M				SS
47	24	32	92											
			93	As above, stiff.					2.5	M				SS
48	24	18	94											
			95						1.5	M				SS
49	24	17	96											
			97	As above, stiff.					1.75	M				SS
50	24	21	98											
			99							M				SS
51	24	20	100											
			101						2.0	M				SS
52	24	24	102											
			103	As above, very stiff.					2.25	M				SS
53	24	28	104											
			105						3.25	M				SS
	24	38	106											
			107	As above, very stiff.					3.0	M				SS
			108											

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-104**

Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
55	24	25	109	LEAN CLAY (CL), plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).					3.25	M				SS
56	24	25	110											
			111						2.75	M				SS
57	24	28	112											
			113	As above, very stiff.					3.5	M				SS
58	17	25	114											
			115						3.25	M				SS
59	24	40	116											
			117	SILTY SAND (SM), fine grained, gray, (Outwash).	SM				1.5	M				SS
60	16	17	118											
			119	LEAN CLAY (CL), plastic, dark gray 10YR 4/1, very stiff.					3.25	M				SS
61	24	18	120											
			121	Fine sand seam 120.8 to 121.2 feet.	CL				3.75	M				SS
62	24	22	122											
			123						3.5	M				SS
63	16	13	124											
			125							M				SS
64	24	26	126											
			127	As above, trace fine sand.					2.5	M				SS
65	24	19	128											
			129						2.75	M				SS
66	24	19	130											
			131							M				SS
67	11	35/9 5"	132											
			133	As above, trace gravel.						M				SS
68	6	110/6	134											
			135							M				SS
69	24	90	136											
			137	As above, hard.						M				SS
70	4	50/2"	138	Rock fragments from 137.5 to 138 feet.										
			139							M				SS
			140	As above, rock fragments, hard.										
				End of boring at 140 Feet.										

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.22		B-105

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Giles Engineering	12/19/95	12/20/95	3 1/2 ID/HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	781.6 Feet MSL	7.3 Inches

Boring Location
State Plane N, E
SW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
4791 Feet ☒ N ☐ S
4615 Feet ☒ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	27		1–2	**LEAN CLAY (CL)**, yellowish brown 10YR 5/4, hard 1.5 feet, (Topsoil).	CL				4.5	M				CS
			3–6	**SILTY SAND (SM)**, fine grained, poorly sorted, yellowish brown 10YR 5/4 and dark gray 10YR 4/1 to 6.0 feet, (Outwash).	SM									
2	60								4.0	M				CS
			7–10	**LEAN CLAY (CL)**, yellowish brown 10YR 5/4 to dark gray 10YR 4/1, mottled, plastic, hard to 1.5 feet, (Glacial Till).										
3	60				CL				4.75	M				CS
			11–12	Brown silty sand and gravel seam 10.5 to 11.0 feet.										
			13–25	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, hard. As above, stiff, (Glacial Till).										
4	60								2.0	M				CS
5	60			As above, soft.					0.5	M				CS

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

Signature: Thomas E. Koel

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-105** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
6	60		26–28	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).	CL				2.75	M				CS
7	60		29–33	As above, stiff.					1.25	M				CS
8	60		34–38	As above, stiff.					2.0	M				CS
9	60		39–43	As above, medium stiff.					1.0	M				CS
10	60		44–48	As above, stiff.					1.25	M				CS
11	60		49–53	As above, stiff.					1.25	M				CS
12	60		54–58	As above, medium stiff.					1.0	M				CS
13	60		59–63	As above, very stiff.					2.75	M				CS
14	60		64–66	As above, very stiff.	CL				2.5	M				CS

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Boring Number **B-105** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67						2.25	M				
			68											
			69											
15	60		70	LEAN CLAY (CL), plastic, dark gray 10YR 4/1, very stiff, sand seam at 68.0 feet, (Glacial Till).					3.5	M				CS
			71											
			72											
			73											
16	60		74	As above, very stiff.					2.75	M				CS
			75											
			76											
			77											
			78											
17	60		79	As above, stiff.					2.0	M				CS
			80											
			81											
			82											
			83											
18	60		84	As above, stiff.					1.5	M				CS
			85											
			86											
			87											
			88											
19	60		89	As above, very stiff.					3.0	M				CS
			90											
			91											
			92											
			93											
20	60		94	As above, very stiff.					2.25	M				CS
			95											
			96											
			97											
			98											
21	60		99	As above, hard.					4.5	M				CS
			100											
			101											
			102											
			103											
22	60		104	As above, hard.					4.0	M				CS
			105											
			106											
			107											
			108											

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-105** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
23	60		109–111	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, trace gravel, very stiff, (Glacial Till).	CL				2.5	M				CS
24	60		114–117	As above, trace gravel, very stiff.					2.75	M				CS
25	42		119–121	As above, hard.					3.75	M				CS
26	0		122–125	**SILTY SAND (SM)**, fine grained, non-plastic, poorly graded, dark gray 10YR 4/1, (Outwash).	SM					W				CS
			127–128	**NO RECOVERY** due to heaving sand.										
27	60		129–131	**LEAN CLAY (CL)**, trace fine sand, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).	CL				2.25	M				CS
28	60		134–136						2.5	M				CS
			137–138	**SILT (ML)**, clayey to trace clay, trace fine sand, (Fluvial).	ML									
29	24		139–142	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, hard, (Glacial Till).	CL				4.0	M				CS
			142	End of boring at 142 Feet.										

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.22		B-106

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Giles Engineering	12/19/95	12/21/95	3 1/2 ID/HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	775.7 Feet MSL	7.3 Inches

Boring Location
State Plane N, E
NW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
5303 ☒ N Feet ☐ S
4624 ☒ E Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	24		1	SILT (ML), non-plastic, yellowish brown 10YR 5/4 to black 10YR 2/1, with fine sand seams, (Topsoil).	ML									SS
2	24	9	2–3	As above, some clay, with fine sand, stiff.					1.5					SS
3	24	6	4–5						1.5	M				SS
4	24	9	6–7	LEAN CLAY (CL), plastic, yellowish brown 10YR 5/4, very stiff, (Glacial Till).	CL				2.75	M				SS
5	24	14	8–9	LEAN CLAY (CL), plastic, dark gray 10YR 4/1, very stiff.					2.75	M				SS
6	24	16	10–11	As above, very stiff.					4.0	M	29	13	85.7	SS
7	24	17	12–13	As above, hard.					4.25	M				SS
8	24	17	14–15						2.75	M				SS
9	24	15	16–17	As above, very stiff.					1.5	M				SS
10	24	13	18–19						1.5	M				SS
11	24	7	20–21	As above, very stiff.					3.0	M				SS
12	24	7	22–23						2.5	M				SS
13	24	5	24–25	As above, soft.					0.5	M				SS

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

Signature: Thomas E. Kuhl

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-106** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
14	24	11	26–27	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, stiff, (Glacial Till).	CL				2.0	M				SS
15	24	6	28–29	As above, stiff.					1.5	M				SS
16	24	6	30–31	As above, stiff.					1.0	M				SS
17	24	9	32–33	As above, stiff.					1.5	M				SS
18	24	7	34–35	As above, stiff.					2.0	M				SS
19	24	8	36–37	As above, medium stiff.					1.0	M				SS
20	24	11	38–39						1.0	M				SS
21	24	13	40–41	As above, medium stiff.					1.0	M	40	20	100.0	SS
22	24	13	42–43						1.5	M				SS
23	24	9	44–45	As above, stiff.					2.0	M				SS
24	24	9	46–47						1.5	M				SS
25	24	11	48–49	As above, stiff.					1.5	M				SS
26	24	9	50–51						1.5	M				SS
27	24	8	52–53	As above, stiff.					1.5	M				SS
28	60		54–55	As above, very stiff. Changed to continuous sampling method at 55.0 feet.					2.25	M				CS
29	60		56–57 58–59 60–61	**LEAN CLAY (CL)**, as above, stiff, (Glacial Till).	CL				2.0	M				CS
30	60		62–63 64–65 66	As above, stiff.					1.75	M				CS

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Boring Number **B-106** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67		CL									
			68											
			69											
31	60		70	LEAN CLAY (CL), plastic, dark gray 10YR 4/1, stiff, (Glacial Till).					1.75	M				CS
			71											
			72											
			73											
			74											
32	60		75	As above, stiff.					1.75	M				CS
			76											
			77											
			78											
			79											
33	60		80	As above, hard.					1.75	M				CS
			81											
			82											
			83											
			84											
34	60		85	As above, very stiff.					4.25	M				CS
			86											
			87											
			88											
			89											
35	60		90	As above, very stiff.					4.0	M				CS
			91											
			92											
			93											
			94											
36	60		95	As above, very stiff.					3.0	M				CS
			96											
			97											
			98											
			99											
37	48		100	As above, very stiff.					3.75	M				CS
			101											
			102											
			103											
			104											
	60		105	As above, very stiff.					3.75	M				CS
			106											
			107											
			108											

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-106** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			109											
39	60		110–112	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).					2.75	M				CS
			113–114											
40	60		115–119	As above, very stiff.					2.75	M				CS
			120											
41	42		121–124	**SILT (ML)**, and fine sand, dark gray 10YR 4/1, (Fluvial).	ML					W				CS
42	0		125											CS
			126–128	**NO RECOVERY**, heaving sand, driller cleaned hole and sampled 130.0 to 135.0 feet, (Outwash).										
43	14		129–135	As above.	SM									CS
				End of boring at 135 Feet.										

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		B-107

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Environmental and Foundation Drilling	12/21/95	1/2/96	4 1/4 ID/HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	787.5 Feet MSL	8.0 Inches

Boring Location
State Plane 4805.00 N, 5456.00 E
SW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
4805 Feet ☒ N ☐ S
5456 Feet ☒ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	36		1–2	SILT (ML), some clay, trace fine sand and gravel, yellowish brown 10YR 5/4, frozen, (Topsoil).	ML									CS
2	36		3–6	LEAN CLAY (CL), trace gravel, plastic, yellowish brown 10YR 5/4, mottled, occasional fine to coarse sand layers, stiff, (Glacial Till).	CL				2.0	W				CS
3	24		7–11	GRAVELLY SAND (GW), fine to coarse sand, well graded, trace clay, (Fluvial).	GW				2.25	W				CS
4	60		12–17	LEAN CLAY (CL), fine gravel, dark gray 10YR 4/1, occasional silt partings, stiff, (Glacial Till).	CL				2.25	M				CS
5	48		18–22	As above, medium stiff.					1.5	M				CS
6	60		23–25	As above, hard.					4.0	M				CS

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

Signature: [signature]

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-107**

Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			26											
			27		CL									
7	60		28–30	**LEAN CLAY (CL)**, fine gravel, dark gray 10YR 4/1, stiff, (Glacial Till).					2.0	M				CS
			31–32											
8	60		33–36	As above, stiff.					1.5	M				CS
			37											
9	60		38–41	As above, stiff.					2.0	M				CS
			42											
10	60		43–46	As above, stiff.					2.0	M				CS
			47											
11	60		48–51	As above, very stiff.					3.0	M				CS
			52											
12	60		53–56	As above, stiff.					2.0	M				CS
			57											
13	60		58–61	As above, very stiff.					3.0	M				CS
			62											
14	60		63–66	As above, very stiff.					2.5	M				CS

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-107** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
15	60		67–69	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).	CL				2.5	M				CS
16	60		73–75	As above, very stiff.					3.5	M				CS
17	60		78–80	As above, very stiff.					3.5	M				CS
18	60		83–85	As above, hard.					4.5	M				CS
19	60		88–90	As above, very stiff.					3.5	M				CS
20	60		93–95	As above, hard.					4.5	M				CS
21	60		97–99	Gray, very fine sand parting 96.5 to 97.0 feet.					3.0	M				CS
22	60		100–104	As above, trace gravel, occasional silt partings, very stiff. As above, very stiff.					4.0	M				CS

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-107** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
23	60		109–113	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, hard, (Glacial Till).					4.5+					CS
24	48		113–115	**SILTY SAND (SM)**, fine to coarse grained with gravel, little clay, (Fluvial).	SM CL				4.5+	W W				CS
			116–118	**LEAN CLAY (CL)**, trace gravel, plastic, dark gray 10YR 4/1, (Glacial Till).										
25	60		118–120	**SILTY SAND (SM)**, fine to coarse grained, with gravel, little clay, (Fluvial).	SM					M				CS
26	60		121–124	**LEAN CLAY (CL)**, plastic, little gravel, dark gray 10YR 4/1, occasional silt seams 125.0 to 126.0 feet, hard, (Glacial Till).					4.5+	M				CS
27	60		125–129	As above, hard.	CL				4.5	M				CS
28	48		130–134	As above, very stiff.					4.0	M				CS
29	48		135–139	As above, hard.					4.5	M				CS
			140–142	Silty sand seam 140.5 to 141.1 feet.										
				End of boring at 142 Feet.										

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.22		B-108

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Giles Engineering	12/21/95	12/21/95	3 1/2 ID/HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	797.0 Feet MSL	7.3 Inches

Boring Location
State Plane N, E
SE 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
5338 Feet ☒ N ☐ S
6097 Feet ☒ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	24		1–3	LEAN CLAY (CL), trace fine gravel, plastic, yellowish brown 10YR 5/4, light brown and gray mottles, stiff, (Glacial Till).	CL				2.5	M				CS
2	48		4–8	As above, hard.					4.5	M				CS
3	60		9–13	LEAN CLAY (CL), plastic, dark gray 10YR 4/1, hard, (Glacial Till).	CL				4.75	M				CS
4	60		14–18	As above, stiff.					1.25	M				CS
5	60		19–25	As above, stiff.					1.25	M				CS

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

Signature: Thomas E. Kaal

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

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Boring Number **B-108** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
6	60		26–28	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, stiff, (Glacial Till).	CL				1.25	M				CS
7	60		29–33	As above, stiff.					1.5	M				CS
8	60		34–38	As above, stiff.					1.25	M				CS
9	60		39–43	As above, medium stiff.					.75	M				CS
10	60		44–48	As above, stiff.					2.0	M				CS
11	60		49–53	As above, very stiff.					2.5	M				CS
12	60		54–58	As above, very stiff.					2.25	M				CS
13	60		59–63	As above, very stiff.					3.0	M				CS
14	60		64–66	As above, very stiff.					2.5	M				CS

Boring Number **B-108** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			67											
			68											
15	60		69	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).	CL				3.5	M				CS
			70											
			71											
			72											
			73											
16	60		74	As above, very stiff.					3.25	M				CS
			75											
			76											
			77											
			78											
17	60		79	As above, hard.					4.5	M				CS
			80											
			81											
			82											
			83											
18	60		84	As above, hard.					4.5	M				CS
			85											
			86											
			87											
			88											
19	60		89	As above, hard.					4.25	M				CS
			90											
			91											
			92											
			93											
20	60		94	As above, very stiff.					2.5	M				CS
			95											
			96											
			97											
			98											
21	60		99	As above, very stiff.					2.25	M				CS
			100											
			101											
			102											
			103											
22	60		104	As above, very stiff.					2.25	M				CS
			105											
			106											
			107											
			108											

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-108** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
23	60		109–111	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).	CL				3.5	M				CS
24	60		114–115	As above, very stiff.					2.25	M				CS
25	60		119–120	As above, very stiff.					2.75	W				CS
26	60		124–125	As above, very stiff.					2.5	M				CS
27	60		129–130	4" sand seam at 128.5 feet. As above, very stiff.					3.75	M				CS
28	60		134–135	As above, very stiff.					3.5	M				CS
29	60		139–140	As above, very stiff.					3.75	M				CS
30	60		144–145	As above, very stiff.					4.0	M				CS

Depth In Feet: 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150

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Department of Natural Resources

Soil Boring Log Information Supplement

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Boring Number **B-108** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
31	60		151 152 153 154	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, hard, (Glacial Till).	CL				4.5	M				CS
32	12		155	As above, very stiff.					3.25					CS
				End of boring at 155 Feet.										

State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.22		B-110

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Environmental and Foundation Drilling	12/19/95	12/20/95	4 1/4 ID/HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	788.6 Feet MSL	8.0 Inches

Boring Location
State Plane N, E
NW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
6087 ☒ N Feet ☐ S
5058 ☒ E Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	48		1	SILT (ML), black 10YR 2/1, little fine sand, organics, (Topsoil).	ML				2.0	M				CS
			2	LEAN CLAY (CL), plastic, little gravel, yellowish brown 10YR 5/4 and gray 10YR 5/1, mottling, hard, (Glacial Till).	CL									
2	60		3–5						4.5	M				CS
3	36		9–10	As above, hard.					4.5	M				CS
4	0		14–15	NO RECOVERY, no change noted by driller.										CS
5	60		19–20	LEAN CLAY (CL), plastic, dark gray 10YR 4/1, (Glacial Till).										CS

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

Signature: James S. Kal

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

Boring Number **B-110** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
6	60		26–28	**LEAN CLAY (CL)**, trace gravel, plastic, dark gray 10YR 4/1, medium stiff, (Glacial Till).	CL				2.0	M				CS
7	60		29–33	As above, medium stiff.					1.5	M				CS
8	60		34–38	As above, stiff.					2.0	M				CS
9	60		39–43	As above, very stiff.					2.5	M				CS
10	60		44–48	As above, stiff.					2.0	M				CS
11	60		49–53	As above, stiff.					1.25	M				CS
12	24		54–58	Pushed rock, stiff.					2.5	M				CS
13	0		59–62	**NO RECOVERY**, pushed rock.										CS
14	12		63–64	As above, from auger.										CS
15	48		65–66	As above, stiff.					2.0	M				CS

Boring Number **B-110** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67											
			68											
16	60		69, 70	As above, fine to medium sand seam 71.5 to 71.6 feet.					3.0	M				CS
			71, 72, 73											
17	60		74, 75	As above, very stiff.					3.0	M				CS
			76, 77, 78											
18	60		79, 80	As above, hard.					4.5	M				CS
			81, 82, 83											
19	60		84, 85	As above, very stiff.					3.0	M				CS
			86, 87, 88											
20	60		89, 90	As above, very stiff.					3.5	M				CS
			91, 92, 93											
21	60		94, 95	As above, stiff.					1.5	M				CS
			96, 97, 98											
22	60		99, 100	As above, stiff.					1.25	M				CS
			101, 102, 103											
23	60		104, 105	As above, silt seam from 106.0 to 106.3 feet, more silt from 106.3 to 114.0 feet, very stiff.					2.25	M				CS
			106, 107, 108											

Boring Number **B-110** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
24	60		109–113	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, hard, (Glacial Till).	CL				4.5	M				CS
25	60		114–118	As above, hard.					4.0	M				CS
26	60		119–121	As above, silty sand seam 119.0 to 119.5 feet, and 120.5 to 122.0 feet.					3.5	M				CS
			122–123	**SILT (ML)**, fine grained, poorly graded, dark gray 10YR 4/1, (Fluvial).	ML					W				
27	60		124–127	**SILTY SAND (SM)**, dark gray 10YR 4/1, fine grained, poorly graded, (Outwash).	SM									CS
28	60		128–129	**SILT (ML)**, dark gray 10YR 4/1, (Fluvial).	ML					W				CS
			130–132	**SILTY SAND (SM)**, poorly graded, dark gray 10YR 4/1, fine grained, (Outwash).	SM					W				
29	60		133–135	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, plastic, hard, (Glacial Till).	CL				4.0	M				CS
			136–138	**SILTY SAND (SM)**, fine grained, dark gray 10YR 4/1, poorly graded, (Outwash).	SM									
30	60		139–140	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, hard, (Glacial Till).	CL				3.0	M				CS
			141	**SILTY SAND (SM)**, (Outwash).	SM									
31	60		142–147	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, with cobbles, very stiff, (Glacial Till). As above, stiff.	CL				1.5	M				CS
			147	End of boring at 147 Feet.										

State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.22		B-111

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Environmental and Foundation Drilling	1/2/96	1/5/96	4 1/4 ID/HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	820.3 Feet MSL	8.0 Inches

Boring Location
State Plane N, E
NE 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
6079 Feet ☒ N ☐ S
6098 Feet ☒ E ☐ W

County	DNR County Code	Civil Town/City/or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	36		1 2 3	**LEAN CLAY (CL)**, yellowish brown 10YR 5/4 to gray 10YR 5/1, mottled, very stiff, (Glacial Till).	CL				3.5	M				CS
2	36		4 5 6 7	As above, little fine sand, trace gravel, medium stiff.	CL				1.0	M				CS
3	42		8 9 10 11 12 13	**LEAN CLAY (CL)**, dark gray 10YR 4/1, very stiff, (Glacial Till). As above, very stiff. Fine sand silt seam 12.1 to 12.3 feet.					3.5	M				CS
4	60		14 15 16 17 18	As above, brown mottles, black silt and organics 14.0 to 15.6 feet, stiff.					2.0	M				CS
5	60		19 20 21 22 23 24 25	As above, hard.					4.5	M				CS

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

Signature: Thomas E. Kaal

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-111** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
6	60		26–27–28	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, hard, (Glacial Till).	CL				4.5	M				CS
7	60		29–30–31–32–33	As above, hard.					4.5	M				CS
8	60		34–35–36–37–38	As above, very stiff.					3.5	M				CS
9	60		39–40–41–42–43	As above, very stiff, trace gravel at 44.0 feet.					2.5	M				CS
10	60		44–45–46–47–48	As above, very stiff.					2.5	M				CS
11	60		49–50–51–52–53	As above, stiff.					2.0	M				CS
12	60		54–55–56–57–58	As above, stiff.					2.0	M				CS
13	60		59–60–61–62–63	As above, stiff.					1.75	M				CS
14	60		64–65–66	As above, very stiff.					2.5	M				CS

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Boring Number **B-111** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			67		CL									
			68											
15	60		69, 70, 71	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).					3.5	M				CS
			72, 73											
16	60		74, 75	As above, very stiff.					3.5	M				CS
			76, 77, 78											
17	60		79, 80	As above, very stiff.					3.0	M				CS
			81, 82, 83											
18	60		84, 85	As above, very stiff, 2" silt seam at 88.0 feet.					2.5	M				CS
			86, 87, 88											
19	60		89, 90	As above, very stiff.					3.5	M				CS
			91, 92, 93											
20	60		94, 95	As above, very stiff.					3.0	M				CS
			96, 97, 98											
21	56		99, 100	As above, very stiff.					3.0	M				CS
			101, 102, 103											
22	60		104, 105	As above, very stiff.					3.5	M				CS
			106, 107, 108											

Boring Number **B-111** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
23	56		109–111	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).					3.5	M				CS
24	60		114–118	As above, very stiff.					3.0	M				CS
25	60		119–123	As above, very stiff.					3.0	M				CS
26	60		124–128	As above, very stiff.					2.0	M				CS
27	60		129–133	As above, very stiff.					2.0	M				CS
28	60		134–138	As above, very stiff, 3" silt seam at 139.0 feet.					2.0	M				CS
29	60		139–143	As above, very stiff.					3.25	M				CS
30	54		144–148	As above, very stiff.					2.0	M				CS
31	60		149–150	As above, hard, 2.1" silt seam at					4.0	M				CS

Boring Number **B-111** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			151	149.6 feet.										
			152											
			153											
32	60		154	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, hard, 2" silt seam at 156.0 feet and 2" silt seam at 158.0 feet, (Glacial Till).					4.0	M				CS
			155											
			156											
			157											
			158											
33	60		159	As above, very stiff.					3.5	M				CS
			160											
			161											
			162											
			163											
34	60		164	As above, medium stiff.					1.0	M				CS
			165											
			166											
			167											
			168	**SILTY SAND (SM)**, fine grained, dark gray, 10YR 4/1, (Outwash).	SM					M				CS
35	0		169											
			170											
			171											
			172	**NO RECOVERY**, probably still in sand.										
			173											
			174	End of boring at 174 Feet.										

State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.22		B-112

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Giles Engineering	1/2/96	1/5/96	3 1/2 ID/HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	805.8 Feet MSL	7.3 Inches

Boring Location
State Plane N, E
NW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
5781 Feet ☒ N ☐ S
6099 Feet ☒ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	6		1 2 3	**LEAN CLAY (CL)**, trace organics, yellowish brown 10YR 5/4, frozen, (Glacial Till).	CL									CS
2	24		4 5 6 7 8	As above, hard.					4.5	M				CS
3	60		9 10 11 12 13	As above, very stiff.					3.75	M				CS
4	60		14 15 16 17 18	As above, with gray and brown mottles, stiff.					1.75	M				CS
5	60		19 20 21 22 23 24 25	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, stiff, (Glacial Till). Silt seams at 22.0 and 22.5 feet.	CL				1.5	M				CS

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

Signature: Thomas E. Kaal

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

Boring Number **B-112** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
6	60		26–27–28	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, stiff, (Glacial Till).	CL				1.25	M				CS
7	60		29–30–31–32–33	As above, stiff.					1.25	M				CS
8	60		34–35–36–37–38	As above, stiff.					1.5	M				CS
9	60		39–40–41–42–43	As above, stiff.					1.5	M				CS
10	60		44–45–46–47–48	As above, very stiff. Silt parting at 45.0 feet.					2.5	M				CS
11	60		49–50–51–52–53	As above, stiff.					1.5	M				CS
12	60		54–55–56–57–58	As above, very stiff.					3.5	M				CS
13	60		59–60–61–62–63	As above, very stiff.					2.25	M				CS
14	60		64–65–66	As above, very stiff.					2.25	M				CS

Boring Number **B-112** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67		CL									
			68											
15	60		69–71	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, hard, (Glacial Till).					4.5	M				CS
			72–73											
16	60		74–76	As above, trace gravel, very stiff.					3.25	M				CS
			77–78											
17	60		79–81	As above, hard.					4.5	M				CS
			82–83											
18	60		84–86	As above, very stiff.					2.75	M				CS
			87–88											
19	60		89–91	As above, very stiff, sand seam at 92.0 feet.					2.75	M				CS
			92–93											
20	60		94–96	As above, very stiff, 1.0 foot sand seam at 99.0 feet.					2.75	M				CS
			97–98											
21	60		99–101	As above, very stiff.					3.0	M				CS
			102–103											
22	60		104–106	As above, very stiff.					3.5	M				CS
			107–108											

Boring Number **B-112** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
23	60		109–111	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).	CL				2.25	M				CS
24	60		114–115	As above, very stiff.					2.25	M				CS
25	60		119–120	As above, stiff.					2.0	M				CS
26	60		124–125	As above, very stiff.					2.25	M				CS
27	60		129–130	As above, stiff.					2.0	M				CS
28	60		134–135	As above, stiff.					2.0	M				CS
29	60		139–140	As above, stiff, silty sand seam at 142.0 feet.					2.0	M				CS
30	60		144–145	As above, hard, grades to **LEAN CLAY (CL)**, trace sand from 144.0 to 145.					2.0	W				CS

Boring Number **B-112** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
31	60		151 152 153	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).	CL				3.75	M				CS
32	60		154 155 156	As above, hard.					4.0	M				CS
			157 158	**SILTY SAND (SM)**, fine grained, dark gray 10YR 4/1, (Outwash).	SM									
33	24		159 160 161	As above.						M				CS
34	24		162 163 164							M				CS
				Grades to **LEAN CLAY (CL)** at 164.0 feet.										

End of boring at 164 Feet.

State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.22		B-113

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Environmental and Foundation Drilling	12/21/95	1/2/96	4 1/4 ID/HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	793.1 Feet MSL	8.0 Inches

Boring Location
State Plane N, E
NW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
5776 Feet ☒ N ☐ S
5463 Feet ☒ E ☐ W

County	DNR County Code	Civil Town/City/or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	48		1–3	**LEAN CLAY (CL)**, yellowish brown 10YR 5/4, brown and green mottles, little gravel at 1.5 feet, frozen, (Glacial Till).	CL									CS
2	60		4–8	As above, hard, light brown silt 8.1 to 8.3 feet.					4.0	M				CS
3	60		9–13	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, hard, (Glacial Till).	CL				4.0	M				CS
4	60		14–18	As above, stiff.					1.25	M				CS
5	60		19–25	As above, stiff.					1.0	M				CS

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

Signature: Thomas E. Kaal

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-113** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
6	60		26–28	**LEAN CLAY (CL)**, plastic, dark gray, 10YR 4/1, stiff, (Glacial Till).	CL				1.5	M				CS
7	60		29–33	As above, stiff, cobble at 31.8 feet.					1.5	M				CS
8	60		34–38	As above, stiff.					1.0	M				CS
9	60		39–43	As above, stiff.					2.0	M				CS
10	60		44–48	As above, medium stiff.					0.75	M				CS
11	60		49–53	As above, stiff.					2.0	M				CS
12	60		54–58	As above, very stiff.					2.25	M				CS
13	56		59–63	As above, hard.					4.0	M				CS
14	60		64–66	As above, very stiff.					3.0	M				CS

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Boring Number **B-113** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
15	60		67–70	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).	CL				3.75	M				CS
16	60		71–75	As above, very stiff, light brown fine sand seam at 78.7 feet.					3.0	M				CS
17	60		76–80	As above, hard.					4.5	M				CS
18	55		81–85	As above, very stiff.					3.75	M				CS
19	60		86–90	As above, stiff, silt seam 91.0 to 91.2 feet.					2.5	M				CS
20	60		91–95	As above, stiff.					2.0	M				CS
21	60		96–100	As above, stiff.					2.0	M				CS
22	60		101–105	As above, stiff.					2.0	M				CS

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-113** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
23	60		109–112	Silt seam 108.8 to 109.1 feet. **LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, stiff, (Glacial Till).	CL				2.0	M				CS
24	60		113–115	As above, very stiff.					3.0	M				CS
25	60		116–120	As above, very stiff.					3.0	M				CS
26	60		121–125	As above, very stiff.					2.5	M				CS
27	60		126–130	As above, very stiff.	SM				3.0	M				CS
28	60		131–135	**SILTY SAND (SM)**, fine grained, non-plastic, dark gray 10YR 4/1, (Outwash).					2.5	W				CS
29	0		136–144	**NO RECOVERY**, two unsuccessful tries to recover sample, probably still in fine sand.						W				CS

End of boring at 144 Feet.

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		B-114

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Environmental and Foundation Drilling	1/2/96	1/4/96	4 1/4 ID/HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	786.6 Feet MSL	8.0 Inches

Boring Location
State Plane 5342.00 N, 5465.00 E
NW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
5342 ☒ N ☐ S Feet
5465 ☒ E ☐ W Feet

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	36		1	**SILT (ML)**, yellowish brown 10YR 5/4, some clay, trace fine sand and gravel, (Topsoil).	ML									CS
			2		CL									
2	42		3–4	**LEAN CLAY (CL)**, trace fine sand, plastic, yellowish brown 10YR 5/4, stiff, (Glacial Till).					1.5	M				CS
			5–7	As above, trace coarse sand and gravel, occasional cobbles at 5.5 feet.							33	16	85.7	
3	0		8–12	**NO RECOVERY**, pushed stone.										CS
4	0		13–17	**NO RECOVERY**, pushed stone.										CS
5	60		18–25	**LEAN CLAY (CL)**, plastic, trace gravel, dark gray 10YR 4/1, occasional silt and silty fine sand seams from 23.0 to 28.0 feet, stiff, (Glacial Till).	CL				2.0	M				CS

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

Signature: Thomas E Kral

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-114** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
6	60		26, 27	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).	CL				3.0	M				CS
7	60		28, 29, 30, 31, 32	As above, very stiff, occasional silt seams at 33.0 feet.					2.5	M				CS
8	60		33, 34, 35, 36, 37	As above, very stiff.					2.5	M				CS
9	60		38, 39, 40, 41, 42	As above, very stiff.					2.5	M				CS
10	60		43, 44, 45, 46, 47	As above, very stiff.					2.5	M				CS
11	60		48, 49, 50, 51, 52	As above, stiff.					2.0	M				CS
12	60		53, 54, 55, 56, 57	As above, very stiff.					2.5	M				CS
13	60		58, 59, 60, 61, 62	As above, very stiff.					2.25	M				CS
14	60		63, 64, 65, 66	As above, very stiff.					2.5	M				CS

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-114** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
15	60		67–69	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).	CL				3.5	M				CS
16	60		70–74	As above, very stiff.					3.5	M				CS
17	60		75–79	As above, hard.					4.5	M				CS
18	60		80–84	As above, hard.					4.0	M				CS
19	60		85–89	As above, very stiff.					3.0	M				CS
20	60		90–94	As above, very stiff.					3.0	M				CS
21	60		95–99	As above, very stiff.					3.0	M				CS
22	60		100–104	As above, very stiff.					3.0	M				CS

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-114** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
23	60		109–112	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till). Fine to coarse sand seam at 111.0 feet.	CL				3.0	M				CS
24	60		113–116	**SILTY SAND (SM)**, fine grained, trace coarse sand, non-plastic, dark gray 10YR 4/1, (Fluvial).	SM									CS
25	60		117–122	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, hard. As above, very stiff.					4.0	M				CS
26	60		123–127	As above, very stiff.					3.5	M				CS
27	60		128–133	As above, hard.					4.5	M				CS
28	48		134–139	Alternating layer of **SILTY SAND AND GRAVEL (SM)**, fine to coarse grained, dark gray 10YR 4/1, and **LEAN CLAY (CL)**, as above, occasional layer of silty very fine sand.	SM / CL				4.5	W				CS
29	36		140–141	**SILTY SAND (SM)**, (Outwash).	SM									CS
			142–143	**LEAN CLAY (CL)**, (Glacial Till).	CL									
				End of boring at 143 Feet.										

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		B-122

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Vince Bennett	4/22/96	4/23/96	4" Geobarrel

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	783.7 Feet MSL	4.0 Inches

Boring Location
State Plane 4464.00 N, 5472.00 E
SW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
4464.00 Feet ☒ N ☐ S 5472.00 Feet ☒ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	18	8	1	TOPSOIL.					NR	M				SS
2	18	11	2–3	LEAN CLAY (CL), little silt, trace of gravel, yellowish brown 10YR 5/4, stiff, (Glacial Till).	CL				NR	M				SS
3	18	7	4–5						NR	M/W				SS
4	24		6–7	As above, little gravel, yellowish brown 10YR 5/4 to gray 10YR 5/1, wet zone at 5.5 feet.					1.0	W M				CS
5	60		8–13	LEAN CLAY (CL), little silt, trace of gravel, trace of sand, plastic, gray 10YR 5/1, very stiff, (Glacial Till).					3.5	M				CS
6	60		14–18	As above.					3.5	M				CS
7	60		19–25	As above.					2.5	M				CS

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

Signature: [signature]

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-122** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
8	60		26 27 28 29 30	As above, stiff.					1.5	M				CS
9	60		31 32 33 34	As above.					1.5	M				CS
10	60		35 36 37 38 39	As above.					2.0	M				CS
11	60		40 41 42 43 44	As above, very stiff.					2.5	M				CS
12	60		45 46 47 48 49	As above.					2.5	M				CS
13	60		50 51 52 53 54	As above.					2.0	M				CS
14	60		55 56 57 58 59	As above.					2.5	M				CS
15	60		60 61 62 63 64	As above.					2.5	M				CS
16	60		65 66						3.0	M				CS

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-122** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67	As above.										
			68											
			69											
17	60		70						>4.5	M				CS
			71	As above, trace of fine to medium gravel, hard.										
			72											
			73											
			74											
18	60		75						>4.5	M				CS
			76	As above.										
			77											
			78											
			79											
19	60		80						3.0	M				CS
			81	As above, trace of fine gravel, very stiff.										
			82											
			83											
			84											
20	60		85						3.0	M				CS
			86	As above.										
			87											
			88											
			89											
21	60		90						2.5	M/W				CS
			91	As above, occasional wet silt seams ~every 18 inches.										
			92											
			93											
			94											
22	60		95						4.0	M				CS
			96	As above, color change to dark grayish brown 10YR 5/2 at 97 ft.										
			97											
			98											
			99											
23	60		100						>4.5	M				CS
			101	As above, color change back to gray 10YR 5/1 at 102.5 ft., hard.										
			102											
			103											
			104											
24	60		105						4.0	M				CS
			106	As above.										
			107											
			108											

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A 7-91

Boring Number **B-122** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			109											
25	60		110–111	As above, trace of coarse gravel.					4.5	M				CS
			112–113											
			114											
26	6		115–116	As above, trace of fine to coarse gravel, hit a rock at 116.0 feet.					NR	M				CS
			117–118											
			119											
27	60		120–121	As above, trace of fine gravel, very stiff.					3.5	M				CS
			122–123											
			124											
28	60		125–126	As above.					4.0	M				CS
			127–128											
			129											
29	60		130–131	Same as above, hard.					>4.5	M				CS
			132–133	**SILT (ML)**, trace of gravel, trace of clay, gray 10YR 5/1, wet at 134.5 feet, dense, (Fluvial).	ML									
			134											
30	60		135–136	**LEAN CLAY (CL)**, little silt, trace of fine to medium gravel, plastic, gray 10YR 5/1 with brown mottling, hard, (Glacial Till).	CL				4.0	W M				CS
			137–138											
			139											
31	42		140–141	As above, wet silt seams from 140.0-143.0 feet.					>4.5	W				CS
			142–143											
			144											
			145	End of boring at 145.0 feet.										

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		B-123

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Vince Bennett	4/25/96	4/25/96	4" Geobarrel

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	781.1 Feet MSL	4.0 Inches

Boring Location
State Plane 4376.00 N, 5069.00 E
SW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "
Local Grid Location (If applicable)
4376.00 Feet ☒ N ☐ S 5069.00 Feet ☒ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	24	6	1	TOPSOIL, 5".										
			2	LEAN CLAY (CL), trace gravel, plastic, yellowish brown 10YR 5/4, medium stiff, (Glacial Till).	CL				2.0	M				SS
2	24	5	3							M				SS
3	24	6	4											
			5							M				SS
			6						4.0					
4	48		7	As above.										CS
			8							M				
			9											
			10											
5	60		11	As above, color to gray 10YR 5/1.										CS
			12						2.5	M				
			13											
			14											
			15											
6	60		16	As above, gravel seams 15.0 to 19.0 feet.										CS
			17						2.5	M				
			18											
			19											
			20											
7	60		21	As above.					2.5	M				CS
			22											
			23											
			24											
			25											

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

Signature

Firm RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A 7-91

Boring Number **B-123** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
8	60		26	As above.					2.0	M				CS
			27											
			28											
			29											
9	54		30	As above.										CS
			31						2.5	M				
			32											
			33											
			34											
10	60		35	As above.					2.0	M				CS
			36											
			37											
			38											
			39											
11	60		40						2.0	M				CS
			41	As above.										
			42											
			43											
			44											
12	60		45	As above, silt seams from 44.5 to 50.0 feet.					1.5	M/W				CS
			46											
			47											
			48											
			49											
13	60		50						2.5	M				CS
			51	As above, no silt seams.										
			52											
			53											
			54											
14	60		55						2.5	M/W				CS
			56											
			57	As above, wet silt seam at 57.0 feet.										
			58											
			59											
15	60		60	As above.					3.0	M				CS
			61											
			62											
			63											
			64											
16	60		65	As above.					3.0	M				CS
			66											

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-123** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67											
			68											
			69											
17	60		70						4.5	M				CS
			71	As above, hard.										
			72											
			73											
			74											
18	60		75						3.0	M				CS
			76	As above.										
			77											
			78											
			79											
19	60		80						3.0	M				CS
			81	As above.										
			82											
			83											
			84											
20	60		85	As above, color to dark grayish brown 10YR 4/2 at 85.0 feet.					3.0	M				CS
			86											
			87											
			88											
			89											
21	60		90	As above, hard.					4.5	M				CS
			91											
			92											
			93											
			94											
22	60		95						3.0	M				CS
			96	As above.										
			97											
			98											
			99											
23	60		100						3.0	M				CS
			101	As above.										
			102											
			103											
			104											
24	60		105						4.0	M				CS
			106	As above.										
			107											
			108											

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Boring Number **B-123** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			109											
25	60		110	As above.					4.0	M				CS
			111											
			112											
			113											
			114	Loose, 6" sand seam at 114.0 feet.						W				
			115											
26	54		116											CS
			117	Color to gray 10YR 5/1 at 116.0 feet.					4.0					
			118											
			119											
27	60		120	As above.						M				CS
			121						2.5					
			122											
			123											
			124											
28	60		125	As above, wet silt seams at 18" intervals from 125.0 to 130.0 feet.					4.5	W				CS
			126											
			127											
			128											
			129											
			130											
29	60		131	**SILT (ML)**, gray 10YR 5/1, sand seams from 130.0 to 140.0 feet, (Fluvial).	ML				4.5	W				CS
			132											
			133											
			134											
30	54		135						2.5	W				CS
			136	As above.										
			137											
			138	**LEAN CLAY (CL)**, plastic, gray 10YR 5/1, stiff, (Glacial Till).	CL					W				
			139											
			140	End of boring at 140.0 feet.										

State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		B-124

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Vince Bennett	4/26/96	4/30/96	4" Geobarrel

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	779.9 Feet MSL	4.0 Inches

Boring Location
State Plane 4785.00 N, 5052.00 E
NW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
4785.00 Feet ☒ N ☐ S 5052.00 Feet ☒ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	10		1	**WELL GRADED SAND WITH GRAVEL (SW)**, trace silt, gray 10YR 5/1, no odor.	SP					M				SS
2	18		2–3											SS
3	24		4–5	As above.					0.5	M				SS
4	7		6–7	**LEAN CLAY (CL)**, trace gravel, gray 10YR 5/1, very stiff, (Glacial Till).	CL				2.0	M				CS
5	36		8–11	As above.					2.0	M				CS
6	60		12–16	As above.					3.0	M				CS
7	60		17–21	As above.					2.5	M				CS
			22–25											

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

Signature: [signature]

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-124** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
8	60		26	As above, stiff.					1.5	M				CS
			27											
			28											
			29											
			30											
9	60		31	As above, very stiff.					2.2	M				CS
			32											
			33											
			34											
10	60		35	As above.					2.5	M				CS
			36											
			37											
			38											
			39											
11	60		40	As above.					2.0	M				CS
			41											
			42											
			43											
			44											
12	60		45	As above.					2.5	M				CS
			46											
			47											
			48											
			49											
13	60		50	As above.					3.0	M				CS
			51											
			52											
			53											
			54											
14	60		55	As above.					2.5	M				CS
			56											
			57											
			58											
			59											
15	60		60	As above.					3.5	M				CS
			61											
			62											
			63											
			64											
16	60		65	As above.					1.5	M				CS
			66											

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-124** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67–68–69	FAT CLAY (CH), 66.0 to 68.0 feet, gray 10YR 5/1, very plastic, stiff.	CH					M				
17	60		70–71–72–73–74	LEAN CLAY (CL), trace gravel, plastic, gray 10YR 5/1, hard, (Glacial Till).	CL				4.5	M				CS
18	60		75–76–77–78–79	As above, very stiff.					3.5	M				CS
19	24		80–81–82–83–84	As above, stiff.					1.5	M				CS
20	56		85–86–87–88–89	As above, very stiff.					3.5	M				CS
21	27		90–91–92–93–94	As above.					3.5	M				CS
22	60		95–96–97–98–99	As above, hard.					4.5	M				CS
23	60		100–101–102–103–104	As above, very stiff.					4.0	M				CS
24	60		105–106–107–108	As above.					4.0	M				CS

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Boring Number **B-124** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			109											
25	60		110–111	As above, hard.					4.5	M				CS
			112–113											
			114											
26	48		115–116	As above.					4.5	M				CS
			117–118											
			119											
27	24		120–121	As above.					4.5	M				CS
			122–123											
			124											
28	48		125–126	As above, very stiff.					3.5	M				CS
			127–128											
			129											
29	29		130–131						4.0	M				CS
			132–133	**SILTY SAND (SM)**, seam (2") at 132.0 feet.										
			134											
30	60		135–136						3.5	M				CS
			137	**SILTY SAND (SM)** at 136.0 feet, (1.5 foot), wet, flowing, (Outwash).	SM					W				
			138		CL									
			139	**LEAN CLAY (CL).**										
			140	End of boring at 140.0 feet.										

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
EPI 2655.27		B-126

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Steve Rempulski	5/16/96	5/17/96	4 1/4 HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	775.1 Feet MSL	9.0 Inches

Boring Location
State Plane N, E
NE 1/4 of SW 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
4923.00 Feet ☒ N ☐ S 4332.00 Feet ☒ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	54		1 2 3 4	LEAN CLAY (CL), plastic, yellowish brown 10YR 5/4, medium stiff, (Glacial Till).	CL				1.0	M				CS
2	60		5 6 7 8 9	As above, very stiff, grades to gray 10YR 5/1 at 8.0 feet.					3.5	M				CS
3	60		10 11 12 13 14	LEAN CLAY (CL), plastic, gray 10YR 5/1, very stiff, (Glacial Till).					3.25	M				CS
4	60		15 16 17 18 19	As above, medium stiff.	CL				1.0	M				CS
5	60		20 21 22 23 24 25	As above, stiff.					1.75	M				CS

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

Signature: William E. Kral

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-126** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
6	60		26–27	LEAN CLAY (CL), plastic, gray 10YR 5/1, stiff, (Glacial Till).					1.75	M				CS
			28–29											
7	60		30–31	As above.	CL				1.0	M				CS
			32–33											
8	60		34–35						1.25	M				CS
			36–37	As above.										
			38–39											
9	60		40–41	As above, stiff.					2.0	M				CS
			42–43											
			44											
10	60		45–46	As above.					1.75	M				CS
			47–48											
			49											
11a	24		50–51	As above.					1.0	M				SS
11b	24		52–53											SS
11c	12		54											SS
12	60		55–56	As above, stiff.					1.25	M				CS
			57–58	As above, stiff.										
13	60		59–60											
			61	As above, very stiff.					2.75	M				CS
			62–63											
			64											
14	60		65–66						2.75					CS

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Boring Number **B-126** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			67											
			68											
			69	LEAN CLAY (CL), plastic, gray 10YR 5/1, very stiff.										
			70											
15	60		71						3.5	M				CS
			72											
			73											
			74											
			75											
16	60		76	As above.					3.25	M				CS
			77											
			78											
			79											
			80											
17	60		81	As above.					3.0	M				CS
			82											
			83											
			84											
			85	As above, with occasional silt seams.										
18	54		86						4.0	M				CS
			87											
			88											
			89											
			90											
19	60		91	As above, dark gray 10YR 4/1.					3.0	M				CS
			92											
			93											
			94											
			95											
20	60		96	As above.					3.0	M				CS
			97											
			98											
			99											
			100											
21	60		101	As above.					3.0	M				CS
			102											
			103											
			104											
			105											
22	60		106	As above.					3.0	M				CS
			107											
			108											

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Boring Number **B-126** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			109											
23	60		110, 111, 112, 113, 114	As above.					2.75					CS
24	48		115, 116, 117, 118, 119	**SILTY SAND (SM)**, sand at tip, gray 10YR 5/1, (Outwash).	SM					W				CS
25	60		120, 121, 122, 123, 124	**LEAN CLAY (CL)**, plastic, with occasional silt seams, gray 10YR 5/1, very stiff, (Glacial Till).	CL				2.75	M				CS
26	60		125, 126, 127	**SILTY SAND (SM)**, non-plastic, gray 10YR 5/1, (Outwash).	SM					W				CS
27	60		128, 129, 130, 131, 132, 133, 134, 135	**LEAN CLAY (CL)**, plastic, 2 foot silt seam from 128.0 to 130.0 feet, gray 10YR 5/1, stiff, (Glacial Till).	CL				3.0	M				CS
28	12		136	End of boring at 136.0 feet.					2.5					CS

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		B-127

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Vince Bennett	5/6/96	5/6/96	4" Geobarrel

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	774.2 Feet MSL	4.0 Inches

Boring Location
State Plane 5301.00 N, 4329.00 E
NE 1/4 of SW 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
5301.00 ☒ N ☐ S Feet
4329.00 ☒ E ☐ W Feet

County: Waukesha
DNR County Code: 68
Civil Town/City/ or Village: Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	36		1–2	TOPSOIL.										CS
			2–4	LEAN CLAY (CL), plastic, brown 10YR 4/3, hard, (Glacial Till).	CL				4.5	M				
2	24		5–8	As above, but soft.					0.5	M				CS
			8–13	SILTY SAND (SM), fine to coarse, gray 10YR 5/1, loose, (Fluvial).	SM					W				
3	54								1.5	W				CS
			13–25	LEAN CLAY (CL), trace sand, plastic, gray 10YR 5/1, very stiff, (Glacial Till).	CL									
4	60								3.5	M				CS
5	60			As above, trace fine gravel, hard.					4.5	M				CS

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

Signature: [illegible]

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-127** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
6	60		26	As above, very stiff.					2.0	M				CS
			27											
			28											
			29											
7	60		30	As above, stiff.					1.5	M				CS
			31											
			32											
			33											
			34											
8	60		35						1.5	M				CS
			36	As above.										
			37											
			38											
			39											
9	60		40	As above.					2.0	M				CS
			41											
			42											
			43											
			44											
10	60		45						2.0	M				CS
			46	As above.										
			47											
			48											
			49											
11	60		50						1.5	M				CS
			51	As above.										
			52											
			53											
			54											
12	60		55						2.5	M				CS
			56	As above, very stiff.										
			57											
			58											
			59											
13	60		60	As above, color to grayish-brown 10YR 4/3, hard.					4.5	M				CS
			61											
			62											
			63	6" gravelly sand seam at 63.0 feet.	SP									
			64											
			65											
14	60		66						3.5	M				CS

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-127** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67	Color to gray 10YR 5/1 at 67.0 feet, very stiff, trace gravel.										
			68											
			69											
15	60		70						3.0	M				CS
			71	As above, color to gray and brown marbling at 75.0 feet.										
			72											
			73											
			74											
16	60		75						3.5	M				CS
			76											
			77											
			78											
			79											
17	60		80	As above, hard.					4.0	M				CS
			81											
			82											
			83											
			84											
18	60		85	As above, color to dark grayish brown 10YR 4/2 at 85.0 feet.					4.0	M				CS
			86											
			87											
			88											
			89											
19	60		90	As above.					4.5	M				CS
			91											
			92											
			93											
			94											
20	60		95						4.5	M				CS
			96	As above.										
			97											
			98											
			99											
21	60		100	As above.					4.0	M				CS
			101											
			102											
			103											
			104											
22	60		105						4.5	M				CS
			106	As above.										
			107											
			108											

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-127** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
23	2		109–114	No recovery.					NR	M				CS
24	60		115–119	**SILTY SAND (SM)**, fine to coarse, gray 10YR 5/1, loose, 4" clay seams at 116.5, 118.0, and 119.5 feet, (Outwash).	SM				3.0	W				CS
25	60		120–124	As above.					NR	W				CS
26	60		125–129	**LEAN CLAY (CL)**, plastic, gray 10YR 5/1, hard, (Glacial Till).	CL				4.0	M				CS
27	60		130–132	**SILTY SAND (SM)**, gray 10YR 5/1, loose, (Outwash).	SM					W				CS
			133–135	**LEAN CLAY (CL)**, trace gravel, plastic, 10YR 5/1, very stiff, (Glacial Till).	CL				3.5	M				

End of boring at 135.0 feet.

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		B-128

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Steve Rempulski	5/13/96	5/14/96	4 1/4 HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	781.9 Feet MSL	9.0 Inches

Boring Location
State Plane 5332.00 N, 5037.00 E
NW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
5332.00 ☒ N 5037.00 ☒ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	42		1	**LEAN CLAY (CL)**, trace gravel, plastic, yellowish brown 10YR 5/4, (Glacial Till).	CL				3.0	M				CS
			2											
			3											
			4											
			5											
2	60		6						4.0	M				CS
			7	As above.										
			8											
			9	Grades to gray 10YR 5/1.										
3	60		10						4.5	M				CS
			11											
			12	As above.										
			13											
			14											
4	14		15	As above, pushed rock.					1.75	M				CS
			16											
			17											
			18											
			19											
5	60		20						2.75	M				CS
			21											
			22											
			23											
			24											
			25											

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

Signature [signature]

Firm RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-128** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
6	60		26 27 28 29	**LEAN CLAY (CL)**, trace gravel, plastic, gray 10YR 5/1, (Glacial Till).					1.25	M				CS
7	60		30 31 32 33 34	As above.	CL				1.0	M				CS
8	60		35 36 37 38 39	As above.					1.25	M				CS
9	60		40 41 42 43 44	As above.					1.25	M				CS
10	60		45 46 47 48 49	As above, stiff.					1.25	M				CS
11	60		50 51 52 53 54	As above, medium stiff.					0.75	M				CS
12	60		55 56 57 58 59	As above, stiff. As above, stiff.					1.75	M				CS
13	60		60 61 62 63 64	As above.	CL				2.0	M				CS
14	60		65 66						2.5	M				CS

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-128** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			67											
			68											
			69											
15	60		70	**LEAN CLAY (CL)**, plastic, gray 10YR 5/1, very stiff, (Glacial Till).					1.25	M				CS
			71											
			72											
			73											
			74	As above, occasional silt seams, stiff.										
16	60		75						2.0	M				CS
			76											
			77											
			78											
			79											
17	60		80	As above, hard.					4.25	M				CS
			81											
			82											
			83											
			84											
18	60		85	As above, stiff.					1.5	M				CS
			86											
			87											
			88											
			89											
19	60		90	As above.	CL				1.25	M				CS
			91											
			92											
			93											
			94											
20	60		95	As above.					2.0	M				CS
			96											
			97											
			98											
			99											
21A	24		100	As above, very stiff.					2.5	M				CS
			101											
			102											
			103											
			104	As above, very stiff.										
21B	24		105						2.5	M				CS
			106											
			107											
22	24		108											CS

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Boring Number **B-128** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			109											
23	60		110, 111, 112	**LEAN CLAY (CL)**, occasional gravel, plastic, gray 10YR 5/1, stiff, (Glacial Till).					2.0	M				CS
			113, 114											
24	48		115, 116	As above, very stiff.					4.0	M				CS
			117, 118, 119											
25	48		120, 121	As above, stiff.	CL				3.5	M				CS
			122, 123, 124											
26	18		125, 126						3.5					CS
			127, 128, 129	As above, pushed cobble.						M				
27	24		130, 131						3.0					CS
			132, 133, 134, 135	As above, very stiff.						M				
28	60		136											CS
			137, 138, 139											
29	60		140, 141						2.5					CS
			142, 143	As above, 2 foot wet, fine sand seam at 142.0 feet, (Outwash).						W				
			144, 145	As above with occasional silt seams.										
				End of boring at 145.0 feet.										

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		B-129

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Vince Bennett	5/14/96	5/14/96	4" Geobarrel

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	787.7 Feet MSL	4.0 Inches

Boring Location
State Plane 5776.00 N, 5024.00 E
NW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "
Local Grid Location (If applicable)
5776.00 ☒ N 5024.00 ☒ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	36		1	**LEAN CLAY (CL)**, plastic, trace fine to coarse gravel, yellowish brown 10YR 5/4, hard, (Glacial Till).	CL				4.5	M				CS
2	60		6						4.5					CS
			8	As above, grades to gray 10YR 5/1 at 9.0 feet.										
3	60		11		CL				3.0	M				CS
			12	**LEAN CLAY (CL)**, plastic, gray 10YR 5/1, very stiff, (Glacial Till).										
4	60		16	**SILT (ML)**, not plastic, gray 10YR 5/1, (Fluvial).	ML				3.0	M				CS
			18	**LEAN CLAY (CL)**, plastic, gray 10YR 5/1, very stiff, (Glacial Till).	CL					M				
5	60		21						3.0					CS
			22	As above, very stiff.										

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

Signature: [signature]

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-129** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
6	60		26, 27, 28, 29, 30	**LEAN CLAY (CL)**, plastic, gray 10YR 5/1, stiff, (Glacial Till).	CL				0.5					CS
7	30		31, 32, 33, 34	As above, stiff.	CL				0.5	M				CS
8	42		35, 36, 37, 38, 39	As above, stiff.					1.5	M				CS
9	48		40, 41, 42, 43, 44	As above.					1.5	M				CS
10	60		45, 46, 47, 48, 49	As above.					1.5	M				CS
11	60		50, 51, 52, 53, 54	As above.					1.0	M				CS
12	60		55, 56, 57, 58, 59	As above, very stiff.					1.5	M				CS
13	60		60, 61, 62, 63, 64	As above.	CL				2.5	M				CS
14	36		65, 66						2.0	M				CS

Boring Number **B-129** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).	CL									
			68											
			69											
			70											
15	60		71	As above.					2.0	M				CS
			72											
			73											
			74											
			75											
16	60		76	As above.	CL				3.0	M				CS
			77											
			78											
			79											
			80											
17	60		81	As above, hard.					4.5	M				CS
			82											
			83											
			84	As above.										
18	60		85						4.0	M				CS
			86											
			87											
			88											
			89											
			90											
19	60		91	As above.	CL				3.5	M				CS
			92											
			93											
			94											
			95											
20	48		96	As above, stiff.					3.0	M				CS
			97											
			98											
			99											
			100											
21	24		101	As above.					2.0	M				CS
			102											
			103											
			104	As above.										
22	36		105						1.5	M				CS
			106											
			107											
			108											

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-129** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			109	**LEAN CLAY (CL)**, plastic, dark gray 10YR 4/1, very stiff, (Glacial Till).										
23	60		110–111		CL				3.5					CS
			112–113	As above, hard.										
			114											
24	60		115–116						4.5					CS
			117											
			118–119	As above, trace gravel, very stiff.										
25	60		120–121		CL				4.0	M				CS
			122–123											
			124											
26	60		125–126	As above, hard.					4.5					CS
			127–128											
			129											
27	48		130–131						4.5					CS
			132–133	As above, hard, 2" sand seam at 125.5 feet.										
			134											
28	60		135–136						3.0					CS
			137–138	**SILTY SAND (SM)**, non-plastic, fine to medium grained, gray 10YR 5/1, (Outwash).	SM					W				
			139–140	Lean clay (CL) lenses at approximately 2 foot intervals.										
29	48		141–142											CS
			143–144											
30	60		145–146						3.5					CS
			147–148	As above, fine to coarse grained, with 3" silt seams throughout.										
			149–150	**LEAN CLAY (CL)**, plastic, gray	CL ↓					M				

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-129** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
				10YR 5/1, very stiff, (Glacial Till).					4.0					
				End of boring at 150.0 feet.										

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		B-130

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Vince Bennett	5/7/96	5/13/96	4" Geobarrel

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	784.6 Feet MSL	4.0 Inches

Boring Location
State Plane N, E
NE 1/4 of SW 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
5745.00 ☒ N 4678.00 ☒ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	48		1	**TOPSOIL**, black.										
			2	**LEAN CLAY WITH GRAVEL (CL)**, grades to LEAN CLAY, plastic, brownish yellow 10YR 6/4, hard, (Glacial Till).	CL				4.5	M				CS
			3											
			4											
			5											
2	60		6	As above.					4.5	M				CS
			7											
			8											
			9											
3	18		10	As above.					4.5	M				CS
			11											
			12											
			13											
			14											
4	24		15	As above, but color to gray 10YR 5/1, very stiff.					2.5	M				CS
			16											
			17											
			18											
			19											
5	60		20	As above.					3.0	M				CS
			21											
			22											
			23											
			24											
			25											

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

Signature: Thomas E. Kiel

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-130** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
6	60		26	As above.					2.0	M				CS
			27											
			28											
			29											
			30											
7	60		31	As above, but stiff.					1.0	M				CS
			32											
			33											
			34											
8	60		35	As above.					1.0	M				CS
			36											
			37											
			38											
			39											
9	60		40											
			41	As above, very stiff.					2.5	M				CS
			42											
			43											
			44											
10	60		45											
			46	As above, stiff.					1.0	M				CS
			47	1 foot silt seam at 47.0 feet.	ML					W				
			48		CL									
			49											
11	60		50											
			51	As above.					1.5	M				CS
			52											
			53											
			54											
12	60		55											
			56	As above.					1.0	M				CS
			57											
			58											
			59											
13	60		60											
			61	As above, very stiff.					3.0	M				CS
			62											
			63											
			64											
14	18		65											
			66						3.0	M				CS

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-130**

Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67	As above.										
			68											
			69	Drilled through a rock at 68.0 to 70.0 feet.										
15	60		70											
			71	As above.					4.0	M				CS
			72											
			73											
			74											
16	60		75											
			76											
			77	As above, brown clay from 79.5 to 80.0 feet.					3.75	M				CS
			78											
			79											
17	24		80											
			81	As above, but stiff.					1.0	M				CS
			82											
			83											
			84											
18	24		85											
			86											
			87	As above, but very stiff.					3.0	M				CS
			88											
			89											
19	60		90											
			91	As above, but hard.					4.5	M				CS
			92											
			93											
			94											
20	60		95											
			96	As above.					4.5	M				CS
			97											
			98											
			99											
21	60		100											
			101	As above.					4.5	M				CS
			102											
			103											
			104											
	60		105											
			106	As above.					4.5	M				CS
			107											
			108											

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-130** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
23	60		109–114	As above.					4.5	M				CS
24	60		115–119	**SILTY SAND (SM)**, fine, trace gravel, gray 10YR 5/1, loose, (Outwash).	SM					W				CS
25	60		120–124	**LEAN CLAY (CL)**, plastic, brown 10YR 4/2, very stiff, (Glacial Till).	CL				3.5	M				CS
26	24		125–129	**SILT (ML)**, brown 10YR 4/2, stiff, (Fluvial).	ML				1.5	W				CS
27	48		130–133	As above.					3.5	W				CS
			134–135	1 foot clay seam at 134.0 feet.										
28	30		136–141	As above.	ML				4.5	W				CS
29	36		142–143	**LEAN CLAY (CL)**, plastic, brown 10YR 4/2, very stiff, (Glacial Till).					4.0					CS

End of boring at 143.0 feet.

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State of Wisconsin
Department of Natural Resources

Route To:
- [x] Solid Waste
- [ ] Emergency Response
- [ ] Wastewater
- [ ] Haz. Waste
- [ ] Underground Tanks
- [ ] Water Resources
- [ ] Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name: EPI 2655.27	License/Permit/Monitoring Number	Boring Number: B-132	
Boring Drilled By (Firm name and name of crew chief): Mateco Drilling, Crew Chief: Vince Bennett	Date Drilling Started: 5/3/96	Date Drilling Completed: 5/3/96	Drilling Method: 4" Geobarrel
DNR Facility Well No. / WI Unique Well No. / Common Well Name	Final Static Water Level: Feet MSL	Surface Elevation: 781.6 Feet MSL	Borehole Diameter: 4.0 Inches
Boring Location: State Plane 5064.30 N, 5052.10 E; NW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E	Lat ° ' " Long ° ' "	Local Grid Location (If applicable): 5064.3 Feet [x] N [ ] S; 5052.1 Feet [x] E [ ] W	
County: Waukesha	DNR County Code: 68	Civil Town/City/ or Village: Muskego	

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	60		1	TOPSOIL.										
			2	LEAN CLAY (CL), trace gravel, plastic, yellowish brown 10YR 5/4, very stiff, (Glacial Till).	CL				3.5	M				CS
			3											
			4											
			5											
2	60		6						4.5	M				CS
			7	As above, color to gray 10YR 5/1, hard.										
			8											
			9											
			10											
3	48		11						0.5	M				CS
			12	As above, soft.										
			13											
			14											
			15											
4	48		16						2.5	M				CS
			17	As above, very stiff.										
			18											
			19											
			20											
5	24		21	As above, soft.					0.5	W				CS
			22											
			23											
			24											
			25											

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

Signature: Thomas E Kiel

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-132** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
6	60		26–27	As above, stiff.					2.0	M				CS
7	60		30–31	As above.					1.5	M				CS
8	60		35–36	As above.					1.25	M				CS
9	48		40–41	As above.					1.5	M				CS
10	60		45–46	As above, very stiff.					2.5	M				CS
11	60		50–51	As above.					2.0	M				CS
12	60		55–56	As above.					3.0	M				CS
13	60		60–61	As above.					2.5	M				CS
14	60		65–66	As above.					3.0	M				CS

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Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-132**

Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67											
			68											
			69											
15	60		70											
			71	As above, hard.					4.5	M				CS
			72											
			73											
			74											
16	60		75	As above, very stiff.										
			76						3.75	M				CS
			77											
			78											
			79											
17	60		80											
			81	As above, hard.					4.0	M				CS
			82											
			83											
			84											
18	60		85											
			86	As above, very stiff.					3.0	M				CS
			87											
			88											
			89											
19	48		90											
			91	As above, color to dark gray 10YR 4/1.					3.5	M				CS
			92											
			93											
			94											
20	60		95											
			96	As above, hard, color to gray 10YR 5/1.					4.5	M				CS
			97											
			98											
			99											
21	60		100											
			101	As above, color to dark gray 10YR 4/1.					4.5	M				CS
			102											
			103											
			104											
	60		105	As above.										
			106						4.5	M				CS
			107											
			108											

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **B-132** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			109											
23	60		110	As above, color to brown 10YR 5/3.					4.5	M				CS
			111											
			112											
			113											
			114											
24	48		115	As above, very stiff.					4.0	M				CS
			116											
			117											
			118											
			119											
25	36		120	As above.					3.5	M				CS
			121											
			122											
			123											
			124											
26	60		125	As above.					3.0	M				CS
			126											
			127											
			128											
			129											
27	56		130	As above.					3.5	M				CS
			131											
			132											
			133											
			134	1 foot sand seam at 133.0 feet, loose.	SP					W				
			135		CL									
28	60		136	As above, color to gray 10YR 5/1, hard.					4.0	M				CS
			137											
			138	1 foot sand seam at 137.0 feet.	SP									
			139		CL									
			140											
29	60		141	As above.					4.0					CS
			142											
			143											
			144											
			145	End of boring at 145.0 feet.										

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	EPI 2655.27
License/Permit/Monitoring Number	
Boring Number	B-134
Boring Drilled By (Firm name and name of crew chief)	Mateco Drilling, Crew Chief: Vince Bennett
Date Drilling Started	5/2/96
Date Drilling Completed	5/2/96
Drilling Method	4" Geobarrel
DNR Facility Well No.	
WI Unique Well No.	
Common Well Name	
Final Static Water Level	Feet MSL
Surface Elevation	790.5 Feet MSL
Borehole Diameter	4.0 Inches
Boring Location State Plane	5031.10 N, 6117.90 E
Lat	° ' "
Long	° ' "
Local Grid Location (If applicable)	5031.1 ☒ N ☐ S Feet; 6117.9 ☒ E ☐ W Feet
NW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E	
County	Waukesha
DNR County Code	68
Civil Town/City/ or Village	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	48		1–5	**TOPSOIL**, 0-18", trace gravel, dark brown.	CL				2.0	W M				CS
2	60		5–10	**LEAN CLAY (CL)**, trace gravel, plastic, yellowish brown 10YR 5/4, very stiff, (Glacial Till).					4.0	M				CS
3	60		10–15	As above, color change to gray 10YR 5/1.					2.5	M				CS
4	60		15–20	As above, medium stiff.					1.0	M				CS
5	60		20–25	As above, stiff.					1.5	M				CS

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

Signature: [signature]

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-134** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
6	60		26	As above.					1.5	M				CS
			27											
			28											
			29											
			30											
7	56		31	As above.					1.5	M				CS
			32											
			33											
			34											
8	60		35	As above.					1.75	M				CS
			36											
			37											
			38											
			39											
9	60		40	As above.					1.5	M				CS
			41											
			42											
			43											
			44											
10	36		45	As above, soft.					0.5	M				CS
			46											
			47											
			48											
			49											
11	60		50	As above, stiff.					2.0	M				CS
			51											
			52											
			53											
			54											
12	60		55	As above.					1.5	M				CS
			56											
			57											
			58											
			59											
13	60		60	As above, very stiff.					2.5	M				CS
			61											
			62											
			63											
			64											
14	36		65	As above, soft.					0.5	M				CS
			66											

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-134**

Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67											
			68											
			69											
15	60		70	As above, very stiff.					2.5	M				CS
			71											
			72											
			73											
			74											
16	60		75	As above.					2.75	M				CS
			76											
			77											
			78											
			79											
17	60		80	As above, hard.					4.5	M				CS
			81											
			82											
			83											
			84											
18	60		85	As above, very stiff.					4.0	M				CS
			86											
			87											
			88											
			89											
19	60		90	As above.					3.0	M				CS
			91											
			92											
			93											
			94											
20	60		95	As above.					3.0	M				CS
			96											
			97											
			98											
			99											
21	60		100	As above.					3.5	M				CS
			101											
			102											
			103											
			104											
	60		105	As above.					4.0	M				CS
			106											
			107											
			108											

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A
7-91

Boring Number **B-134**

Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			109											
23	60		110	As above.										
			111											
			112						2.5	M				CS
			113											
			114											
24	48		115	As above.										
			116											
			117						2.0	M				CS
			118											
			119											
25	60		120	As above.										
			121											
			122						2.5	M				CS
			123											
			124											
26	60		125											
			126											
			127	As above, gravelly sand seam at 126.0 to 126.5 feet.					4.0	M				CS
			128											
			129											
27	60		130	As above, hard.										
			131											
			132						4.5	M				CS
			133											
			134	As above.										
28	60		135											
			136											
			137						4.5	M				CS
			138											
			139	As above.										
29	60		140											
			141											
			142						4.5	M				CS
			143											
			144											
30	60		145	As above.										
			146											
			147						4.5	M				CS
			148											
			149	**POORLY GRADED SAND (SP),** fine grained, gray 10YR 5/1.	SP				W					
			150											

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **B-134** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
S1			151						4.5	W				CS
			152	1 foot hard clay at 151.0 feet.	CL									
			153											
			154											
			155											
S2			156						4.0	W				CS
			157											
			158											
			159	2 feet very stiff clay at 158.0 feet.										
			160	End of boring at 160.0 feet.										

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		B-136

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Vince Bennett	4/15/96	4/18/96	4" Geobarrel

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	797.8 Feet MSL	4.0 Inches

Boring Location
State Plane 5337.00 N, 6443.00 E
NE 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
5337.00 ☒ N 6443.00 ☒ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	18	6	1	LEAN CLAY (CL), trace of gravel, plastic, yellowish brown 10YR 5/4, medium stiff, (Glacial Till).	CL				NR	M				SS
2	18	18	2–3						NR	M				SS
3	18	6	4–5						NR	M				SS
4	48		6–9	As above, color grading to gray 10YR 5/1 by 10.0 feet, stiff.					1.5	M				CS
5	54		10–14	As above.					1.5	M				CS
6	60		15–19	As above.					1.0	M				CS
7	54		20–25	As above, little silt.					1.5	M				CS

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

Signature [signature]

Firm RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

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Boring Number **B-136** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
8	54		26 27 28 29 30	As above.					1.0	M				CS
9	54		31 32 33 34	As above.					2.0	M				CS
10	60		35 36 37 38 39	As above.					2.0	M				CS
11	54		40 41 42 43 44	As above.					2.0	M				CS
12	54		45 46 47 48 49	As above.					1.5	M				CS
13	60		50 51 52 53 54	As above, few gravel.					2.0	M				CS
14	60		55 56 57 58 59	As above.					2.0	M				CS
15	60		60 61 62 63 64	As above.					2.0	M				CS
16	60		65 66						2.0	M				CS

Boring Number **B-136** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67	As above.										
			68											
			69											
17	60		70						3.5	M				CS
			71	As above, very stiff.										
			72											
			73											
			74											
18	60		75	As above, stiff, cobbles at 77.0 feet.					2.0	M				CS
			76											
			77											
			78											
			79											
19	60		80	As above, very stiff.					3.5	M				CS
			81											
			82											
			83											
			84											
20	30		85	As above, large cobbles at 85.5 feet.					3.0	M				CS
			86											
			87											
			88											
			89											
21	48		90	As above.					NR	M				CS
			91											
			92											
			93											
			94											
22	18		95	As above, stiff.					2.0	M				CS
			96											
			97											
			98											
			99											
23	48		100	As above, very stiff.					3.5	M				CS
			101											
			102											
			103											
			104											
24	60		105	As above, dark gray 10YR 4/1.					2.75	M				CS
			106											
			107											
			108											

Boring Number **B-136** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
25	54		109–110–111–112–113–114	As above.					2.25	M				CS
26	54		115–116–117–118–119	As above, stiff.					1.25	M				CS
27	60		120–121–122–123–124	As above, very stiff.					2.25	M				CS
28	48		125–126–127	As above, silty sand seams.					2.5	M				CS
			128–129	1/2 inch sand seam at 128 ft.										
29	60		130–131–132–133–134	As above, with 1/8 inch silty sand seams at 131 and 138 ft.					2.25	M				CS
30	60		135–136–137–138–139	As above, with a trace of fine gravel.					NR	M				CS
31	54		140–141–142–143–144	As above.					2.25	M				CS
32	30		145–146–147–148–149–150	As above, with a trace of coarse gravel, hit a rock at 145.0 feet, drilled through.					3.5	M				CS

Boring Number **B-136** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
33	48		151	As above, with a trace of fine gravel and occassional silt seams.					3.5	M				CS
			152											
			153											
			154											
34	42		155	As above.					3.5	M				CS
			156											
			157											
			158	**SILTY SAND (SM)**, poorly graded, fine, dark gray 10YR 4/1, (Outwash).	SM									
			159											
			160	End of boring at 160.0 feet.										

State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		MW-121C

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Steve Rempulski	5/3/96	5/7/96	4 1/4 ID HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-121C	Feet MSL	785.8 Feet MSL	9.0 Inches

Boring Location
State Plane N, E
SW 1/4 of SE 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
4380.30 ☒ N ☐ S Feet
6019.20 ☒ E ☐ W Feet

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	60		1	TOPSOIL, black.					0.75					CS
			2	SANDY SILT (ML), little clay, few gravel, slightly plastic, gray 10YR 5/1.	ML				4.5	M				
			3											
			4											
2	48		5											
			6						3.25	M				CS
			7											
			8	POORLY GRADED SAND (SP), coarse.	SP					W				
			9	LEAN CLAY (CL), few silt, plastic, gray 10YR 5/1, very stiff, (Glacial Till).	CL									
3	60		10											
			11						3.5	M				CS
			12											
			13											
			14											
4	60		15	As above.										
			16						3.0	M				CS
			17											
			18											
			19											
5	60		20											
			21						3.5	M				CS
			22	As above.										
			23											
			24											
			25											

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

Signature: [illegible]

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **MW-121C** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
6	60		26–27	As above, hard.					4.0	M				CS
7	60		30–31	As above, stiff.					1.75	M				CS
8	60		35–36	As above.					1.25	M				CS
9	60		40–41	As above.					1.25	M				CS
10	60		45–46	As above.					1.5	M				CS
11	60		50–51	As above.					1.5	M				CS
12	60		55–56	As above.					1.0	M				CS
13	60		60–61	As above.					1.25	M				CS
14	60		65–66	As above.					1.25	M				CS

Boring Number **MW-121C** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67											
			68											
			69											
15	60		70	As above.					2.0	M				CS
			71											
			72											
			73											
			74											
16	60		75	As above, very stiff.					3.0	M				CS
			76											
			77											
			78											
			79											
17	60		80	As above.					2.5	M				CS
			81											
			82											
			83											
			84											
18	60		85	As above, stiff.					1.75	M				CS
			86											
			87											
			88											
			89											
19	60		90	As above, very stiff.					2.0	M				CS
			91											
			92											
			93											
			94											
20	60		95	As above.					2.75	M				CS
			96											
			97											
			98											
			99											
21	12		100	As above.					2.0	M				CS
			101											
			102											
			103											
			104											
22	18		105	As above, occasional rock or gravel. Pushed rock.					2.0	M				CS
			106											
			107											
			108											

State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **MW-121C** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			109											
23	60		110–111	As above, rock in tip of sampler.					2.75	M				CS
			112–113											
			114											
24	60		115–116	As above.					3.0	M				CS
			117–118											
			119											
25	60		120–121	As above.					2.25	M				CS
			122–123											
			124											
26	60		125–126	As above.					2.75	M				CS
			127–128											
			129											
27	60		130–131						>4.5	M/W				CS
			132	As above, hard, 3" wet sand seam at 131.0 feet.										
			133–134											
28	60		135–136	As above.										CS
			137–138											
			139											
29	60		140–141	LEAN CLAY (CL), (Lab Class), some silt, few gravel, few sand, slightly plastic, gray 10YR 5/1, hard, (Glacial Till).	CL				>4.5	M/D	28	13	83.0	CS
			142–143											
			144	As above, hard.										
			145	End of boring at 145.0 feet.										

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State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		MW-125C

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Steve Rempulski	4/16/96	4/17/96	4 1/4 ID HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-125C	Feet MSL	779.3 Feet MSL	9.0 Inches

Boring Location
State Plane N, E
SE 1/4 of SW 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
4487.30 ☒ N 4344.40 ☒ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	42		1–5	TOPSOIL. LEAN CLAY (CL), trace of gravel, plastic, yellowish brown 10YR 5/4, stiff, 3 inch fine gravel seam at 2.0 feet, (Glacial Till).	CL				2.0	M				CS
2	60		6–9	As above, color change to gray 10YR 5/1 at 10 ft.					2.0	M				CS
3	60		10–14	As above, 2 inch silty sand and gravel seam at 13.5 ft.					2.0	M				CS
4	60		15–19	Same as above.					1.5	M				CS
5	60		20–25	Same as above.					1.5	M				CS

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

Signature: [signature]

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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.

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **MW-125C** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
6	60		26 27 28 29 30	Same as above, very stiff, 1 inch silt seam at 27.5 ft.					2.25	M				CS
7	60		31 32 33 34	Same as above.					2.0	M				CS
8	60		35 36 37 38 39	Same as above, stiff.					1.25	M				CS
9	54		40 41 42 43 44	As above, color change to gray 10YR 4/1.					1.75	M				CS
10	60		45 46 47 48 49	Same as above.					1.5	M				CS
11	60		50 51 52 53 54	Same as above.					1.5	M				CS
12	54		55 56 57 58 59	Same as above.					1.25	M				CS
13	60		60 61 62 63 64	Same as above.					2.0	M				CS
14	60		65 66						2.5	M				CS

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
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Boring Number **MW-125C** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			67	As above, very stiff.										
			68											
			69											
15	60		70						2.0	M				CS
			71	As above.										
			72											
			73											
			74											
16	60		75						1.0	M				CS
			76	As above, medium stiff.										
			77											
			78											
			79											
17	60		80						NR	M				CS
			81	As above, wet silt seam from 81.0 to 81.3 feet, gray fine sand seam from 82.5 to 82.8 feet.						W				
			82											
			83											
			84											
18	60		85						3.0	M				CS
			86	As above, very stiff.										
			87											
			88											
			89											
19	60		90	LEAN CLAY (CL), some silt, trace gravel, trace sand, plastic, gray 10YR 5/1, very stiff.	CL				2.25	M				CS
			91											
			92											
			93											
			94											
20	60		95						2.0	M				CS
			96	As above, 1 inch silt seam at 98 ft.										
			97											
			98											
			99											
21	54		100						NR	M/W				CS
			101	As above, 1 inch wet silt seams.										
			102											
			103											
			104											
22	12		105	As above.					NR	M				CS
			106											
			107											
			108											

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

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Boring Number **MW-125C** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			109											
23	60		110–111	**WELL GRADED GRAVEL (GW),** fine to coarse, (Outwash).	GW				3.2	M				CS
			112	1 inch silt seam 111 ft.	CL									
			113–114	**LEAN CLAY (CL),** some silt, plastic, brown 10YR 5/4, very stiff, (Glacial Till).										
24	60		115–116						1.7	M				CS
			117–118	As above, stiff.										
			119											
25	60		120–121	As above, few medium gravel, 1 inch silt seams at 121.0 and 121.5 feet, gray 10YR 5/1, few medium gravel.					2.0	M				CS
			122–123											
			124											
26	60		125–126	As above.					1.7	M				CS
			127–128											
			129											
27	60		130–131	As above, trace of fine to medium gravel.					1.5	M				CS
			132											
			133–134	**SILT (ML),** (Lab Class), little clay, trace gravel, trace sand, slightly plastic, gray 10YR 5/1, (Fluvial).	ML									
28	36		135–136							W	19	16	94.5	CS
			137–138	**LEAN CLAY (CL),** some silt, gray 10YR 5/1, very stiff.	CL				3.0	M				
				End of boring at 138 feet.										

State of Wisconsin
Department of Natural Resources

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

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EPI 2655.27		MW-131C

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mateco Drilling, Crew Chief: Steve Rempulski	4/22/96	4/22/96	4 1/4 ID HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-131C	Feet MSL	774.3 Feet MSL	9.0 Inches

Boring Location
State Plane N, E
NE 1/4 of SW 1/4 of Section 36 T 5 N,R 20E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
5696.20 ☒ N 4290.30 ☒ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Muskego

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
1	12		1–5	**ORGANIC SILT (OL),** non-plastic, black 10YR 2/1, wet to ~5 ft., roots.	OL				NR	W				CS
2	60		6–9	**LEAN CLAY (CL),** little silt, plastic, gray 10YR 5/1, soft.	CL				0.25	M				CS
			9–10	**POORLY GRADED SAND (SP),** fine, gray 10YR 5/1, (Fluvial).	SP					W				
3	48		10–13	**SILT (ML),** some clay, little sand, trace gravel, slightly plastic, gray 10YR 5/1, stiff, (Fluvial).	ML				2.0	M				CS
4	60		15–20	As above.					1.5	M				CS
5	60		20–22	**SILTY SAND (SM),** fine to medium grained, little clay, dark gray 10YR 4/1, (Fluvial).	SM CL				2.5	W				CS

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

Signature: Thomas E. Kozel

Firm: RMT
744 Heartland Trail, Madison Wisconsin
Tel: 608-831-4444, Fax: 608-831-3334

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement

Form 4400-122A 7-91

Boring Number **MW-131C** Use only as an attachment to Form 4400-122.

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
6	60		26–30	**LEAN CLAY (CL)**, trace of gravel, plastic, gray 10YR 5/1, stiff.					1.25	M				CS
7	36		31–32	**SILTY SAND (SM)**, fine, dark gray 10YR 4/1, (Fluvial).	SM					W				CS
			33–35	**LEAN CLAY (CL)**, little silt, plastic, gray 10YR 5/1, stiff, (Glacial Till).	CL				1.75	M				
8	60		36–40	As above.					1.25	M				CS
9	60		41–45	As above, trace of gravel, medium stiff.					0.75					C
10	60		46–50	As above.					1.0					CS
11	60		51–55	As above.					1.0					CS
12	60		56–60	As above, stiff.					1.25					CS
13	60		61–65	As above.					1.25					CS
14	60		66						1.75					CS

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Department of Natural Resources

Soil Boring Log Information Supplement
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7-91

Boring Number **MW-131C** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
			67	As above.										
			68											
			69											
15	60		70											
			71	As above.					1.0	M				CS
			72											
			73											
			74											
16	60		75											
			76	As above.					1.25	M				CS
			77											
			78											
			79											
17	60		80											
			81	As above.					1.75	M				CS
			82											
			83											
			84											
18	60		85											
			86	As above, little gravel, very stiff.					3.5	W				CS
			87											
			88											
			89											
19	60		90											
			91	As above, dark gray 10YR 4/1.					3.25	M				CS
			92											
			93											
			94											
20	60		95											
			96						2.5	M				CS
			97											
			98	As above, trace of gravel.										
			99											
21	60		100											
			101	As above, light brown 10YR 5/3.					3.5	M				CS
			102											
			103											
			104											
22	60		105	As above, gray 10YR 5/4.										
			106						3.2	M				CS
			107											
			108											

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A
7-91

Boring Number **MW-131C** Use only as an attachment to Form 4400-122.

Sample Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	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	Comments
23	60		109–111	As above, hard.					4.0	M				CS
24	36		115–117	As above, stiff.					1.25	M				CS
			118–121	**WELL GRADED SAND (SW)**, (Lab Class), fine to coarse, few gravel, trace silt, trace clay, gray 10YR 5/1, (Outwash).	SW					W	--	NP	7.5	
25	48		120–121						1.25	W				CS
			123	As above.										
26			125–130	**LEAN CLAY (CL)**, little silt, plastic, gray 10YR 5/1, (Glacial Till).	CL				NR	W				CS
			130	End of boring at 130 ft.										

Soil Boring Abandonment Forms

State of Wisconsin
Department of Natural Resources

WELL/DRILHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report 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 this form 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 this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

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

(1) GENERAL INFORMATION

WI Unique Well No.	DNR Well ID No.	County
_ _ _ _ _		

Common Well Name B306 _____ Gov't Lot (If applicable) ☐ E ☐ W

___ 1/4 of ___ 1/4 of Sec._____; T._____ N; R._____

Grid Location
5513 ft. ☒ N. ☐ S., 406 1 ft. ☒ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☒

Lat. ____° ____'____.____" Long ____° ____'____.____" or

St. Plan 315,513 ft. N. 2,514,061 ft. E. S ☐ C ☐ N ☐ Zone

Reason for Abandonment	WI Unique Well No. of Replacement Well
Boring only	NA

(2) FACILITY/OWNER INFORMATION

Facility Name
Veolia Emerald Park Landfill Expansion

Facility ID	License/Permit/Monitoring No.
268244130	3290

Street Address of Well
W124 S10629 South 124th Street

City, Village, or Town
Muskego

Present Well Owner	Original Owner
Veolia Emerald Park Landfill	Veolia Emerald Park Landfill

Street Address or Route of Owner
W124 S10629 South 124th Street

City, State, Zip Code
Muskego, WI 53150

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date 2/19/2007

☐ Monitoring Well
☐ Water Well
☒ Borehole/Drillhole

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 (ft.) _____ (From ground surface)
Casing Diameter (in.) _____
Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 4.0

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown

If Yes, To What Depth? 98.0 Feet

Depth to Water (Feet) _____

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	☒ Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	☒ No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☒ Conductor Pipe-Pumped
☐ Screened & Poured ☐ Other (Explain) _____

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite - Sand Slurry (11 lb./gal. wt.)
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
☐ Granular Bentonite
☒ Bentonite – Cement Grout
☐ Bentonite – Sand Slurry

(5) Sealing Material Used	From (Ft.)	To (Ft.)	Sacks Sealant	(Circle One)	Mix Ratio or Mud Weight
50 lb bentonite granules	Surface	7.0	1		
50 lb Quik Gel (slurry)	7.0	98.0	1		1 sack/50 gallons

(6) Comments: Geotechnical boring only.

(7) Name of Person or Firm Doing Sealing Work	Date of Abandonment
STS Consultants/RMT, Inc.	2/20/2007

Signature of Person Doing Work	Date Signed
[illegible] / RMT	12/11/2008

Street or Route	Telephone Number
1035 Kepler Dr.	(920) 468-1978

City, State, Zip Code
Green Bay, WI 54311

FOR DNR OR COUNTY USE ONLY

Date Received	Noted By

Comments

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report 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 this form 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 this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

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

(1) GENERAL INFORMATION

WI Unique Well No.:
DNR Well ID No.:
County: Waukesha

Common Well Name: B307 Gov't Lot (if applicable):

Grid Location: ____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W

5119.7 ft. ☒ N. ☐ S., 4057.6 ft. ☒ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☒

Lat ___° ___' ___" Long ___° ___' ___" or

State Plane 315,120 ft. N. 2,514,058 ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Boring only

WI Unique Well No. of Replacement Well: NA

(2) FACILITY /OWNER INFORMATION

Facility Name: Veolia Emerald Park Landfill Expansion

Facility ID: 268244130

License/Permit/Monitoring No.: 3290

Street Address of Well: W124 S10629 South 124th Street

City, Village, or Town: Muskego

Present Well Owner: Veolia Emerald Park Landfill

Original Owner: Veolia Emerald Park Landfill

Street Address or Route of Owner: W124 S10629 South 124th Street

City, State, Zip Code: Muskego, WI 53150

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 2/14/2007

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

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 (ft) (From ground surface): _____ Casing Diameter (in.): _____
Casing Depth (ft.): _____

Lower Drillhole Diameter (in.): 4.0

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown

If Yes, To What Depth? 98.0 Feet

Depth to Water (Feet): _____

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	☒ Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	☒ No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
☐ Granular Bentonite
☒ Bentonite-Cement Grout
☐ Bentonite - Sand Slurry

(5) Sealing Material Used	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
50 lb bentonite granules	Surface	7.0	1	
50 lb Quik Gel (slurry)	7.0	98.0	1	1 sack/50 gallons

(6) Comments: Geotechnical boring only.

(7) Name of Person or Firm Doing Sealing Work: STS Consultants/RMT, Inc.

Date of Abandonment: 2/14/07

Signature of Person Doing Work: [illegible] /RMT

Date Signed: 3/30/2007

Street or Route: 1035 Kepler Dr.

Telephone Number: (920) 468-1978

City, State, Zip Code: Green Bay, WI 54311

FOR DNR OR COUNTY USE ONLY

Date Received:

Noted By:

Comments:

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No.:
DNR Well ID No.:
County: Waukesha

Common Well Name: B307A Gov't Lot (if applicable):

Grid Location: ___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☒

Lat ___ ° ___ ' ___ " Long ___ ° ___ ' ___ " or

State Plane ___ ft. N. ___ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Boring only
WI Unique Well No. of Replacement Well: NA

(2) FACILITY /OWNER INFORMATION

Facility Name: Veolia Emerald Park Landfill Expansion

Facility ID: 268244130
License/Permit/Monitoring No.: 3290

Street Address of Well: W124 S10629 South 124th Street

City, Village, or Town: Muskego

Present Well Owner: Veolia Emerald Park Landfill
Original Owner: Veolia Emerald Park Landfill

Street Address or Route of Owner: W124 S10629 South 124th Street

City, State, Zip Code: Muskego, WI 53150

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 2/14/2007

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

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 (ft) (From ground surface):
Casing Diameter (in.):
Casing Depth (ft.):

Lower Drillhole Diameter (in.): 4.0

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown

If Yes, To What Depth? 12.0 Feet

Depth to Water (Feet):

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	☒ Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	☒ No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
☒ Granular Bentonite
☐ Bentonite-Cement Grout
☐ Bentonite - Sand Slurry

(5) Sealing Material Used	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
50 lb bentonite granules	Surface	12.0	1.5	

(6) Comments: Geotechnical boring only.

(7) Name of Person or Firm Doing Sealing Work: STS Consultants/RMT, Inc.
Date of Abandonment: 2/14/07

Signature of Person Doing Work: Thomas E Kiel / RMT
Date Signed: 3/30/2007

Street or Route: 1035 Kepler Dr.
Telephone Number: (920) 468-1978

City, State, Zip Code: Green Bay, WI 54311

FOR DNR OR COUNTY USE ONLY

Date Received:
Noted By:
Comments:

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No. | DNR Well ID No. | County: Waukesha

Common Well Name: B308 Gov't Lot (if applicable): _____

Grid Location: ____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W

4702.4 ft. ☒ N. ☐ S., 4057.6 ft. ☒ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☒

Lat ___ ° ___ ' ___ " Long ___ ° ___ ' ___ " or

State Plane 314,702 ft. N. 2,514,058 ft. E. S ☐ C ☐ N ☐ Zone

Reason For Abandonment: Boring only

WI Unique Well No. of Replacement Well: NA

(2) FACILITY /OWNER INFORMATION

Facility Name: Veolia Emerald Park Landfill Expansion

Facility ID: 268244130 License/Permit/Monitoring No.: 3290

Street Address of Well: W124 S10629 South 124th Street

City, Village, or Town: Muskego

Present Well Owner: Veolia Emerald Park Landfill Original Owner: Veolia Emerald Park Landfill

Street Address or Route of Owner: W124 S10629 South 124th Street

City, State, Zip Code: Muskego, WI 53150

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 2/1/2007

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

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 (ft) (From ground surface) _____ Casing Diameter (in.) _____
Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 4.0

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown

If Yes, To What Depth? 106.0 Feet

Depth to Water (Feet) _____

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	☒ Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	☒ No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
☐ Granular Bentonite
☒ Bentonite-Cement Grout
☐ Bentonite - Sand Slurry

(5) Sealing Material Used	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
50 lb bentonite granules	Surface	7.0	1	
50 lb Quik Gel (slurry)	7.0	106.0	2	1 sack/50 gallons

(6) Comments: Geotechnical boring only.

(7) Name of Person or Firm Doing Sealing Work: STS Consultants/RMT, Inc. Date of Abandonment: 2/1/07

Signature of Person Doing Work: Thomas E Reed / RMT Date Signed: 3/30/2007

Street or Route: 1035 Kepler Dr. Telephone Number: (920) 468-1978

City, State, Zip Code: Green Bay, WI 54311

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5 2/2000 Page 1 of 2

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

(1) GENERAL INFORMATION

WI Unique Well No. | DNR Well ID No. | County: Waukesha

Common Well Name: B309 _____ Gov't Lot (if applicable)

____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W

Grid Location

4172.6 ft. ☒ N. ☐ S., 4090.2 ft. ☒ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☒

Lat ___ ° ___ ' ___ " Long ___ ° ___ ' ___ " or

State Plane 314,173 ft. N. 2,514,090 ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Boring only

WI Unique Well No. of Replacement Well: NA

(2) FACILITY /OWNER INFORMATION

Facility Name: Veolia Emerald Park Landfill Expansion

Facility ID: 268244130

License/Permit/Monitoring No.: 3290

Street Address of Well: W124 S10629 South 124th Street

City, Village, or Town: Muskego

Present Well Owner: Veolia Emerald Park Landfill

Original Owner: Veolia Emerald Park Landfill

Street Address or Route of Owner: W124 S10629 South 124th Street

City, State, Zip Code: Muskego, WI 53150

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 1/25/2007

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

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 (ft) (From ground surface) _____ Casing Diameter (in.) _____
Casing Depth (ft.) _____

Lower Drillhole Diameter (in.): 4.0

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown

If Yes, To What Depth? 106.0 Feet

Depth to Water (Feet) _____

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed? ☐ Yes ☐ No ☒ Not Applicable
Liner(s) Removed? ☐ Yes ☐ No ☒ Not Applicable
Screen Removed? ☐ Yes ☐ No ☒ Not Applicable
Casing Left in Place? ☐ Yes ☐ No

Was Casing Cut Off Below Surface? ☐ Yes ☐ No
Did Sealing Material Rise to Surface? ☒ Yes ☐ No
Did Material Settle After 24 Hours? ☐ Yes ☒ No
If Yes, Was Hole Retopped? ☐ Yes ☐ No

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

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
☐ Granular Bentonite
☒ Bentonite-Cement Grout
☐ Bentonite - Sand Slurry

(5) Sealing Material Used	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
50 lb bentonite granules	Surface	7.0	1	
50 lb Quik Gel (slurry)	7.0	106.0	2	1 sack/50 gallons

(6) Comments: Geotechnical boring only.

(7) Name of Person or Firm Doing Sealing Work: STS Consultants/RMT, Inc.

Date of Abandonment: 1/25/07

Signature of Person Doing Work: Thomas E Kiel / RMT

Date Signed: 3/30/2007

Street or Route: 1035 Kepler Dr.

Telephone Number: (920) 468-1978

City, State, Zip Code: Green Bay, WI 54311

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Date Received | Noted By

Comments

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5 2/2000 Page 1 of 2

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

(1) GENERAL INFORMATION

WI Unique Well No. | DNR Well ID No. | County: Waukesha

Common Well Name: B310 Gov't Lot (if applicable)

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

Grid Location: 3885.1 ft. ☒ N. ☐ S., 4839.6 ft. ☒ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☒

Lat ___ ° ___ ' ___ " Long ___ ° ___ ' ___ " or

State Plane 313,885 ft. N. 2,514,840 ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Boring only

WI Unique Well No. of Replacement Well: NA

(2) FACILITY /OWNER INFORMATION

Facility Name: Veolia Emerald Park Landfill Expansion

Facility ID: 268244130

License/Permit/Monitoring No.: 3290

Street Address of Well: W124 S10629 South 124th Street

City, Village, or Town: Muskego

Present Well Owner: Veolia Emerald Park Landfill

Original Owner: Veolia Emerald Park Landfill

Street Address or Route of Owner: W124 S10629 South 124th Street

City, State, Zip Code: Muskego, WI 53150

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 1/22/2007

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

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 (ft) (From ground surface) ___ Casing Diameter (in.) ___
Casing Depth (ft.) ___

Lower Drillhole Diameter (in.): 4.0

Was Well Annular Space Grouted? ☒ Yes ☐ No ☐ Unknown

If Yes, To What Depth? 106.0 Feet

Depth to Water (Feet) ___

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	☒ Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	☒ No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
☐ Granular Bentonite
☒ Bentonite-Cement Grout
☐ Bentonite - Sand Slurry

(5) Sealing Material Used	From (Ft.)	To (Ft.)	Sacks Sealant	Mix Ratio or Mud Weight
50 lb bentonite granules	Surface	7.0	2	
50 lb Quik Gel (slurry)	7.0	106.0	2	1 sack/50 gallons

(6) Comments: Geotechnical boring only.

(7) Name of Person or Firm Doing Sealing Work: STS Consultants/RMT, Inc.

Date of Abandonment: 1/22/07

Signature of Person Doing Work: Thomas E Kiel / RMT

Date Signed: 3/30/2007

Street or Route: 1035 Kepler Dr.

Telephone Number: (920) 468-1978

City, State, Zip Code: Green Bay, WI 54311

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Photographs

RMT

Photographic Log

Client Name	Site Location	Project No.
Veolia Environmental Services	Emerald Park Landfill - Southwest Expansion	20655.22

Photo No.	Date
1	

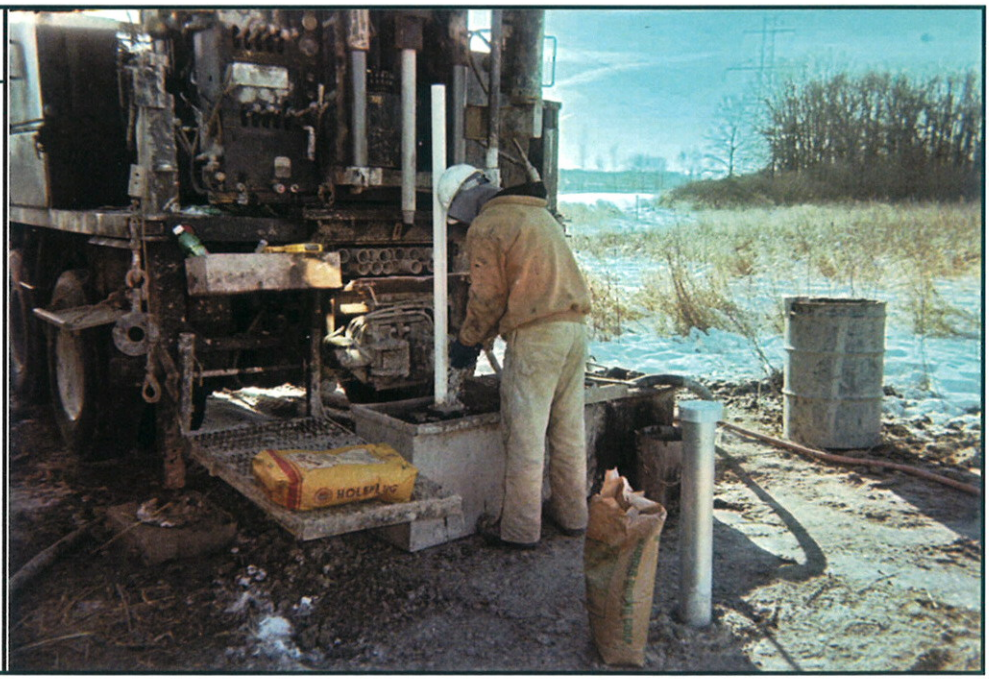
Description

Completed well nest MW-302.

Photo No.	Date
2	

Description

Placement of well seal.



RMT

Photographic Log

Client Name	Site Location	Project No.
Veolia Environmental Services	Emerald Park Landfill - Southwest Expansion	20655.22

Photo No.	Date
3	

Description

Mixing annular space grout.

Photo No.	Date
4	

Description

Addition of bentonite slurry during rotary drilling.

RMT

Photographic Log

Client Name	Site Location	Project No.
Veolia Environmental Services	Emerald Park Landfill - Southwest Expansion	20655.22

Photo No.	Date
5	

Description

Placement of screen pack at nest MW-304.

Photo No.	Date
6	

Description

Bent Shelby tube from B-304.

Monitoring Well Diagrams for Newly Installed Wells

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW301A
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PI955 / DNR Well Number: 184
Facility ID: 268244130	St. Plane 315,872 ft. N, 2,513,562 ft. E. S/C/N	Date Well Installed: 02/07/2007
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) Luke Cravillion STS
Distance from Waste/Source: 200 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number:	

A. Protective pipe, top elevation 777.45 ft. MSL

B. Well casing, top elevation 776.97 ft. MSL

C. Land surface elevation 775.0 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):

E. Bentonite seal, top 775.0 ft. MSL or 0.0 ft.

F. Fine sand, top 771.5 ft. MSL or 3.5 ft.

G. Filter pack, top 771.0 ft. MSL or 4.0 ft.

H. Screen joint, top 770.0 ft. MSL or 5.0 ft.

I. Well bottom 760.0 ft. MSL or 15.0 ft.

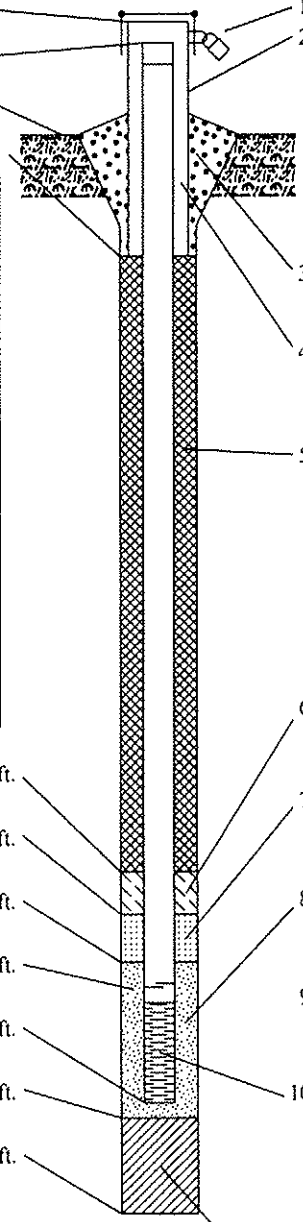
J. Filter pack, bottom 759.5 ft. MSL or 15.5 ft.

K. Borehole, bottom 759.5 ft. MSL or 15.5 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Steel ☐ 0 4
   Aluminum 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
   ____ Other ☒ __
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. ____ Ft^3 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. Badger 40/70 __
   b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
   a. Badger 45/55 __
   b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
   Flush threaded PVC schedule 80 ☐ 2 4
   ____ Other ☐ __
10. Screen material: PVC __
   a. Screen Type: Factory cut ☒ 1 1
   Continuous slot ☐ 0 1
   ____ Other ☐ __
   b. Manufacturer Buffalo
   c. Slot size: 0.010 in.
   d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4
   ____ Other ☐ __

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

Signature: [signature] | Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 | Tel: (608) 831-4444 Fax: (608) 831-3334

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.

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State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW301B
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PI954 / DNR Well Number: 186
Facility ID: 268244130	St. Plane 315,871 ft. N, 2,513,556 ft. E. S/C/N	Date Well Installed: 02/08/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) Luke Cravillion STS
Distance from Waste/Source: 200 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number:	

A. Protective pipe, top elevation 777.59 ft. MSL

B. Well casing, top elevation 777.03 ft. MSL

C. Land surface elevation 775.3 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):

E. Bentonite seal, top ____ ft. MSL or ____ ft.

F. Fine sand, top 711.6 ft. MSL or 63.7 ft.

G. Filter pack, top 709.6 ft. MSL or 65.7 ft.

H. Screen joint, top 707.6 ft. MSL or 67.7 ft.

I. Well bottom 702.6 ft. MSL or 72.7 ft.

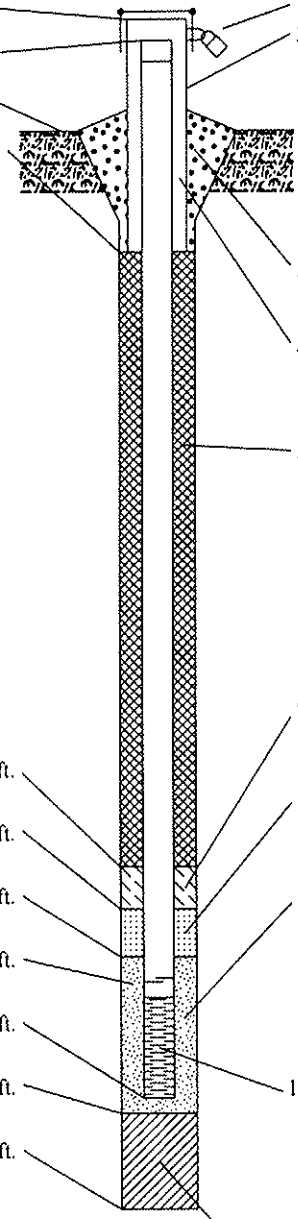
J. Filter pack, bottom 700.5 ft. MSL or 74.8 ft.

K. Borehole, bottom 700.5 ft. MSL or 74.8 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: ____ in.
   b. Length: ____ 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
   ____ Other ☒ __
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
   b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
   c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
   d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. ____ Ft^3 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. Badger 40/70 __
   b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
   a. Badger 45/55 __
   b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
   Flush threaded PVC schedule 80 ☐ 2 4
   ____ Other ☐ __
10. Screen material: PVC __
   a. Screen Type: Factory cut ☒ 1 1
   Continuous slot ☐ 0 1
   ____ Other ☐ __
   b. Manufacturer Buffalo
   c. Slot size: 0.010 in.
   d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4
   ____ Other ☐ __

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

Signature: Thomas E Kool

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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.

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State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW301C
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis. Unique Well No.: PI953 / DNR Well Number: 188
Facility ID: 268244130	St. Plane 315,872 ft. N, 2,513,567 ft. E. S/C/N	Date Well Installed: 02/01/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ___ 1/4 of ___ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) John Carlson, STS
Distance from Waste/Source: 200 ft. Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 777.43 ft. MSL

B. Well casing, top elevation 776.86 ft. MSL

C. Land surface elevation 775.1 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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 Natural clay

17. Source of water (attach analysis, if required): City of Green Bay

E. Bentonite seal, top 666.1 ft. MSL or 109.0 ft.

F. Fine sand, top 658.1 ft. MSL or 117.0 ft.

G. Filter pack, top 656.1 ft. MSL or 119.0 ft.

H. Screen joint, top 654.1 ft. MSL or 121.0 ft.

I. Well bottom 649.1 ft. MSL or 126.0 ft.

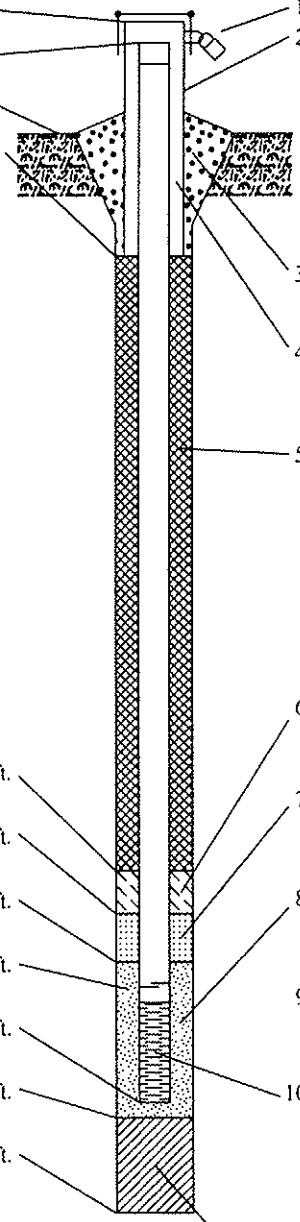
J. Filter pack, bottom 645.6 ft. MSL or 129.5 ft.

K. Borehole, bottom 645.6 ft. MSL or 129.5 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Aluminum — 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 ____ Other ☒ __
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
   b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
   c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
   d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. ____ Ft^3 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. Badger 40/70 __
   b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
   a. Badger 45/55 __
   b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3 Flush threaded PVC schedule 80 ☒ 2 4 ____ Other ☐ __
10. Screen material: PVC __
    a. Screen Type: Factory cut ☒ 1 1 Continuous slot ☐ 0 1 ____ Other ☐ __
    b. Manufacturer Buffalo
    c. Slot size: 0.010 in.
    d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4 ____ Other ☐ __

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

Signature: Thomas E Kiel

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717

Tel: (608) 831-4444
Fax: (608) 831-3334

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State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW302A
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PI951 / DNR Well Number: 190
Facility ID: 268244130	St. Plane 314,741 ft. N, 2,513,585 ft. E. S/C/N	Date Well Installed: 01/24/2007
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): John Carlson, STS
Distance from Waste/Source: 200 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 779.81 ft. MSL

B. Well casing, top elevation 779.14 ft. MSL

C. Land surface elevation 777.3 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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, if required): ____

E. Bentonite seal, top 777.3 ft. MSL or 0.0 ft.

F. Fine sand, top 774.3 ft. MSL or 3.0 ft.

G. Filter pack, top 773.8 ft. MSL or 3.5 ft.

H. Screen joint, top 773.3 ft. MSL or 4.0 ft.

I. Well bottom 763.3 ft. MSL or 14.0 ft.

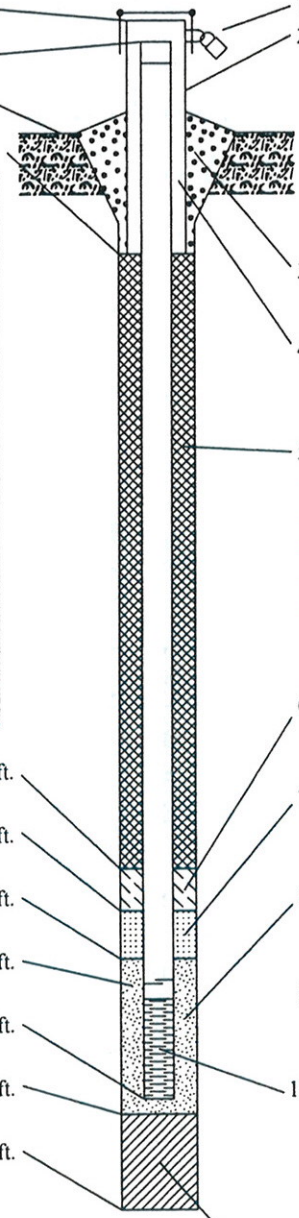
J. Filter pack, bottom 762.8 ft. MSL or 14.5 ft.

K. Borehole, bottom 762.8 ft. MSL or 14.5 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: 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 ____ Other ☒ __

5. Annular space seal: a. Granular/Chipped 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. ____ Ft^3 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 chips ☒ 32
c. ____ Other ☐ __

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger 40/70 __
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 45/55 __
b. Volume added ____ ft^3

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 Buffalo
c. Slot size: 0.010 in.
d. Slotted length: 10.0 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: Johnny E. Keep

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW302B
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PI952 / DNR Well Number: 192
Facility ID: 268244130	St. Plane 314,739 ft. N, 2,513,589 ft. E. S/C/N	Date Well Installed: 01/25/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) John Carlson, STS
Distance from Waste/Source: 200 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number:	

A. Protective pipe, top elevation 779.68 ft. MSL

B. Well casing, top elevation 778.98 ft. MSL

C. Land surface elevation 777.3 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):
City of Green Bay

E. Bentonite seal, top 717.3 ft. MSL or 60.0 ft.

F. Fine sand, top 708.3 ft. MSL or 69.0 ft.

G. Filter pack, top 706.3 ft. MSL or 71.0 ft.

H. Screen joint, top 704.3 ft. MSL or 73.0 ft.

I. Well bottom 699.3 ft. MSL or 78.0 ft.

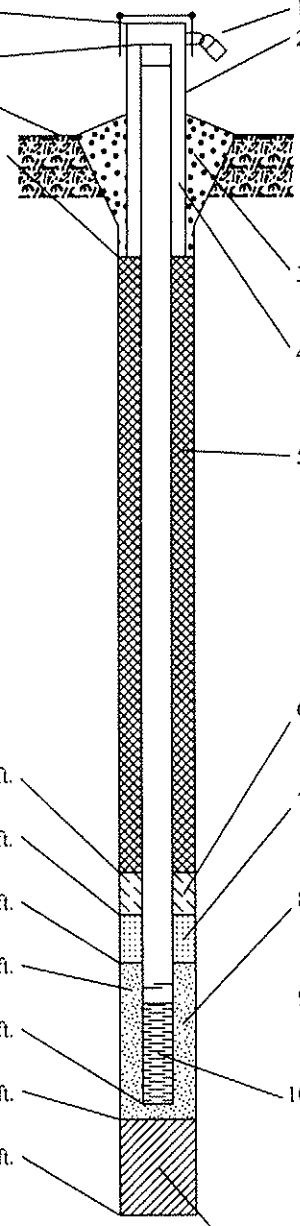
J. Filter pack, bottom 696.3 ft. MSL or 81.0 ft.

K. Borehole, bottom 696.3 ft. MSL or 81.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Aluminum — 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, Other ☒ __
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
   b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
   c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
   d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. ____ Ft^3 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. Badger 40/70
   b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
   a. Badger 45/55
   b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3, Flush threaded PVC schedule 80 ☐ 2 4, Other ☐ __
10. Screen material: PVC
    a. Screen Type: Factory cut ☒ 1 1, Continuous slot ☐ 0 1, Other ☐ __
    b. Manufacturer Buffalo
    c. Slot size: 0.010 in.
    d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4, Other ☐ __

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

Signature	Firm	
Thomas E. Kiel	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-4444 Fax: (608) 831-3334

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.

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State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW302C
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PA420 / DNR Well Number: 194
Facility ID: 268244130	St. Plane 314,742 ft. N, 2,513,581 ft. E. S/C/N	Date Well Installed: 01/23/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) John Carlson STS
Distance from Waste/Source: 200 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number:	

A. Protective pipe, top elevation 779.95 ft. MSL

B. Well casing, top elevation 779.34 ft. MSL

C. Land surface elevation 777.3 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):
____

E. Bentonite seal, top 662.3 ft. MSL or 115.0 ft.

F. Fine sand, top 651.8 ft. MSL or 125.5 ft.

G. Filter pack, top 649.8 ft. MSL or 127.5 ft.

H. Screen joint, top 647.3 ft. MSL or 130.0 ft.

I. Well bottom 642.3 ft. MSL or 135.0 ft.

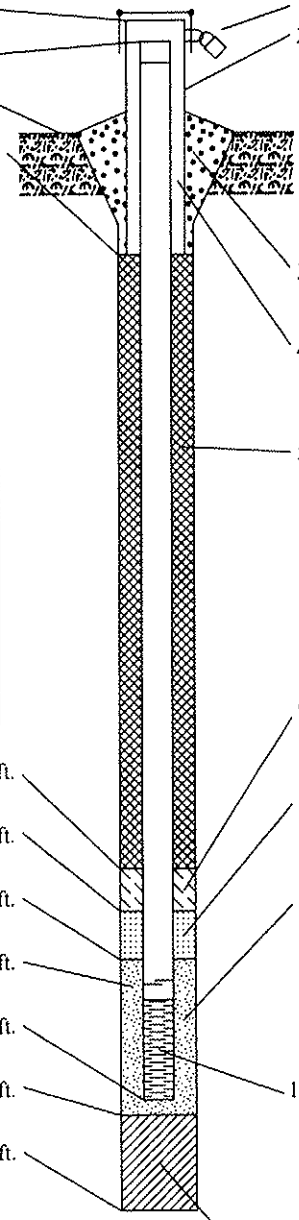
J. Filter pack, bottom 642.3 ft. MSL or 135.0 ft.

K. Borehole, bottom 640.3 ft. MSL or 137.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Steel ☐ 0 4
Aluminum 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
____ Other ☒ __
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 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. Badger 40/70 __
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 45/55 __
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3
Flush threaded PVC schedule 80 ☒ 2 4
____ Other ☐ __
10. Screen material: PVC __
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ __
b. Manufacturer Buffalo
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4
Natural cave-in Other ☒ __

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

Signature	Firm	
Thomas E. Kiel	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-4444 Fax: (608) 831-3334

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.

292

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW303A
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PA416 / DNR Well Number: 196
Facility ID: 268244130	St. Plane 313,334 ft. N, 2,513,898 ft. E. S/C/N	Date Well Installed: 01/19/2007
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) John Carlson STS
Distance from Waste/Source: 75 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number:	

A. Protective pipe, top elevation 780.00 ft. MSL

B. Well casing, top elevation 779.40 ft. MSL

C. Land surface elevation 777.5 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):

E. Bentonite seal, top 777.5 ft. MSL or 0.0 ft.

F. Fine sand, top 772.9 ft. MSL or 4.6 ft.

G. Filter pack, top 772.2 ft. MSL or 5.3 ft.

H. Screen joint, top 771.5 ft. MSL or 6.0 ft.

I. Well bottom 761.5 ft. MSL or 16.0 ft.

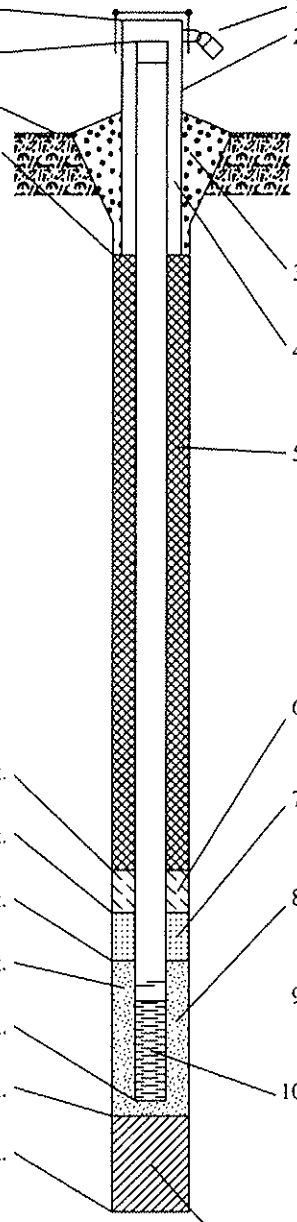
J. Filter pack, bottom 761.0 ft. MSL or 16.5 ft.

K. Borehole, bottom 761.0 ft. MSL or 16.5 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Aluminum 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 Other ☒ __
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. ____ Ft^3 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. Badger 40/70
   b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
   a. Badger 45/55
   b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 Flush threaded PVC schedule 80 ☐ 2 4 Other ☐ __
10. Screen material: PVC
    a. Screen Type: Factory cut ☒ 1 1 Continuous slot ☐ 0 1 Other ☐ __
    b. Manufacturer Buffalo
    c. Slot size: 0.010 in.
    d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4 Other ☐ __

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

Signature	Firm	
Thomas E. Kool	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-4444 Fax: (608) 831-3334

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.

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State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW303B
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PA417 / DNR Well Number: 198
Facility ID: 268244130	St. Plane 313,333 ft. N, 2,513,903 ft. E. S/C/N	Date Well Installed: 01/22/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): John Carlson, STS
Distance from Waste/Source: 75 ft. Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 779.96 ft. MSL

B. Well casing, top elevation 779.32 ft. MSL

C. Land surface elevation 777.5 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):
City of Green Bay

E. Bentonite seal, top 721.8 ft. MSL or 55.7 ft.

F. Fine sand, top 712.5 ft. MSL or 65.0 ft.

G. Filter pack, top 710.5 ft. MSL or 67.0 ft.

H. Screen joint, top 708.5 ft. MSL or 69.0 ft.

I. Well bottom 703.5 ft. MSL or 74.0 ft.

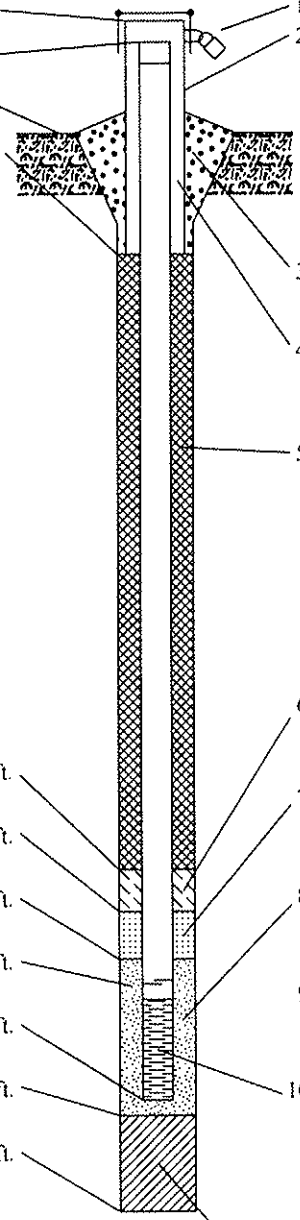
J. Filter pack, bottom 700.5 ft. MSL or 77.0 ft.

K. Borehole, bottom 700.5 ft. MSL or 77.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Steel ☐ 0 4
Aluminum 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
____ Other ☒ __

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 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. Badger 40/70 __
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 45/55 __
b. Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐ __

10. Screen material: PVC __
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ __
b. Manufacturer Buffalo
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☒ 1 4
____ Other ☐ __

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

Signature: Thomas E. Kroll

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717

Tel: (608) 831-4444
Fax: (608) 831-3334

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State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW303C
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PA415 / DNR Well Number: 200
Facility ID: 268244130	St. Plane 313,334 ft. N, 2,513,894 ft. E. S/C/N	Date Well Installed: 01/19/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) John Carlson, STS
Distance from Waste/Source: 75 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 780.05 ft. MSL

B. Well casing, top elevation 779.40 ft. MSL

C. Land surface elevation 777.5 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):

E. Bentonite seal, top 660.5 ft. MSL or 117.0 ft.

F. Fine sand, top 649.5 ft. MSL or 128.0 ft.

G. Filter pack, top 647.5 ft. MSL or 130.0 ft.

H. Screen joint, top 645.5 ft. MSL or 132.0 ft.

I. Well bottom 640.5 ft. MSL or 137.0 ft.

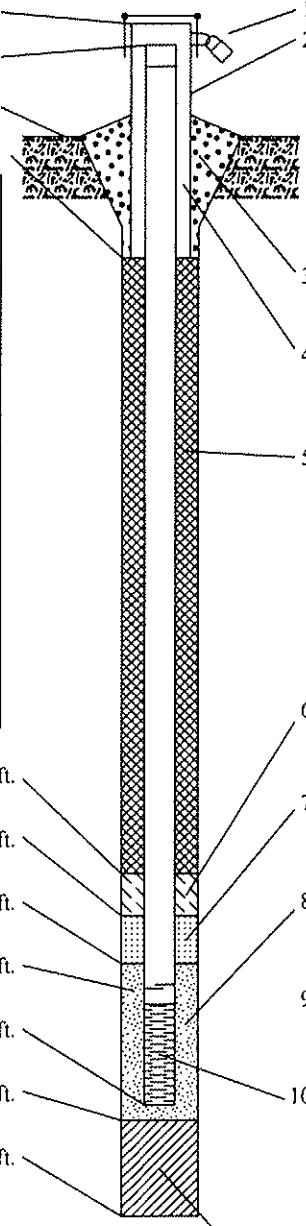
J. Filter pack, bottom 637.5 ft. MSL or 140.0 ft.

K. Borehole, bottom 635.5 ft. MSL or 142.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Aluminum — 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: Badger 45/55 sand — Bentonite ☐ 3 0 Other ☒ __

5. Annular space seal:
a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 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. Badger 40/70 __
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 45/55 __
b. Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3 Flush threaded PVC schedule 80 ☒ 2 4 ____ Other ☐ __

10. Screen material: PVC __
a. Screen Type: Factory cut ☒ 1 1 Continuous slot ☐ 0 1 ____ Other ☐ __
b. Manufacturer Buffalo
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 1 4 Clay/bentonite chips Other ☒ __

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

Signature: Thomas E. Kiel

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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.

295

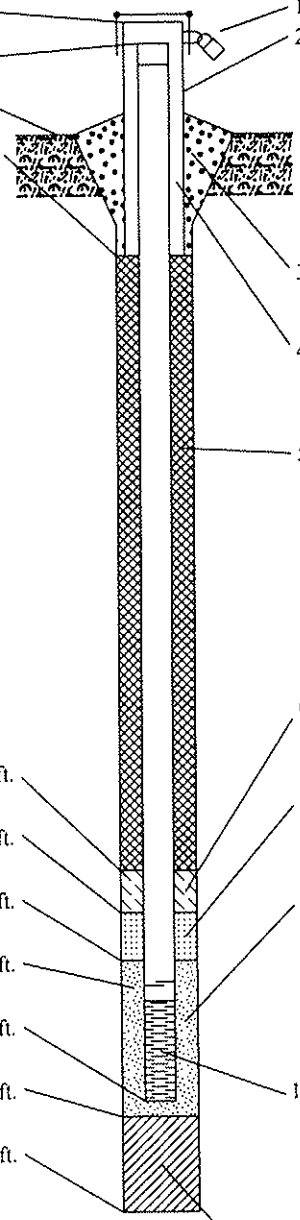
State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW304A
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PA413 / DNR Well Number: 202
Facility ID: 268244130	St. Plane 313,336 ft. N, 2,514,258 ft. E. S/C/N	Date Well Installed: 01/11/2007
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36 T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): John Carlson / STS
Distance from Waste/Source: 75 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:



A. Protective pipe, top elevation 783.52 ft. MSL

B. Well casing, top elevation 782.98 ft. MSL

C. Land surface elevation 781.3 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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, if required):

E. Bentonite seal, top 780.3 ft. MSL or 1.0 ft.

F. Fine sand, top 777.3 ft. MSL or 4.0 ft.

G. Filter pack, top 776.3 ft. MSL or 5.0 ft.

H. Screen joint, top 775.3 ft. MSL or 6.0 ft.

I. Well bottom 765.3 ft. MSL or 16.0 ft.

J. Filter pack, bottom 764.8 ft. MSL or 16.5 ft.

K. Borehole, bottom 764.8 ft. MSL or 16.5 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: 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 Badger 45/55 sand Other ☒ __

5. Annular space seal: a. Granular/Chipped 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. ____ Ft^3 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 chips ☒ 32
c. ____ Other ☐ __

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger 40/70
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 45/55
b. Volume added ____ ft^3

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 Buffalo
c. Slot size: 0.010 in.
d. Slotted length: 10.0 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: Thomas E. Kaal

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717

Tel: (608) 831-4444
Fax: (608) 831-3334

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.

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State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW304B
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or	Wis. Unique Well No.: PA414 / DNR Well Number: 204
Facility ID: 268244130	St. Plane 313,335 ft. N, 2,514,252 ft. E. S/C/N	Date Well Installed: 01/15/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ___ 1/4 of ___ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) John Carlson / STS
Distance from Waste/Source: 75 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 783.84 ft. MSL

B. Well casing, top elevation 783.51 ft. MSL

C. Land surface elevation 781.2 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):
Emerald Park Well #1

E. Bentonite seal, top 723.2 ft. MSL or 58.0 ft.

F. Fine sand, top 713.2 ft. MSL or 68.0 ft.

G. Filter pack, top 711.2 ft. MSL or 70.0 ft.

H. Screen joint, top 709.2 ft. MSL or 72.0 ft.

I. Well bottom 704.2 ft. MSL or 77.0 ft.

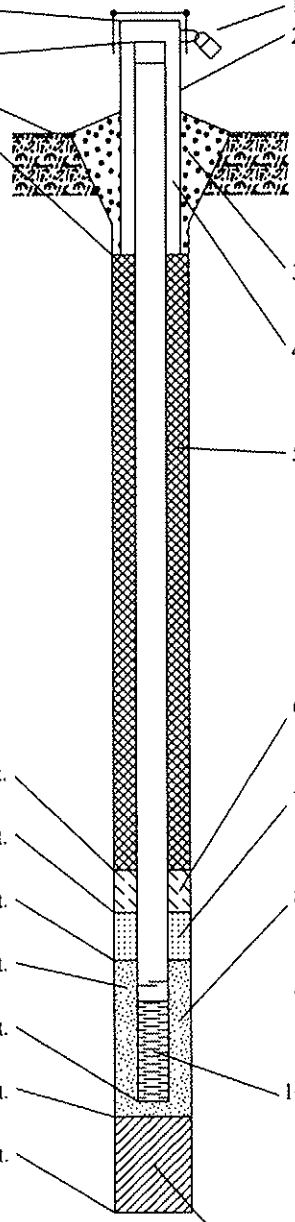
J. Filter pack, bottom 702.2 ft. MSL or 79.0 ft.

K. Borehole, bottom 701.2 ft. MSL or 80.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Steel ☐ 0 4
Aluminum 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
Badger 45/55 sand Other ☒ __
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 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. Badger 40/70 __
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 45/55 __
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐ __
10. Screen material: PVC __
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ __
b. Manufacturer Buffalo
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4
____ Other ☐ __

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

Signature: Dhimco E. Kich

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717

Tel: (608) 831-4444
Fax: (608) 831-3334

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.

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State of Wisconsin
Department of Natural Resources

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

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

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW304C
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PA412 / DNR Well Number: 206
Facility ID: 268244130	St. Plane 313,335 ft. N, 2,514,263 ft. E. S/C/N	Date Well Installed: 01/10/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) John Carlson, STS
Distance from Waste/Source: 75 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number:	

A. Protective pipe, top elevation 783.50 ft. MSL

B. Well casing, top elevation 783.00 ft. MSL

C. Land surface elevation 781.3 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):
Emerald Park Well #1

E. Bentonite seal, top 676.8 ft. MSL or 104.5 ft.

F. Fine sand, top 665.3 ft. MSL or 116.0 ft.

G. Filter pack, top 663.3 ft. MSL or 118.0 ft.

H. Screen joint, top 661.3 ft. MSL or 120.0 ft.

I. Well bottom 656.3 ft. MSL or 125.0 ft.

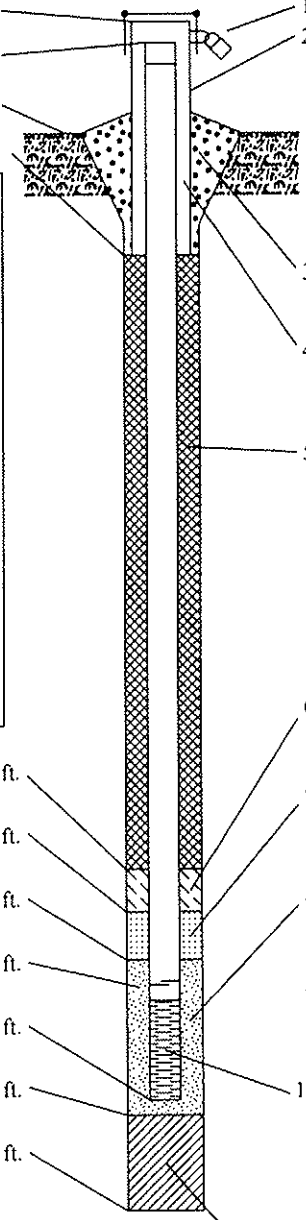
J. Filter pack, bottom 654.1 ft. MSL or 127.2 ft.

K. Borehole, bottom 611.3 ft. MSL or 170.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Steel ☐ 0 4
Aluminum 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
Badger 45/55 sand Other ☒ __
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 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. Badger 40/70 __
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 45/55 __
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3
Flush threaded PVC schedule 80 ☒ 2 4
____ Other ☐ __
10. Screen material: PVC __
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ __
b. Manufacturer Buffalo
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4
Clay/bentonite grout/chips Other ☒ __

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

Signature: Dennis E. Kiel

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4444
Fax: (608) 831-3334

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.

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State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW305A
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PA430 / DNR Well Number: 208
Facility ID: 268244130	St. Plane 313,357 ft. N, 2,514,635 ft. E. S/C/N	Date Well Installed: 01/12/2007
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) John Denneau, STS
Distance from Waste/Source: 60 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number:	

A. Protective pipe, top elevation 781.04 ft. MSL

B. Well casing, top elevation 780.41 ft. MSL

C. Land surface elevation 778.9 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):

E. Bentonite seal, top 778.9 ft. MSL or 0.0 ft.

F. Fine sand, top 775.9 ft. MSL or 3.0 ft.

G. Filter pack, top 775.4 ft. MSL or 3.5 ft.

H. Screen joint, top 774.9 ft. MSL or 4.0 ft.

I. Well bottom 764.9 ft. MSL or 14.0 ft.

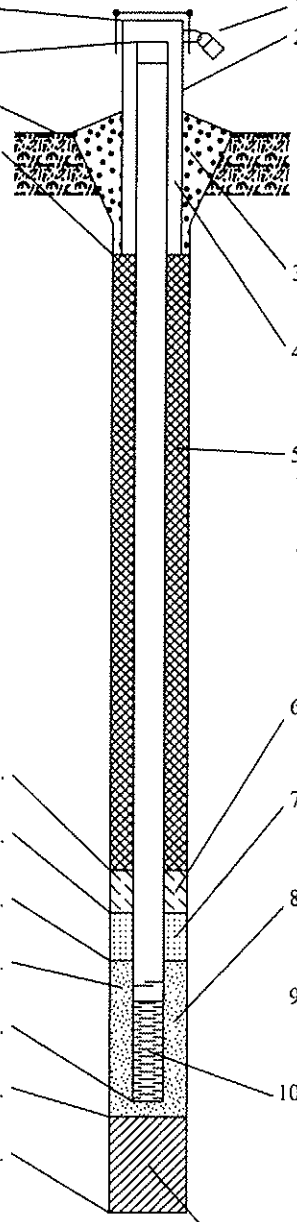
J. Filter pack, bottom 764.4 ft. MSL or 14.5 ft.

K. Borehole, bottom 764.4 ft. MSL or 14.5 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Aluminum — 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, Other ☒ __
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. ____ Ft^3 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. Badger 40/70
   b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
   a. Badger 45/55
   b. Volume added 3.5 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3, Flush threaded PVC schedule 80 ☐ 2 4, Other ☐ __
10. Screen material: PVC
    a. Screen Type: Factory cut ☒ 1 1, Continuous slot ☐ 0 1, Other ☐ __
    b. Manufacturer Buffalo
    c. Slot size: 0.010 in.
    d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4, Other ☒ __

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

Signature	Firm	
Thomas E. Koch	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-4444 Fax: (608) 831-3334

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State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW305B
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VT600 / DNR Well Number: 210
Facility ID: 268244130	St. Plane 313,357 ft. N, 2,514,646 ft. E. S/C/N	Date Well Installed: 01/15/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): John Denneau, STS
Distance from Waste/Source: 60 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 781.30 ft. MSL

B. Well casing, top elevation 780.60 ft. MSL

C. Land surface elevation 778.9 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):
Emerald Park Well #1

E. Bentonite seal, top 697.9 ft. MSL or 81.0 ft.

F. Fine sand, top 691.9 ft. MSL or 87.0 ft.

G. Filter pack, top 689.9 ft. MSL or 89.0 ft.

H. Screen joint, top 687.9 ft. MSL or 91.0 ft.

I. Well bottom 682.9 ft. MSL or 96.0 ft.

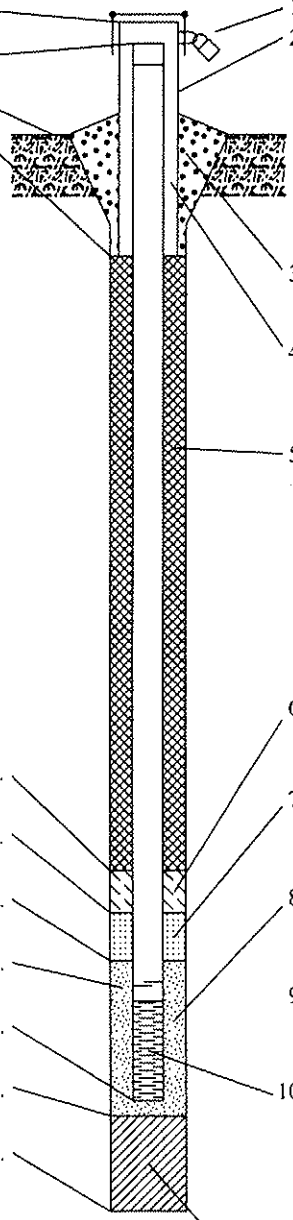
J. Filter pack, bottom 682.9 ft. MSL or 96.0 ft.

K. Borehole, bottom 674.9 ft. MSL or 104.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Steel ☐ 0 4
Aluminum 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
____ Other ☒ __
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 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. Badger 40/70 __
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Cave-in to 93 ft; Badger 45/55 to 89 ft. __
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐ __
10. Screen material: PVC __
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ __
b. Manufacturer Buffalo
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4
Natural cave-in Other ☒ __

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

Signature: Thomas E. Kiel

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717

Tel: (608) 831-4444
Fax: (608) 831-3334

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.

300

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW305C
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or	Wis. Unique Well No.: PA429 / DNR Well Number: 212
Facility ID: 268244130	St. Plane 313,357 ft. N, 2,514,640 ft. E. S/C/N	Date Well Installed: 01/11/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ___ 1/4 of ___ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): John Denneau / STS
Distance from Waste/Source: 60 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 781.07 ft. MSL

B. Well casing, top elevation 780.42 ft. MSL

C. Land surface elevation 778.8 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):
Emerald Park Well #1

E. Bentonite seal, top 665.8 ft. MSL or 113.0 ft.

F. Fine sand, top 657.8 ft. MSL or 121.0 ft.

G. Filter pack, top 655.8 ft. MSL or 123.0 ft.

H. Screen joint, top 653.8 ft. MSL or 125.0 ft.

I. Well bottom 648.8 ft. MSL or 130.0 ft.

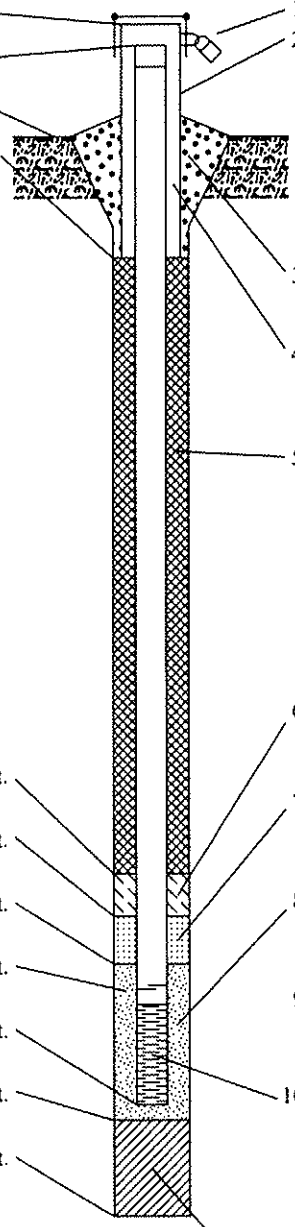
J. Filter pack, bottom 646.8 ft. MSL or 132.0 ft.

K. Borehole, bottom 616.3 ft. MSL or 162.5 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Steel ☐ 0 4
Aluminum 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
Badger 45/55 sand Other ☒ __

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 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. Badger 40/70 __
b. Volume added 1 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 45/55 __
b. Volume added 3 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3
Flush threaded PVC schedule 80 ☒ 2 4
____ Other ☐ __

10. Screen material: PVC __
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ __
b. Manufacturer Buffalo
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 1 4
Clay/bentonite grout/chips Other ☒ __

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

Signature: Thomas E. Kiel	Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-4444 Fax: (608) 831-3334

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.

301

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: P311
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis. Unique Well No.: PA419 / DNR Well Number: 214
Facility ID: 268244130	St. Plane 315,252 ft. N, 2,513,733 ft. E. S/C/N	Date Well Installed: 01/23/2007
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ___ 1/4 of ___ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): John Carlson; STS
Distance from Waste/Source: 10 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 778.07 ft. MSL

B. Well casing, top elevation 777.55 ft. MSL

C. Land surface elevation 775.7 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):
____

E. Bentonite seal, top 775.7 ft. MSL or 0.0 ft.

F. Fine sand, top 771.5 ft. MSL or 4.2 ft.

G. Filter pack, top 770.7 ft. MSL or 5.0 ft.

H. Screen joint, top 769.7 ft. MSL or 6.0 ft.

I. Well bottom 759.7 ft. MSL or 16.0 ft.

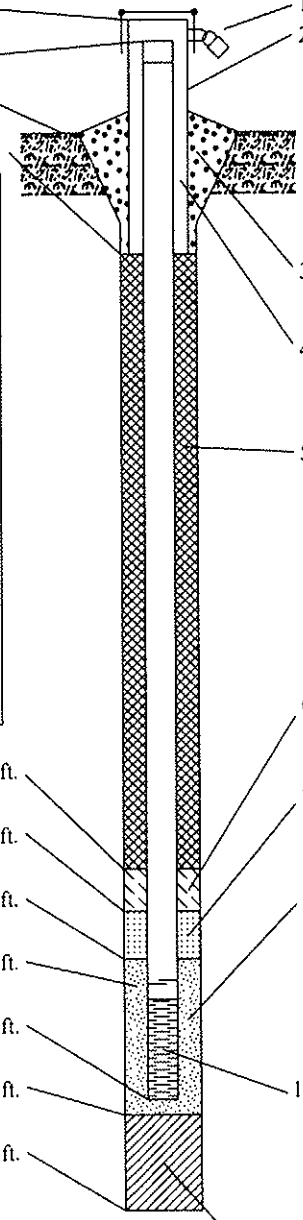
J. Filter pack, bottom 759.7 ft. MSL or 16.0 ft.

K. Borehole, bottom 759.7 ft. MSL or 16.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Steel ☐ 0 4
Aluminum 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
____ Other ☒ __

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. ____ Ft^3 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. Badger 40/70 __
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 45/55 __
b. Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐ __

10. Screen material: PVC __
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ __
b. Manufacturer Buffalo
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☐ 1 4
____ Other ☒ __

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

Signature: Thomas E. Kral

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717

Tel: (608) 831-4444
Fax: (608) 831-3334

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.

302

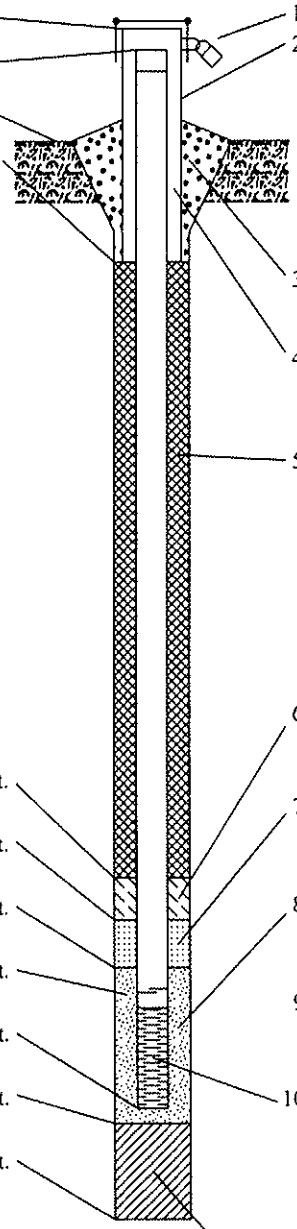
State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Veolia Emerald Park Landfill Expansion	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: P312
Facility License, Permit or Monitoring No.: 3290	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PA418 / DNR Well Number: 216
Facility ID: 268244130	St. Plane 314,022 ft. N, 2,513,766 ft. E. S/C/N	Date Well Installed: 01/23/2007
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Well Installed By: (Person's Name and Firm) John Carlson STS
Distance from Waste/Source: 40 ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number:	



A. Protective pipe, top elevation 782.15 ft. MSL

B. Well casing, top elevation 781.56 ft. MSL

C. Land surface elevation 779.7 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ 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):

E. Bentonite seal, top 779.7 ft. MSL or 0.0 ft.

F. Fine sand, top 775.2 ft. MSL or 4.5 ft.

G. Filter pack, top 774.2 ft. MSL or 5.5 ft.

H. Screen joint, top 773.7 ft. MSL or 6.0 ft.

I. Well bottom 763.7 ft. MSL or 16.0 ft.

J. Filter pack, bottom 763.7 ft. MSL or 16.0 ft.

K. Borehole, bottom 763.7 ft. MSL or 16.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 5.0 ft.
   c. Material: Steel ☐ 0 4
   Aluminum 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
   ____ Other ☒ __
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. ____ Ft^3 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. Badger 40/70 __
   b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
   a. Badger 45/55 __
   b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
   Flush threaded PVC schedule 80 ☐ 2 4
   ____ Other ☐ __
10. Screen material: PVC __
   a. Screen Type: Factory cut ☒ 1 1
   Continuous slot ☐ 0 1
   ____ Other ☐ __
   b. Manufacturer Buffalo
   c. Slot size: 0.010 in.
   d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4
   ____ Other ☒ __

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

Signature	Firm	
Thomas E Kaul	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-4444 Fax: (608) 831-3334

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.

303

Monitoring Well Development Forms

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW301A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PI955	184

1. Can this well be purged dry? ☐ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	__

3. Time spent developing well ____ min.

4. Depth of well (from top of well casing) ____ ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing ____ gal.

7. Volume of water removed from well ____ gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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. ____ ft.	____ ft.
Date	b.	
Time	c. ☒ a.m. ☐ p.m.	☒ a.m. ☐ p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (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
Thomas Koch
RMT, Inc.

17. Additional comments on development:
Well dry on at least 4 occasions.

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach
Firm: Veolia Emerald Park LF
Street: W124 S. 10629 South 124th
City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E. Koch
Print Name: Thomas E. Koch
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

307

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW301B

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PI954	186

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	__

3. Time spent developing well 90 min.

4. Depth of well (from top of well casing) 74.5 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 14.5 gal.

7. Volume of water removed from well 34.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	7.35 ft.	ft.
Date	b.	2/8/2007	2/27/2007
Time	c.	01:00 ☐ a.m. ☒ p.m.	01:00 ☐ a.m. ☒ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Very turbid	Clear ☐ 20 Turbid ☒ 25 (Describe) Slightly turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	11.0 mg/l
15. COD	mg/l	31.4 mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:
Well bailed dry 3 times.

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach
Firm: Veolia Emerald Park LF
Street: W124 S. 10629 South 124th
City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E Koch
Print Name: Thomas E. Koch
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

308

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW301C

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PI953	188

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 180 min.

4. Depth of well (from top of well casing) 127.8 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 19.4 gal.

7. Volume of water removed from well 51.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	30.67 ft.	ft.
Date	b.	2/7/2007	2/27/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		6.0 inches	4.0 inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) Very turbid	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe) Mildly turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	91.6 mg/l
15. COD	mg/l	543.0 mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:
Well bailed dry 3 times.

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach
Firm: Veolia Emerald Park LF
Street: W124 S. 10629 South 124th
City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E. Koch
Print Name: Thomas E. Koch
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW302A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PI951	190

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) 15.8 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 10.5 gal.

7. Volume of water removed from well 19.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	3.66 ft.	ft.
Date	b.	2/2/2007	2/7/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		1.0 inches	inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) Medium turbidity	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe) Slightly turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	66.8 mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:
Well bailed dry 3 times.

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach
Firm: Veolia Emerald Park LF
Street: W124 S. 10629 South 124th
City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E. Koch
Print Name: Thomas E. Koch
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

310

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW302B

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PI952	192

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 120 min.

4. Depth of well (from top of well casing) 79.6 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 13.1 gal.

7. Volume of water removed from well 38.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	22.18 ft.	ft.
Date	b.	2/2/2007	2/7/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) Very turbid	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe) Slightly turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	125.0 mg/l
15. COD	mg/l	80.0 mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:
Well bailed dry 3 times.

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach
Firm: Veolia Emerald Park LF
Street: W124 S. 10629 South 124th
City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E. Koch
Print Name: Thomas E. Koch
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW302C

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PA420	194

1. Can this well be purged dry? ☐ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	--

3. Time spent developing well 160 min.

4. Depth of well (from top of well casing) 137.1 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 20.2 gal.

7. Volume of water removed from well 133.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	36.87 ft.	ft.
Date	b.	2/2/2007	2/9/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Very turbid	Clear ☐ 20 Turbid ☒ 25 (Describe) Slightly turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	647.0 mg/l
15. COD	mg/l	357.0 mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach

Firm: Veolia Emerald Park LF

Street: W124 S. 10629 South 124th

City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E. Koch

Print Name: Thomas E. Koch

Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW303A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PA416	196

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	__

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 17.9 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 3.5 gal.

7. Volume of water removed from well 4.5 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	13.97 ft.	ft.
Date	b.	2/1/2007	2/7/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☒ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☒ 25 (Describe) Slightly turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	16.0 mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:
Well bailed dry 3 times.

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach
Firm: Veolia Emerald Park LF
Street: W124 S. 10629 South 124th
City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E. Koch
Print Name: Thomas E. Koch
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW303B

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PA417	198

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	--

3. Time spent developing well 90 min.

4. Depth of well (from top of well casing) 75.9 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 12.5 gal.

7. Volume of water removed from well 16.5 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	18.90 ft.	ft.
Date	b.	2/1/2007	2/7/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Very turbid	Clear ☐ 20 Turbid ☒ 25 (Describe) Moderate turbidity

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	5570.0 mg/l
15. COD	mg/l	1290.0 mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:
Well bailed dry 3 times.

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach
Firm: Veolia Emerald Park LF
Street: W124 S. 10629 South 124th
City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E. Koch
Print Name: Thomas E. Koch
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW303C

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PA415	200

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	__

3. Time spent developing well 180 min.

4. Depth of well (from top of well casing) 138.9 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 21.6 gal.

7. Volume of water removed from well 96.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	27.31 ft.	ft.
Date	b.	2/1/2007	2/8/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		4.0 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Very turbid	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	170.0 mg/l
15. COD	mg/l	57.2 mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach
Firm: Veolia Emerald Park LF
Street: W124 S. 10629 South 124th
City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E. Koch
Print Name: Thomas E. Koch
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW304A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PA413	202

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	__

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 17.7 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 0.9 gal.

7. Volume of water removed from well 5.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	16.93 ft.	ft.
Date	b.	2/1/2007	2/7/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Very turbid	Clear ☐ 20 Turbid ☒ 25 (Describe) Moderate turbidity

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	21.6 mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:
Well bailed dry 3 times.

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach
Firm: Veolia Emerald Park LF
Street: W124 S. 10629 South 124th
City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E. Koch
Print Name: Thomas E. Koch
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW304B

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PA414	204

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	__

3. Time spent developing well 120 min.

4. Depth of well (from top of well casing) 79.3 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 10.8 gal.

7. Volume of water removed from well 24.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	32.45 ft.	ft.
Date	b.	2/1/2007	2/7/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		10.0 inches	1.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Moderate turbidity	Clear ☐ 20 Turbid ☒ 25 (Describe) Very turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	4080.0 mg/l
15. COD	mg/l	37.2 mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:
Well bailed dry 3 times.

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach

Firm: Veolia Emerald Park LF

Street: W124 S. 10629 South 124th

City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E. Koch

Print Name: Thomas E. Koch

Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW304C

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PA412	206

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	__

3. Time spent developing well 180 min.

4. Depth of well (from top of well casing) 126.7 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 18.7 gal.

7. Volume of water removed from well 90.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	31.92 ft.	ft.
Date	b.	2/1/2007	2/8/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		20.0 inches	inches

13. Water clarity

Before Development	After Development
Clear ☐ 10	Clear ☒ 20
Turbid ☒ 15	Turbid ☐ 25
(Describe) Very turbid	(Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	109.0 mg/l
15. COD	mg/l	80.0 mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach
Firm: Veolia Emerald Park LF
Street: W124 S. 10629 South 124th
City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E. Koch
Print Name: Thomas E. Koch
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW305A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PA430	208

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) 15.5 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 1.2 gal.

7. Volume of water removed from well 20.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	14.62 ft.	ft.
Date	b.	1/31/2007	2/2/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		inches	0.0 inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) Slight turbidity	Clear ☒ 2 0 Turbid ☐ 2 5 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	6.2 mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:
Well bailed dry 3 times.

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach

Firm: Veolia Emerald Park LF

Street: W124 S. 10629 South 124th

City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E Koch

Print Name: Thomas E. Koch

Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW305B

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	VT600	210

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 180 min.

4. Depth of well (from top of well casing) 97.7 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 14.6 gal.

7. Volume of water removed from well 75.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	28.23 ft.	ft.
Date	b.	1/31/2007	2/8/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		0.0 inches	0.0 inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) Moderate turbidity	Clear ☒ 2 0 Turbid ☐ 2 5 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	197.0 mg/l
15. COD	mg/l	45.7 mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach

Firm: Veolia Emerald Park LF

Street: W124 S. 10629 South 124th

City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E Koch

Print Name: Thomas E. Koch

Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	MW305C

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PA429	212

1. Can this well be purged dry? ☐ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	__

3. Time spent developing well 180 min.

4. Depth of well (from top of well casing) 131.6 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 19.3 gal.

7. Volume of water removed from well 95.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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.	33.44 ft.	ft.
Date	b.	1/31/2007	2/8/2007
Time	c.	12:00 ☒ a.m. ☐ p.m.	12:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		36.0 inches	20.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	239.0 mg/l
15. COD	mg/l	57.2 mg/l

16. Well developed by: Person's Name and Firm
Thomas Koch
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Thomas Marach
Firm: Veolia Emerald Park LF
Street: W124 S. 10629 South 124th
City/State/Zip: Muskego, WI 53150

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

Signature: Thomas E Koch
Print Name: Thomas E. Koch
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	P311

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PA419	214

1. Can this well be purged dry? ☐ Yes ☐ No

2. Well development method:
   - surged with bailer and bailed ☐ 41
   - surged with bailer and pumped ☐ 61
   - surged with block and bailed ☐ 42
   - surged with block and pumped ☐ 62
   - surged with block, bailed, and pumped ☐ 70
   - compressed air ☐ 20
   - bailed only ☐ 10
   - pumped only ☐ 51
   - pumped slowly ☐ 50
   - other _____ ☐ __

3. Time spent developing well min.

4. Depth of well (from top of well casing) ft.

5. Inside diameter of well in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

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.	ft.	ft.
Date	b.		
Time	c.	☒ a.m. ☐ p.m.	☒ a.m. ☐ p.m.
12. Sediment in well bottom		inches	inches
13. Water clarity		Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (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:
Well installed for water level measurements only.

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: Thomas E. Koch

Print Name: Thomas E. Koch

Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
Veolia Emerald Park Landfill Expansion	Waukesha	P312

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
3290	68	PA418	216

1. Can this well be purged dry? ☐ Yes ☐ No

2. Well development method:
   - surged with bailer and bailed ☐ 41
   - surged with bailer and pumped ☐ 61
   - surged with block and bailed ☐ 42
   - surged with block and pumped ☐ 62
   - surged with block, bailed, and pumped ☐ 70
   - compressed air ☐ 20
   - bailed only ☐ 10
   - pumped only ☐ 51
   - pumped slowly ☐ 50
   - other _____ ☐ __

3. Time spent developing well min.

4. Depth of well (from top of well casing) ft.

5. Inside diameter of well in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

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.	ft.	ft.
Date	b.		
Time	c.	☒ a.m. ☐ p.m.	☒ a.m. ☐ p.m.
12. Sediment in well bottom		inches	inches
13. Water clarity		Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (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:
Well installed for water level measurements only.

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: Thomas E. Koch

Print Name: Thomas E. Koch

Firm: RMT, INC.

NOTE: See instructions for more information including a list of county codes and well type codes.

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Historical Monitoring Well Diagrams

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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5710.0 ft. ☐ S. 4292.5 ft. ☐ W.	Well Name MW131D
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number ____ DNR Well ____
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source NE¼ of SW¼ of Sec. 36, T 5N, R 20 ■ E. ☐ W.	Date Well Installed 04 / 24 / 96 MM DD YY
Distance Well is From Waste/Source Boundary 90 ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ☐ Not Known VARIABLE	Well Installed By: (Persons' Name and Firm) MATECO Drilling Steve Rempulski
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 777.91 ft. MSL

B. Well casing, top elevation 777.41 ft. MSL

C. Land surface elevation 774.18 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 2.0 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 ☐ 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):

City of Franklin

E. Bentonite seal, top ____.__ ft. MSL or 2.0 ft.

F. Fine sand, top ____.__ ft. MSL or 77.0 ft.

G. Filter pack, top ____.__ ft. MSL or 79.0 ft.

H. Screen joint, top ____.__ ft. MSL or 80.0 ft.

I. Well bottom ____.__ ft. MSL or 85.0 ft.

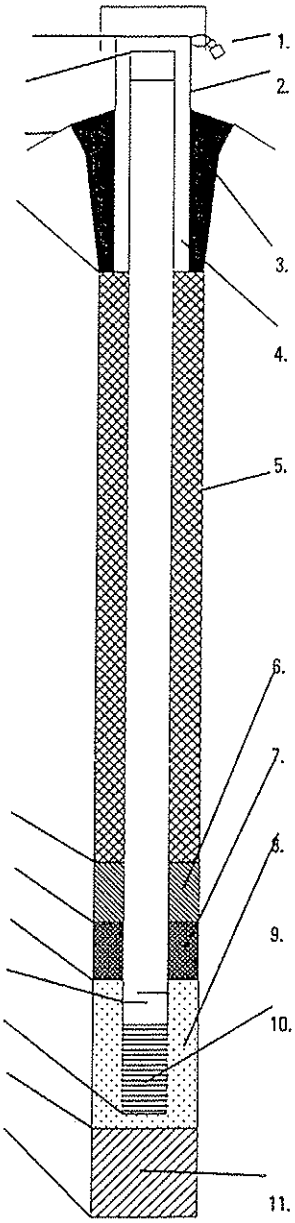
J. Filter pack, bottom ____.__ ft. MSL or 85.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 85.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 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
Annular space seal ☐
____ Other ☐

5. Annular space seal: a. Granular Bentonite ☐ 73
b. ___ Lbs/gal mud weight.... Bentonite-sand slurry ☐
c. ___ Lbs/gal mud weight..... Bentonite slurry ☐ 31
d. ___ % Bentonite..... Bentonite-cement grout ☐ 50
e. 120 gallon 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 5 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
____ Other ☐

10. Screen Material: 2" Sch. 80 PVC
a. Screen type: Factory cut ■ 11
____ Continuous slot ☐ 01
Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 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 RMT, 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. Adm. 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 $5,000 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.

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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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5696.2 ft. ☐ S. 4290.3 ft. ☐ W.	Well Name MW131C
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number ____ DNR Well N: ____
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source NE¼ of SW¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 04 / 23 / 96 MM DD YY
Distance Well is From Waste/Source Boundary 90 ft.	Location of Well Relative to Waste/Source U ■ Upgradient S ☐ Sidegradient D ☐ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Steve Renpulski
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 777.53 ft. MSL

B. Well casing, top elevation 777.12 ft. MSL

C. Land surface elevation 774.26 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 2.0 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 ☐ 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):

City of Franklin

E. Bentonite seal, top ____.__ ft. MSL or 2.0 ft.

F. Fine sand, top ____.__ ft. MSL or 116.0 ft.

G. Filter pack, top ____.__ ft. MSL or 118.0 ft.

H. Screen joint, top ____.__ ft. MSL or 119.0 ft.

I. Well bottom ____.__ ft. MSL or 124.0 ft.

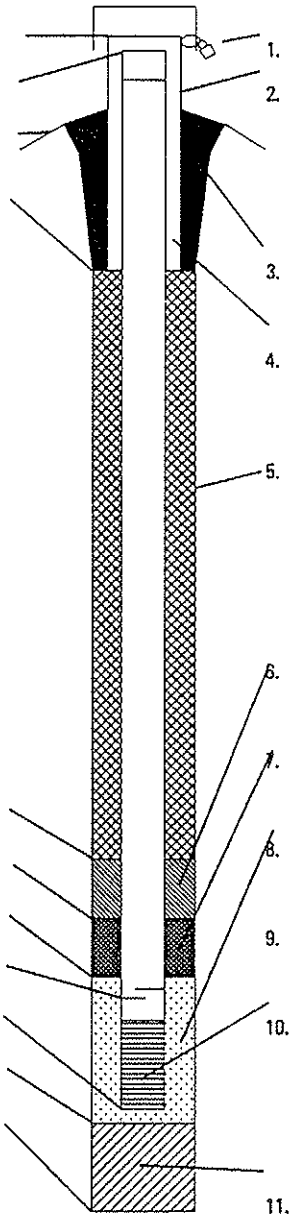
J. Filter pack, bottom ____.__ ft. MSL or 124.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 130.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 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
Annular space seal ☐
____ 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 1
d. __ % Bentonite..... Bentonite-cement grout
e. 150 gallon 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 1 bag

8. Filter pack material: Manufacturer, product, mesh size
a. Flat Rock Filter Sand #30
b. Volume added 8 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
____ Other ☐

10. Screen Material: 2" Sch. 80 PVC
a. Screen type: Factory cut ■ 11
____ Continuous slot ☐ 01
Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 in
d. Slotted length: 5.0 ft

11. Backfill material (below filter pack): None ☐ 14
Clay Other ■

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

Signature [signature] Firm RMT, 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. Adm. 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 $5,000 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.

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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. 4-9(

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5722.6 ft. ☐ S. 4293.7 ft. ☐ W.	Well Name MW131A
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR We.
Type of Well: Water Table Observation Well ■ 11 Piezometer ☐ 12	Section Location of Waste/Source NE¼ of SW¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 04 / 25 / 96 MM DD YY
Distance Well is From Waste/Source Boundary 90 ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ■ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Steve Rempulski
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 778.10 ft. MSL

B. Well casing, top elevation 777.48 ft. MSL

C. Land surface elevation 774.20 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL 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 ☐ 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 ____.__ ft. MSL or 1.0 ft.

F. Fine sand, top ____.__ ft. MSL or 3.0 ft.

G. Filter pack, top ____.__ ft. MSL or 4.0 ft.

H. Screen joint, top ____.__ ft. MSL or 5.0 ft.

I. Well bottom ____.__ ft. MSL or 15.0 ft.

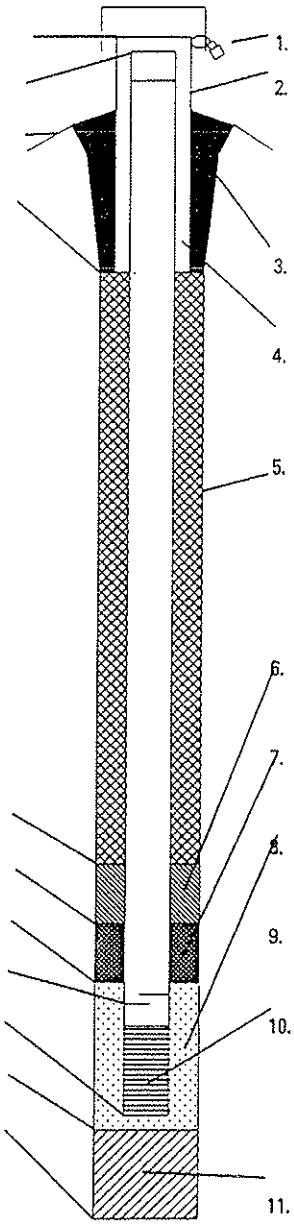
J. Filter pack, bottom ____.__ ft. MSL or 15.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 15.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 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
Annular space seal ☐
____ 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. 1/2 bag 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. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 10 bags

9. Well casing: Flush threaded PVC schedule 40 ■ 23
Flush threaded PVC schedule 80 ☐ 24
____ Other ☐

10. Screen Material: 2" Sch. 40 PVC
a. Screen type: Factory cut ■ 11
____ Continuous slot ☐ 01
Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 in
d. Slotted length: 10.0 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 Thomas G. Kiel
Firm RMT, 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. Adm. 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 $5,000 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.

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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. 4-9(

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5336.6 ft. ☐ S. 5036.8 ft. ☐ W.	Well Name MW128A
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well I
Type of Well: Water Table Observation Well ■ 11 Piezometer ☐ 12	Section Location of Waste/Source NW¼ of SE¼ of Sec. 36, T. 5N, R20 ■ E. ☐ W.	Date Well Installed 05 / 03 / 96 M M D D Y Y
Distance Well is From Waste/Source Boundary Within	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ■ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 785.48 ft. MSL

B. Well casing, top elevation 784.83 ft. MSL

C. Land surface elevation 782.12 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 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 ☐ 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 ____.__ ft. MSL or 0.0 ft.

F. Fine sand, top ____.__ ft. MSL or 2.0 ft.

G. Filter pack, top ____.__ ft. MSL or 3.5 ft.

H. Screen joint, top ____.__ ft. MSL or 5.0 ft.

I. Well bottom ____.__ ft. MSL or 15.0 ft.

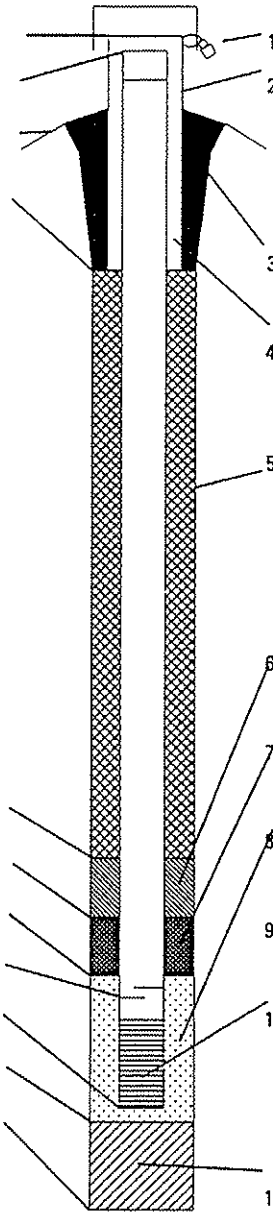
J. Filter pack, bottom ____.__ ft. MSL or 15.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 15.5 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 f
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
Annular space seal ☐
_____ 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
d. __ % Bentonite..... Bentonite-cement grout
e. 1/2 bag 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. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 7 bags

9. Well casing: Flush threaded PVC schedule 40 ■ 23
Flush threaded PVC schedule 80 ☐ 24
_____ Other ☐

10. Screen Material: 2" Sch. 40 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 in
d. Slotted length: 10.0 f

11. Backfill material (below filter pack): None ☐ 14
Clay Other ■

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

Signature Thomas E. Kral

Firm RMT, 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. Adm. 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 $5,000 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.

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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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4923.6 ft. ☐ S. 4336.5 ft. ☐ W.	Well Name MW126A
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well
Type of Well: Water Table Observation Well ■ 11 Piezometer ☐ 12	Section Location of Waste/Source NE¼ of SW¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 05 / 03 / 96 MM DD YY
Distance Well is From Waste/Source Boundary 50 ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ■ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 778.39 ft. MSL

B. Well casing, top elevation 777.70 ft. MSL

C. Land surface elevation 775.39 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 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 ☐ 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 ____.__ ft. MSL or 0.0 ft.

F. Fine sand, top ____.__ ft. MSL or 2.0 ft.

G. Filter pack, top ____.__ ft. MSL or 3.5 ft.

H. Screen joint, top ____.__ ft. MSL or 5.0 ft.

I. Well bottom ____.__ ft. MSL or 15.0 ft.

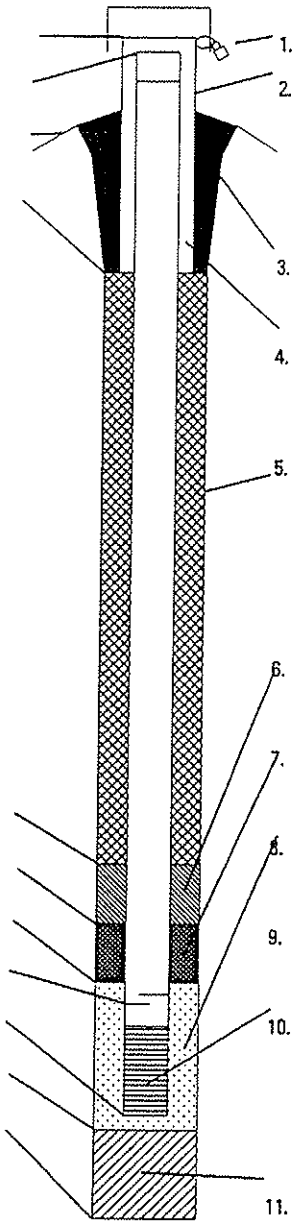
J. Filter pack, bottom ____.__ ft. MSL or 15.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 15.5 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 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
Annular space seal ☐
Other ☐
_____

5. Annular space seal:
a. Granular Bentonite
b. __ Lbs/gal mud weight.... Bentonite-sand slurry
c. __ Lbs/gal mud weight..... Bentonite slurry ☐ 31
d. __ % Bentonite..... Bentonite-cement grout ☐ 50
e. 1/2 bag 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. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 7 bags

9. Well casing: Flush threaded PVC schedule 40 ■ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
_____

10. Screen Material: 2" Sch. 40 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
Other ☐
_____
b. Manufacturer Diedrich
c. Slot size: 0.006 in
d. Slotted length: 10.0 ft

11. Backfill material (below filter pack): None ☐ 14
Clay Other ■

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

Signature [signature] Firm RMT, 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. Adm. 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 $5,000 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.

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331

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. 4-9(

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4487.5 ft. ☐ S. 4358.6 ft. ☐ W.	Well Name MW125D
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source ■ E. SE¼ of SW¼ of Sec. 36, T 5N, R20 ☐ W.	Date Well Installed 04 / 18 / 96 MM DD YY
Distance Well is From Waste/Source Boundary 60 ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ☐ Not Known VARIABLE	Well Installed By: (Persons' Name and Firm) MATECO Drilling Steve Rempulski
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 781.67 ft. MSL

B. Well casing, top elevation 781.06 ft. MSL

C. Land surface elevation 778.96 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 0.0 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 ☐ 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):

City of Franklin

E. Bentonite seal, top ____.__ ft. MSL or __0.__ ft.

F. Fine sand, top ____.__ ft. MSL or 86.0 ft.

G. Filter pack, top ____.__ ft. MSL or 88.0 ft.

H. Screen joint, top ____.__ ft. MSL or 89.0 ft.

I. Well bottom ____.__ ft. MSL or 94.0 ft.

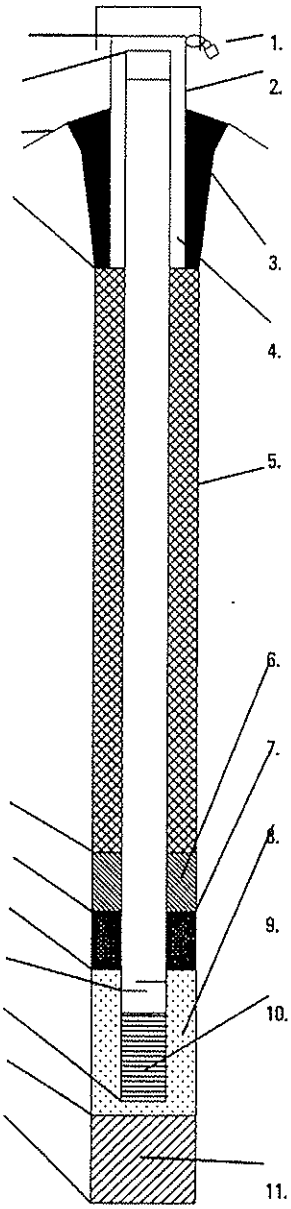
J. Filter pack, bottom ____.__ ft. MSL or 94.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 94.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 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
Annular space seal ☐
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
d. __ % Bentonite..... Bentonite-cement grout 50
e. 180 gallon 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Flat Rock Filter Sand #30
b. Volume added 5 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
Other ☐
____

10. Screen Material: 2" Sch. 80 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
Other ☐
____
b. Manufacturer Diedrich
c. Slot size: 0.006 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 Thomas E Kurl | Firm RMT, 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 [illegible], Wis. Adm. 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 $5,000 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.

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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. 4-9

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ☐ S. 4487.3 ft. ■ E. ☐ W. 4344.4 ft.	Well Name MW125C
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number ____ DNR Well Number ____
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source SE¼ of SW¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 04 / 17 / 96 MM DD YY
Distance Well is From Waste/Source Boundary 60 ft.	Location of Well Relative to Waste/Source U ■ Upgradient S ☐ Sidegradient D ☐ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Steve Rempulski
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 782.24 ft. MSL

B. Well casing, top elevation 781.59 ft. MSL

C. Land surface elevation 779.26 ft. MSL

D. Surface seal, bottom ____ ft. MSL or 0.0 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 ☐ 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):

City of Franklin

E. Bentonite seal, top ____ ft. MSL or 0.0 ft.

F. Fine sand, top ____ ft. MSL or 130.0 ft.

G. Filter pack, top ____ ft. MSL or 132.0 ft.

H. Screen joint, top ____ ft. MSL or 133.0 ft.

I. Well bottom ____ ft. MSL or 138.0 ft.

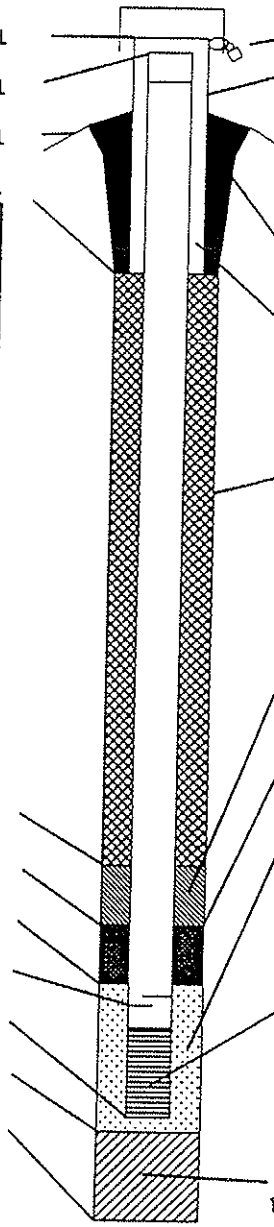
J. Filter pack, bottom ____ ft. MSL or 138.0 ft.

K. Borehole, bottom ____ ft. MSL or 138.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 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
Annular space seal ☐
Other ☐

5. Annular space seal:
a. Granular Bentonite
b. ___ Lbs/gal mud weight
c. ___ Lbs/gal mud weight
d. ___ % Bentonite
e. 240 gallon volume added for any of the above
f. How installed:
Bentonite-sand slurry ☐ 35
Bentonite slurry ■ 31
Bentonite-cement grout ☐ 50
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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Flat Rock Filter Sand #30
b. Volume added 5 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
Other ☐

10. Screen Material: 2" Sch. 80 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 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 RMT, 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. Adm. 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 $5,000 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.

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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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4487.7 ft. ☐ S. 4372.1 ft. ☐ W.	Well Name MW125A
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well
Type of Well: Water Table Observation Well ■ 11 Piezometer ☐ 12	Section Location of Waste/Source SE¼ of SW¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 04 / 19 / 96 MM DD YY
Distance Well is From Waste/Source Boundary 60 ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ■ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Steve Rempulski
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 781.67 ft. MSL

B. Well casing, top elevation 781.10 ft. MSL

C. Land surface elevation 778.66 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL 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 ☐ 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 ____.__ ft. MSL or 1.0 ft.

F. Fine sand, top ____.__ ft. MSL or 3.0 ft.

G. Filter pack, top ____.__ ft. MSL or 4.0 ft.

H. Screen joint, top ____.__ ft. MSL or 5.0 ft.

I. Well bottom ____.__ ft. MSL or 15.0 ft.

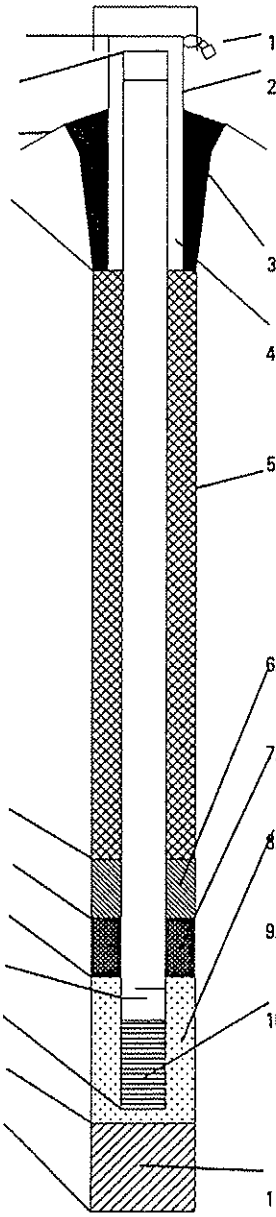
J. Filter pack, bottom ____.__ ft. MSL or 15.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 15.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 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
Annular space seal ☐
____ 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
d. __ % Bentonite..... Bentonite-cement grout
e. 1 bag 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. Red Flint Filter Sand #35/45
b. Volume added 2 bags ft.

8. Filter pack material: Manufacturer, product, mesh size
a. Flat Rock Filter Sand #30
b. Volume added 5 bags

9. Well casing: Flush threaded PVC schedule 40 ■ 23
Flush threaded PVC schedule 80 ☐ 24
____ Other ☐

10. Screen Material: 2" PVC, Sched. 40
a. Screen type: Factory cut ■ 11
____ Continuous slot ☐ 01
Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 in
d. Slotted length: 10.0 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 RMT, 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. Adm. 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 $5,000 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.

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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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4401.3 ft. ☐ S. 6001.6 ft. ☐ W.	Well Name MW121D
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source SW¼ of SE¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 05 / 08 / 96 MM DD YY
Distance Well is From Waste/Source Boundary 100 ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ☐ Not Known VARIABLE	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 788.77 ft. MSL

B. Well casing, top elevation 788.09 ft. MSL

C. Land surface elevation 785.27 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 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 ☐ 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):

City of Franklin

E. Bentonite seal, top ____.__ ft. MSL or __0.__ ft.

F. Fine sand, top ____.__ ft. MSL or 103.0 ft.

G. Filter pack, top ____.__ ft. MSL or 105.0 ft.

H. Screen joint, top ____.__ ft. MSL or 107.0 ft.

I. Well bottom ____.__ ft. MSL or 112.0 ft.

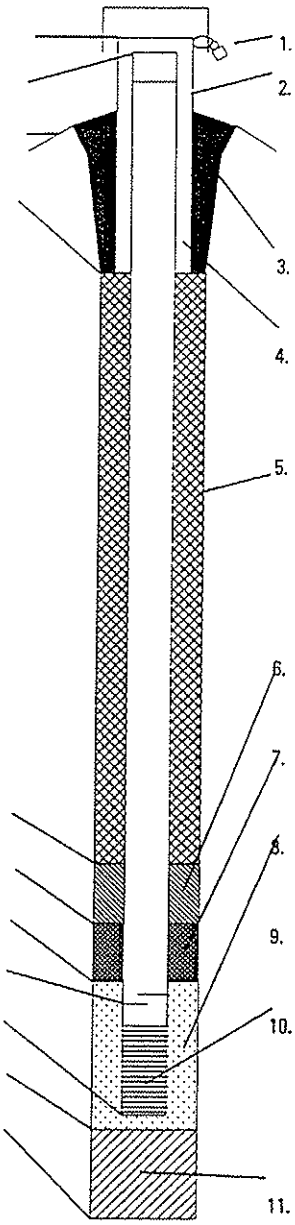
J. Filter pack, bottom ____.__ ft. MSL or 112.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 113.5 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 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
Annular space seal ☐
Other ☐
_____

5. Annular space seal:
a. Granular Bentonite
b. __ Lbs/gal mud weight.... Bentonite-sand slurry
c. __ Lbs/gal mud weight..... Bentonite slurry ■ 31
d. __ % Bentonite..... Bentonite-cement grout ☐ 50
e. 240 gallon 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 6 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
Other ☐
_____

10. Screen Material: 2" Sch. 80 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
Other ☐
_____
b. Manufacturer Diedrich
c. Slot size: 0.006 in
d. Slotted length: 5.0 ft

11. Backfill material (below filter pack): None ☐ 14
Clay Other ■

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

Signature [signature] Firm RMT, 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. Adm. 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 $5,000 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.

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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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4380.3 ft. ☐ S. 6019.2 ft. ☐ W.	Well Name MW121C
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well N
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source ■ E. SW¼ of SE¼ of Sec. 36, T 5N, R20 ☐ W.	Date Well Installed 05 / 07 / 96 M M D D Y Y
Distance Well is From Waste/Source Boundary 100 ft.	Location of Well Relative to Waste/Source U ■ Upgradient S ☐ Sidegradient D ☐ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Steve Rempulski
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation _788.95 ft. MSL

B. Well casing, top elevation _788.25 ft. MSL

C. Land surface elevation _785.78 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or _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 ☐ 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):

City of Franklin

E. Bentonite seal, top ____.__ ft. MSL or __0._ ft.

F. Fine sand, top ____.__ ft. MSL or 136.0 ft.

G. Filter pack, top ____.__ ft. MSL or 138.0 ft.

H. Screen joint, top ____.__ ft. MSL or 140.0 ft.

I. Well bottom ____.__ ft. MSL or 145.0 ft.

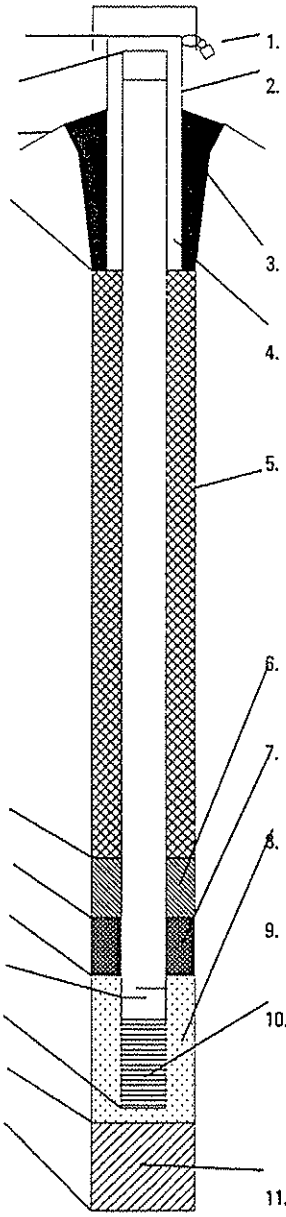
J. Filter pack, bottom ____.__ ft. MSL or 145.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 145.0 ft.

L. Borehole, diameter _9.0 in.

M. O.D. well casing _2.20 in.

N. I.D. well casing _2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: _4.0 in.
b. Length: _5.0 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
Annular space seal ☐
_____ 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
d. __ % Bentonite..... Bentonite-cement grout
e. 270 gal. 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 6 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
_____ Other ☐

10. Screen Material: 2" Sch 80 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 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	Firm RMT, 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. Adm. 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 $5,000 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.

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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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4415.2 ft. ☐ S. 5986.8 ft. ☐ W.	Well Name MW121A
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310.000 ft. N, 2,510.000 ft. E.	Wis. Unique Well Number DNR Well I
Type of Well: Water Table Observation Well ■ 11 Piezometer ☐ 12	Section Location of Waste/Source SW¼ of SE¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 05 / 08 / 96 MM DD YY
Distance Well is From Waste/Source Boundary 100 ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ■ Sidegradient D ☐ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 788.61 ft. MSL

B. Well casing, top elevation 787.91 ft. MSL

C. Land surface elevation 785.32 ft. MSL

D. Surface seal, bottom ____ ft. MSL or 0.0 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 ☐ 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 ____ ft. MSL or 0. ft.

F. Fine sand, top ____ ft. MSL or 3.0 ft.

G. Filter pack, top ____ ft. MSL or 4.0 ft.

H. Screen joint, top ____ ft. MSL or 5.0 ft.

I. Well bottom ____ ft. MSL or 15.0 ft.

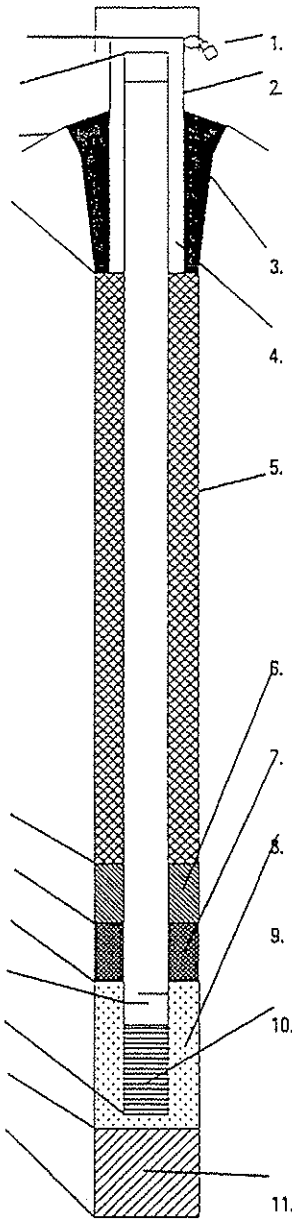
J. Filter pack, bottom ____ ft. MSL or 15.0 ft.

K. Borehole, bottom ____ ft. MSL or 15.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 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
Annular space seal ☐
____ Other ☐

5. Annular space seal: a. Granular Bentonite ■ 03
b. ___ Lbs/gal mud weight.... Bentonite-sand slurry
c. ___ Lbs/gal mud weight..... Bentonite slurry
d. ___ % Bentonite..... Bentonite-cement grout
e. 240 gallon 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. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 8 bags

9. Well casing: Flush threaded PVC schedule 40 ■ 23
Flush threaded PVC schedule 80 ☐ 24
____ Other ☐

10. Screen Material: 2" Sch 40 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
____ Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 in
d. Slotted length: 10.0 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 RMT, 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. Adm. 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 $5,000 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.

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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. 4-9(

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5348.1 ft. ☐ S. 5466.7 ft. ☐ W.	Well Name MW114D
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Wel
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source NW¼ of SE¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 04 / 12 / 96 MM DD YY
Distance Well is From Waste/Source Boundary Within	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ■ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 790.12 ft. MSL

B. Well casing, top elevation 789.33 ft. MSL

C. Land surface elevation 786.96 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL 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 ☐ 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):

City of Franklin

E. Bentonite seal, top ____.__ ft. MSL or 1.0 ft.

F. Fine sand, top ____.__ ft. MSL or 101.0 ft.

G. Filter pack, top ____.__ ft. MSL or 104.0 ft.

H. Screen joint, top ____.__ ft. MSL or 106.0 ft.

I. Well bottom ____.__ ft. MSL or 111.0 ft.

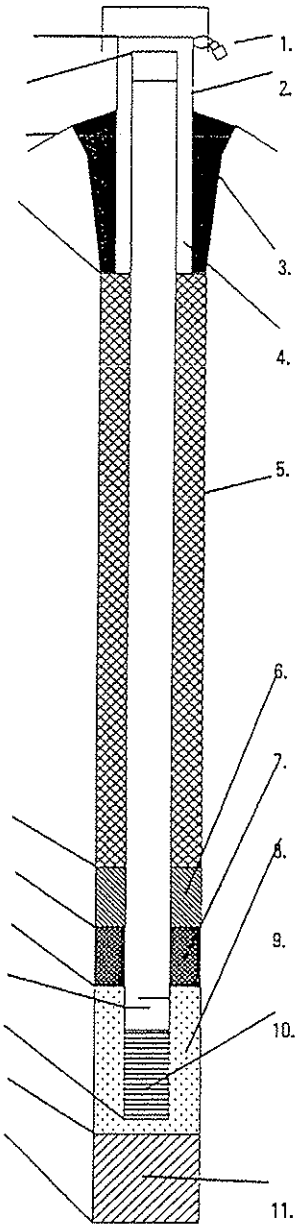
J. Filter pack, bottom ____.__ ft. MSL or 111.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 112.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 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
Annular space seal ☐
_____ 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. 200 gallon 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 1 bag

8. Filter pack material: Manufacturer, product, mesh size
a. Flat Rock Filter Sand #30
b. Volume added 6 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
_____ Other ☐

10. Screen Material: 2" PVC, Sched. 80
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 in
d. Slotted length: 5.0 ft

11. Backfill material (below filter pack): None ☐ 14
Clay Other ■

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

Signature Thomas E. Kolb

Firm RMT, 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. Adm. 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 $5,000 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.

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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. 4-9

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5334.5 ft. ☐ S. 5460.8 ft. ☐ W.	Well Name MW114C
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well '
Type of Well:Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source NW¼ of SE¼ of Sec.36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 04 / 10 / 96 M M D D Y Y
Distance Well is From Waste/Source Boundary Within	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ■ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 789.30 ft. MSL

B. Well casing, top elevation 788.64 ft. MSL

C. Land surface elevation 786.26 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 2.0 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 ☐ 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):
City of Franklin

E. Bentonite seal, top ____.__ ft. MSL or 2.0 ft.

F. Fine sand, top ____.__ ft. MSL or 137.0 ft.

G. Filter pack, top ____.__ ft. MSL or 139.0 ft.

H. Screen joint, top ____.__ ft. MSL or 141.0 ft.

I. Well bottom ____.__ ft. MSL or 146.0 ft.

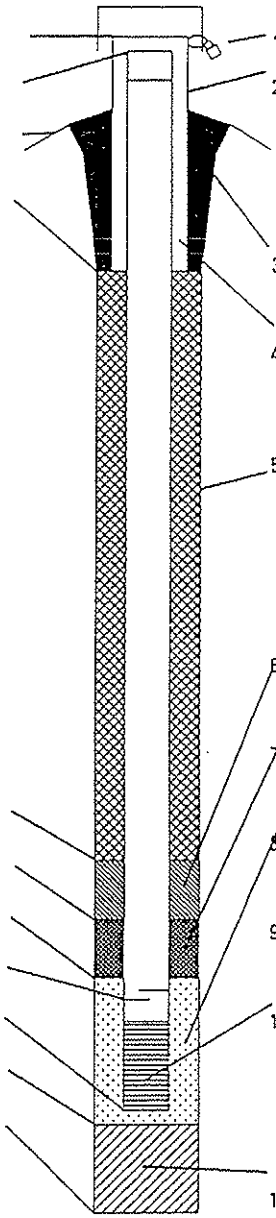
J. Filter pack, bottom ____.__ ft. MSL or 146.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 147.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 i
b. Length: 5.0
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
Annular space seal ☐
____ 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 1
d. __ % Bentonite..... Bentonite-cement grout 0
e. 270 gallon 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 1 bag

8. Filter pack material: Manufacturer, product, mesh size
a. Flat Rock Filter Sand #30
b. Volume added 4 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
____ Other ☐

10. Screen Material: 2" PVC, Sch. 80
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
____ Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 i
d. Slotted length: 5.0 i

11. Backfill material (below filter pack): None ☐ 14
Clay Other ■

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

Signature	Firm
Thomas E Kaal	RMT, 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. Adm. 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 $5,000 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.

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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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5342 ft. ☐ S. 5465 ft. ☐ W.	Well Name MW114A
Facility License, Permit or Monitoring Number Proposed site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well I.
Type of Well: Water Table Observation Well ■ 11 Piezometer ☐ 12	Section Location of Waste/Source NW¼ of SE¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 12 / 12 / 95 MM DD YY
Distance Well is From Waste/Source Boundary Within ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) Giles Engineering Jerry Etter
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 789.70 ft. MSL

B. Well casing, top elevation 789.41 ft. MSL

C. Land surface elevation 786.6 ft. MSL

D. Surface seal, bottom ____ ft. MSL or 2.0 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 ☐ 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):

Franklin Public Supply

E. Bentonite seal, top ____ ft. MSL or 0.0 ft.

F. Fine sand, top ____ ft. MSL or 2.0 ft.

G. Filter pack, top ____ ft. MSL or 3.0 ft.

H. Screen joint, top ____ ft. MSL or 5.0 ft.

I. Well bottom ____ ft. MSL or 15.0 ft.

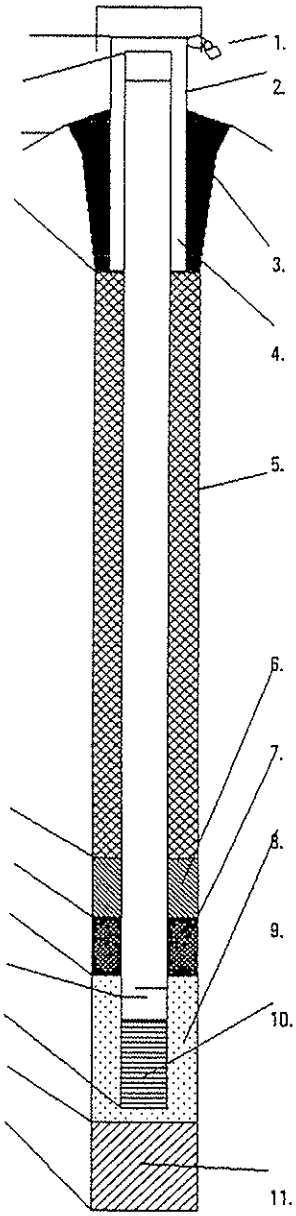
J. Filter pack, bottom ____ ft. MSL or 15.0 ft.

K. Borehole, bottom ____ ft. MSL or 15.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 ft
c. Material: Flush Mount 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 ☐

5. Annular space seal:
a. Granular Bentonite
b. ___ Lbs/gal mud weight.... Bentonite-sand slurry
c. ___ Lbs/gal mud weight..... Bentonite slurry ☐ 31
d. ___ % Bentonite..... Bentonite-cement grout
e. 1 bag 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. American Materials #45/55 flint sand
b. Volume added 1 bag

8. Filter pack material: Manufacturer, product, mesh size
a. American Materials #30 flint sand
b. Volume added 9 bags

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 TIMCO
c. Slot size: 0.01 in
d. Slotted length: 10.0 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 Thomas E. Keal | Firm RMT, 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. Adm. 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 $5,000 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.

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340

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. 4-9(

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5324.6 ft. ☐ S. 6045.8 ft. ☐ W.	Well Name MW108D
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source NW¼ of SE¼ of Sec.36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 04 / 24 / 96 MM DD YY
Distance Well is From Waste/Source Boundary Within	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ■ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 800.00 ft. MSL

B. Well casing, top elevation 799.16 ft. MSL

C. Land surface elevation 796.57 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL 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 ☐ 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):

City of Franklin

E. Bentonite seal, top ____.__ ft. MSL or 1.0 ft.

F. Fine sand, top ____.__ ft. MSL or 113.0 ft.

G. Filter pack, top ____.__ ft. MSL or 115.0 ft.

H. Screen joint, top ____.__ ft. MSL or 117.0 ft.

I. Well bottom ____.__ ft. MSL or 122.0 ft.

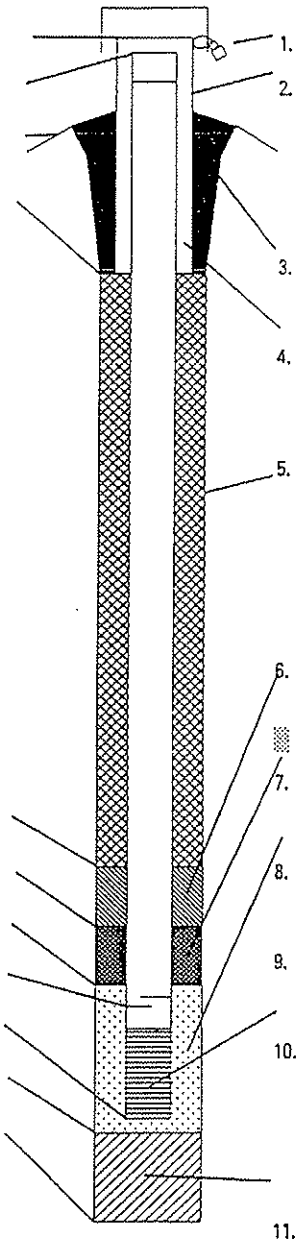
J. Filter pack, bottom ____.__ ft. MSL or 122.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 122.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 f
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
Annular space seal ☐
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. 200 gal 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 2 bags lb

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 6 bags lb

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
Other ☐

10. Screen Material: 2" Sch. 80 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 i
d. Slotted length: 5.0 f

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 RMT, 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. Adm. 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 $5,000 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.

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341

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. 4-9

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5327.8 ft. ☐ S. 6064.2 ft. ☐ W.	Well Name MW108C
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source NW¼ of SE¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 04 / 23 / 96 MM DD YY
Distance Well is From Waste/Source Boundary Within	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ■ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 800.44 ft. MSL

B. Well casing, top elevation 799.50 ft. MSL

C. Land surface elevation 796.49 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 0.0 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 ☐ 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):

City of Franklin

E. Bentonite seal, top ____.__ ft. MSL or 0.0 ft.

F. Fine sand, top ____.__ ft. MSL or 151.0 ft.

G. Filter pack, top ____.__ ft. MSL or 153.0 ft.

H. Screen joint, top ____.__ ft. MSL or 155.0 ft.

I. Well bottom ____.__ ft. MSL or 160.0 ft.

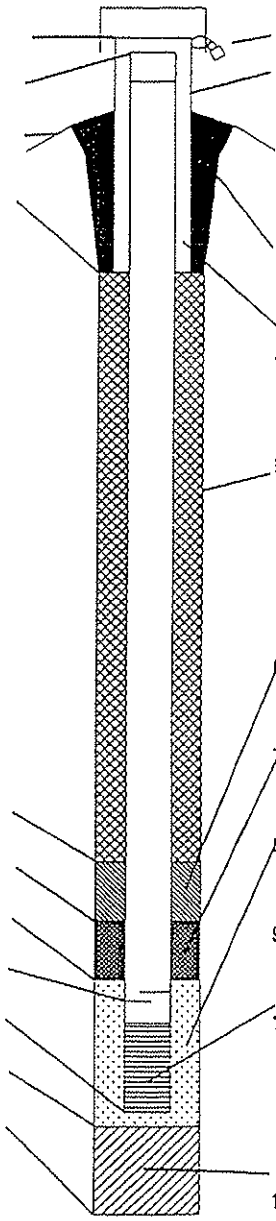
J. Filter pack, bottom ____.__ ft. MSL or 160.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 160.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0
b. Length: 5.0
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
Annular space seal ☐
____ 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 ☐ 1
d. __ % Bentonite..... Bentonite-cement grout ☐ 0
e. 300 gal 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 2 bags lb

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 4 bags lb

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
____ Other ☐

10. Screen Material: 2" Sch. 80 PVC
a. Screen type: Factory cut ■ 11
____ Continuous slot ☐ 01
Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006
d. Slotted length: 5.0

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 RMT, 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 ..., ... Adm. 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 $5,000 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.

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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. 4-9

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5322.8 ft. ☐ S. 6033.7 ft. ☐ W.	Well Name MW108A
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR We. er
Type of Well: Water Table Observation Well ■ 11 Piezometer ☐ 12	Section Location of Waste/Source ■ E. NW¼ of SE¼ of Sec.36, T 5N, R20 ☐ W.	Date Well Installed 04 / 25 / 96 MM DD YY
Distance Well is From Waste/Source Boundary Within	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ■ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 800.08 ft. MSL

B. Well casing, top elevation 799.36 ft. MSL

C. Land surface elevation 796.23 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 0.0 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 ☐ 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 ____.__ ft. MSL or 0.0 ft.

F. Fine sand, top ____.__ ft. MSL or 2.0 ft.

G. Filter pack, top ____.__ ft. MSL or 3.0 ft.

H. Screen joint, top ____.__ ft. MSL or 5.0 ft.

I. Well bottom ____.__ ft. MSL or 15.0 ft.

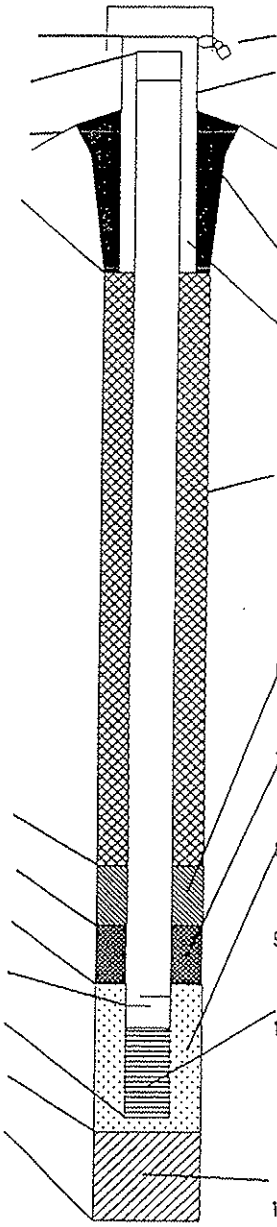
J. Filter pack, bottom ____.__ ft. MSL or 15.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 15.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 i.
b. Length: 5.0 f
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
Annular space seal ☐
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. 1/2 bag 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. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 8 bags

9. Well casing: Flush threaded PVC schedule 40 ■ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐

10. Screen Material: 2" Sch. 40 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 in
d. Slotted length: 10.0 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 RMT, 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. Adm. 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 $5,000 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.

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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. 4-9

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4417 ft. ☐ S. 5463 ft. ☐ W.	Well Name MW107A
Facility License, Permit or Monitoring Number Proposed site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N. 2,510,000 ft. E.	Wis. Unique Well Number ____ DNR Well I ____
Type of Well: Water Table Observation Well ■ 11 Piezometer ☐ 12	Section Location of Waste/Source SW¼ of SE¼ of Sec. 36, T 5N, R 20 ■ E. ☐ W.	Date Well Installed 12 / 18 / 95 MM DD YY
Distance Well is From Waste/Source Boundary 75 ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ■ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) Giles Engineering Jerry Etter
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 786.10 ft. MSL

B. Well casing, top elevation 785.78 ft. MSL

C. Land surface elevation 783.2 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 2.0 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 ☐ 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):

Franklin Public Supply

E. Bentonite seal, top ____.__ ft. MSL or 0.0 ft.

F. Fine sand, top ____.__ ft. MSL or 2.0 ft.

G. Filter pack, top ____.__ ft. MSL or 3.0 ft.

H. Screen joint, top ____.__ ft. MSL or 5.0 ft.

I. Well bottom ____.__ ft. MSL or 15.0 ft.

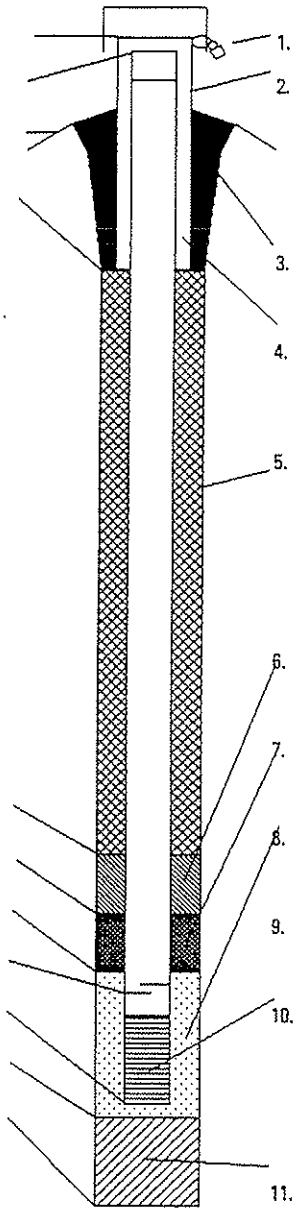
J. Filter pack, bottom ____.__ ft. MSL or 15.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 16.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 ft
c. Material: Flush Mount 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 ☐

5. Annular space seal:
a. Granular Bentonite ■ 33
b. __ Lbs/gal mud weight.... Bentonite-sand slurry ☐ 35
c. __ Lbs/gal mud weight..... Bentonite slurry
d. __ % Bentonite..... Bentonite-cement grout
e. 1 bag 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. American Materials #45/55 flint sand
b. Volume added 1 bag

8. Filter pack material: Manufacturer, product, mesh size
a. American Materials #30 flint sand
b. Volume added 9 bags

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 TIMCO
c. Slot size: 0.01 in
d. Slotted length: 10.0 ft

11. Backfill material (below filter pack): None ☐ 14
Chipped bentonite Other ■

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

Signature Thomas E. Kral | Firm RMT, 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. Adm. 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 $5,000 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.

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344

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. 4-9

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5316.4 ft. ☐ S. 4641.4 ft. ☐ W.	Well Name MW106D
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ Long. ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source NE¼ of SW¼ of Sec.36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 05 / 01 / 96 MM DD YY
Distance Well is From Waste/Source Boundary Within	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ■ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 778.73 ft. MSL

B. Well casing, top elevation 778.16 ft. MSL

C. Land surface elevation 775.41 ft. MSL

D. Surface seal, bottom ____ ft. MSL 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 ☐ 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 ____ ft. MSL or 1.0 ft.

F. Fine sand, top ____ ft. MSL or 81.0 ft.

G. Filter pack, top ____ ft. MSL or 83.0 ft.

H. Screen joint, top ____ ft. MSL or 85.0 ft.

I. Well bottom ____ ft. MSL or 90.0 ft.

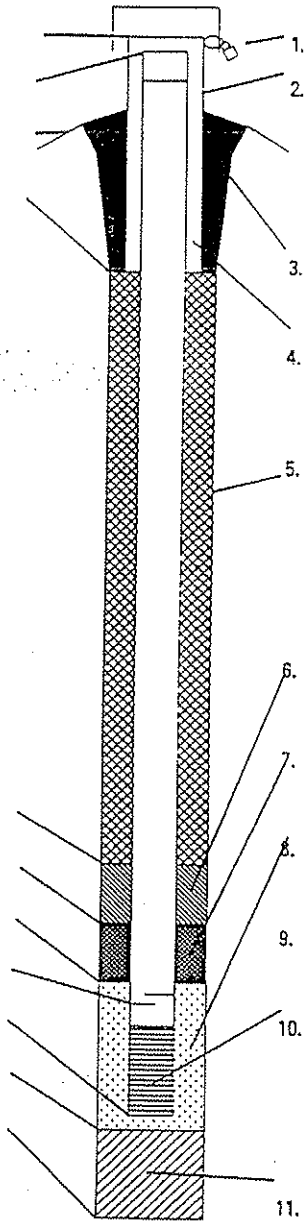
J. Filter pack, bottom ____ ft. MSL or 90.5 ft.

K. Borehole, bottom ____ ft. MSL or 90.5 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 i
b. Length: 5.0 f
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
Annular space seal ☐
Other ☐

5. Annular space seal:
a. Granular Bentonite 3
b. __ Lbs/gal mud weight.... Bentonite-sand slurry 5
c. __ Lbs/gal mud weight..... Bentonite slurry ■ 31
d. __ % Bentonite..... Bentonite-cement grout ☐ 50
e. 120 gallon 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 7 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
Other ☐

10. Screen Material: 2" dia. Sch 80 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 i
d. Slotted length: 5.0 f

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 RMT, 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 ..., Wis. Adm. 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 $5,000 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.

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345

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. 4-9

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5315.7 ft. ☐ S. 4617.3 ft. ☐ W.	Well Name MW106C
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source NE¼ of SW¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 05 / 01 / 96 MM DD YY
Distance Well is From Waste/Source Boundary Within	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ■ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 778.79 ft. MSL

B. Well casing, top elevation 778.10 ft. MSL

C. Land surface elevation 775.17 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL 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 ☐ 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 ____.__ ft. MSL or 1.0 ft.

F. Fine sand, top ____.__ ft. MSL or 118.0 ft.

G. Filter pack, top ____.__ ft. MSL or 120.0 ft.

H. Screen joint, top ____.__ ft. MSL or 122.0 ft.

I. Well bottom ____.__ ft. MSL or 127.0 ft.

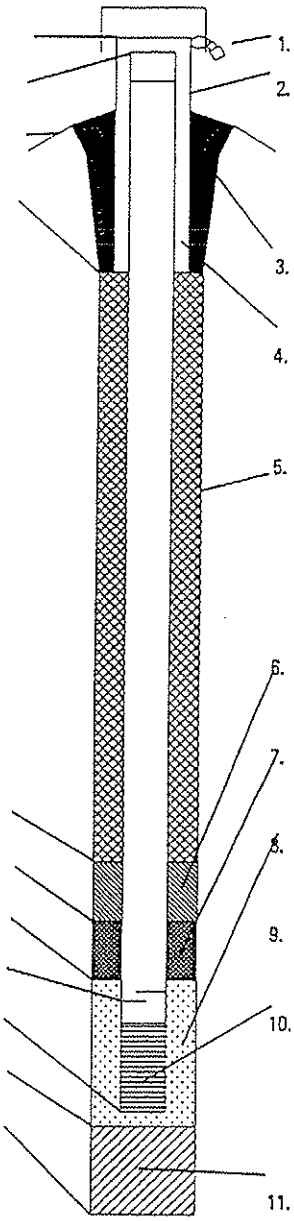
J. Filter pack, bottom ____.__ ft. MSL or 127.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 127.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0
b. Length: 5.0
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
Annular space seal ☐
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 ☐ 1
d. __ % Bentonite..... Bentonite-cement grout ☐ 30
e. 240 gallon 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 4 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 6 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
Other ☐

10. Screen Material: 2" Sch 80 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 i
d. Slotted length: 5.0 f

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 RMT, 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. Adm. 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 $5,000 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.

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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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5300 ft. ☐ S. 4639 ft. ☐ W.	Well Name MW106B
Facility License, Permit or Monitoring Number Proposed site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number ____ DNR Well ____
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source NW¼ of SE¼ of Sec. 36, T 5N, R 20 ■ E. ☐ W.	Date Well Installed 12 / 22 / 95 MM DD YY
Distance Well is From Waste/Source Boundary Within ____ ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) Giles Engineering Jerry Etter
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 778.58 ft. MSL

B. Well casing, top elevation 778.13 ft. MSL

C. Land surface elevation 775.8 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or ___.__ 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):

Franklin Public Supply

E. Bentonite seal, top ____.__ ft. MSL or 33.0 ft.

F. Fine sand, top ____.__ ft. MSL or 36.0 ft.

G. Filter pack, top ____.__ ft. MSL or 38.0 ft.

H. Screen joint, top ____.__ ft. MSL or 40.0 ft.

I. Well bottom ____.__ ft. MSL or 45.0 ft.

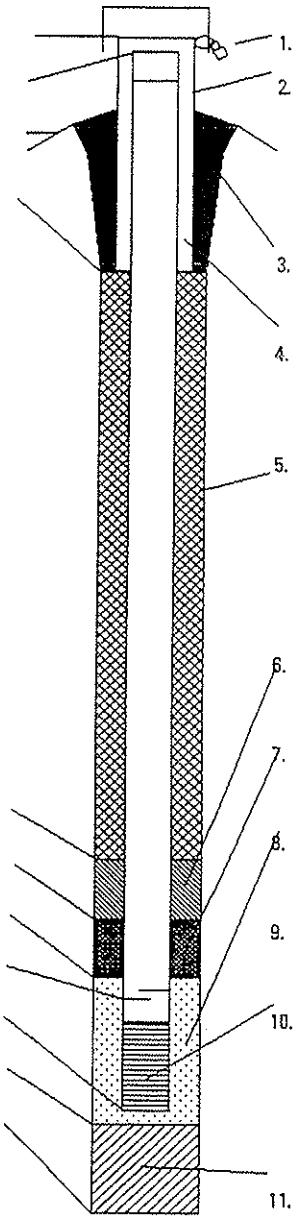
J. Filter pack, bottom ____.__ ft. MSL or 45.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 45.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 ft
c. Material: Flush Mount — 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 ☐

5. Annular space seal:
a. Granular Bentonite
b. ___ Lbs/gal mud weight....
c. ___ Lbs/gal mud weight.....
d. ___ % Bentonite.....
e. 15 bags volume added for any of the above
f. How installed:
Bentonite-sand slurry
Bentonite slurry ☐ 31
Bentonite-cement grout ☐ 50
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. American Materials #45/55 flint sand
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. American Materials #30 flint sand
b. Volume added 5 bags

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 TIMCO
c. Slot size: 0.01 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 Thomas E. Kral | Firm RMT, 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. Adm. 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 $5,000 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.

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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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5301 ft. ☐ S. 4614 ft. ☐ W.	Well Name MW106A
Facility License, Permit or Monitoring Number Proposed site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number ____ DNR Well Number ____
Type of Well: Water Table Observation Well ■ 11 Piezometer ☐ 12	Section Location of Waste/Source NW¼ of SE¼ of Sec. 36, T 5N, R 20 ■ E. ☐ W.	Date Well Installed 12 / 22 / 95 MM DD YY
Distance Well is From Waste/Source Boundary Within ____ ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) Giles Engineering Jerry Etter
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 778.57 ft. MSL

B. Well casing, top elevation 778.13 ft. MSL

C. Land surface elevation 775.6 ft. MSL

D. Surface seal, bottom ____ ft. MSL or 2.0 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 ☐ 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):

Franklin Public Supply

E. Bentonite seal, top ____ ft. MSL or 0.0 ft.

F. Fine sand, top ____ ft. MSL or 2.0 ft.

G. Filter pack, top ____ ft. MSL or 3.0 ft.

H. Screen joint, top ____ ft. MSL or 5.0 ft.

I. Well bottom ____ ft. MSL or 15.0 ft.

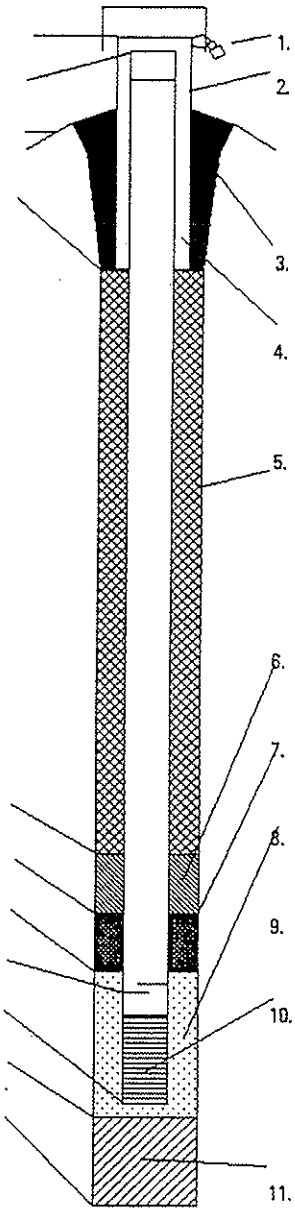
J. Filter pack, bottom ____ ft. MSL or 15.0 ft.

K. Borehole, bottom ____ ft. MSL or 15.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Flush Mount
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 ☐

5. Annular space seal:
a. Granular Bentonite ■ 33
b. ___ Lbs/gal mud weight.... Bentonite-sand slurry ☐
c. ___ Lbs/gal mud weight..... Bentonite slurry ☐
d. ___ % Bentonite..... Bentonite-cement grout ☐
e. 1 bag 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. American Materials #45/55 flint sand
b. Volume added 1 bag

8. Filter pack material: Manufacturer, product, mesh size
a. American Materials #30 flint sand
b. Volume added 9 bags

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 TIMCO
c. Slot size: 0.01 in.
d. Slotted length: 10.0 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 Thomas G. Kal

Firm RMT, 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 14.., ... Adm. 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 $5,000 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.

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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. 4-9

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4325 ft. ☐ S. 4630 ft. ☐ W.	Well Name MW104B
Facility License, Permit or Monitoring Number Proposed site	Grid Origin Location Lat. ___ Long. ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number ___ DNR Well ___
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source SW¼ of SE¼ of Sec.36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 12 / 18 / 95 MM DD YY
Distance Well is From Waste/Source Boundary 170 ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ■ Sidegradient D ☐ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) Giles Engineering Jerry Etter
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 784.78 ft. MSL

B. Well casing, top elevation 784.50 ft. MSL

C. Land surface elevation 781.8 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ___ 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):

Franklin Public Supply

E. Bentonite seal, top ____ ft. MSL or 33.0 ft.

F. Fine sand, top ____ ft. MSL or 36.0 ft.

G. Filter pack, top ____ ft. MSL or 38.0 ft.

H. Screen joint, top ____ ft. MSL or 40.0 ft.

I. Well bottom ____ ft. MSL or 45.0 ft.

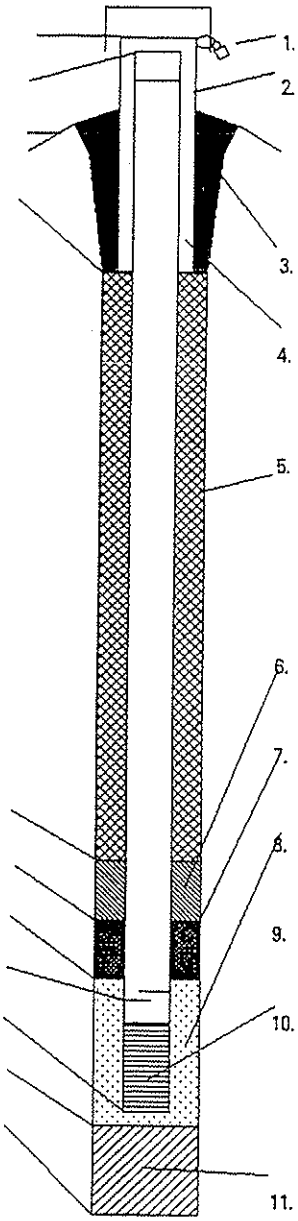
J. Filter pack, bottom ____ ft. MSL or 45.0 ft.

K. Borehole, bottom ____ ft. MSL or 45.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 ft
c. Material: Flush Mount 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 ☐

5. Annular space seal:
a. Granular Bentonite ☐ 3
b. ___ Lbs/gal mud weight.... Bentonite-sand slurry ☐
c. ___ Lbs/gal mud weight..... Bentonite slurry ☐ 31
d. ___ % Bentonite..... Bentonite-cement grout ☐ 50
e. 15 bags 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. American Materials #45/55 flint sand
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. American Materials #30 flint sand
b. Volume added 5 bags

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 TIMCO
c. Slot size: 0.01 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 Thomas E. Kaul | Firm RMT, 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. Adm. 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 $5,000 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.

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349

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. 4-9

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4328 ft. ☐ S. 4607 ft. ☐ W.	Well Name MW104A
Facility License, Permit or Monitoring Number Proposed site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number ____ DNR Well ____
Type of Well: Water Table Observation Well ■ 11 Piezometer ☐ 12	Section Location of Waste/Source SW¼ of SE¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 12 / 18 / 95 MM DD YY
Distance Well is From Waste/Source Boundary 170 ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ■ Sidegradient D ☐ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) Giles Engineering Jerry Etter
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 784.37 ft. MSL

B. Well casing, top elevation 784.14 ft. MSL

C. Land surface elevation 781.5 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 2.0 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 ☐ 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):

Franklin Public Supply

E. Bentonite seal, top ____.__ ft. MSL or 0.0 ft.

F. Fine sand, top ____.__ ft. MSL or 2.0 ft.

G. Filter pack, top ____.__ ft. MSL or 3.0 ft.

H. Screen joint, top ____.__ ft. MSL or 5.0 ft.

I. Well bottom ____.__ ft. MSL or 15.0 ft.

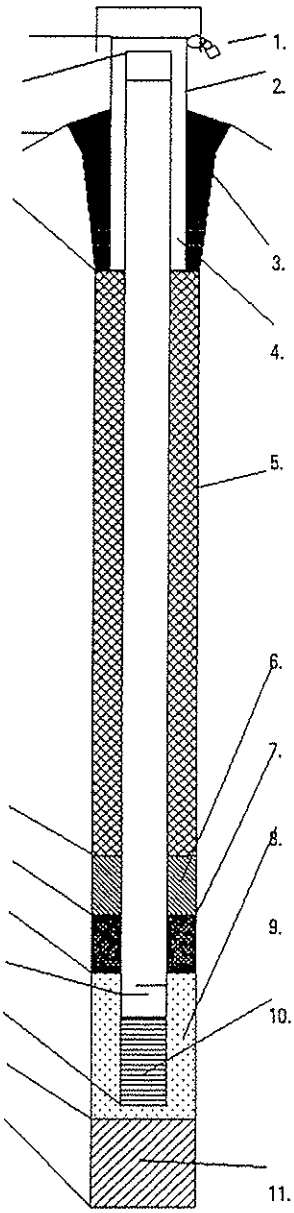
J. Filter pack, bottom ____.__ ft. MSL or 15.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 15.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0
b. Length: 5.0
c. Material: Flush Mount 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 ☐

5. Annular space seal: a. Granular Bentonite ■ 33
b. __ Lbs/gal mud weight.... Bentonite-sand slurry ☐ 35
c. __ Lbs/gal mud weight..... Bentonite slurry ☐ 11
d. __ % Bentonite..... Bentonite-cement grout ☐ 10
e. 1 bag 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. American Materials #45/55 flint sand
b. Volume added 1 bag

8. Filter pack material: Manufacturer, product, mesh size
a. American Materials #30 flint sand
b. Volume added 8 bags

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 TIMCO
c. Slot size: 0.01
d. Slotted length: 10.0

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 Thomas G. Kuel

Firm RMT, 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. Adm. 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 $5,000 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.

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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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4683.7 ft. ☐ S. 5914.8 ft. ☐ W.	Well Name MW103D
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well
Type of Well:Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source NW¼ of SE¼ of Sec.36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 04 / 16 / 96 M M D D Y Y
Distance Well is From Waste/Source Boundary Within	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ■ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 791.31 ft. MSL

B. Well casing, top elevation 790.59 ft. MSL

C. Land surface elevation 788.09 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL 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 ☐ 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):

City of Franklin

E. Bentonite seal, top ____.__ ft. MSL or 1.0 ft.

F. Fine sand, top ____.__ ft. MSL or 95.0 ft.

G. Filter pack, top ____.__ ft. MSL or 97.0 ft.

H. Screen joint, top ____.__ ft. MSL or 99.0 ft.

I. Well bottom ____.__ ft. MSL or 104.0 ft.

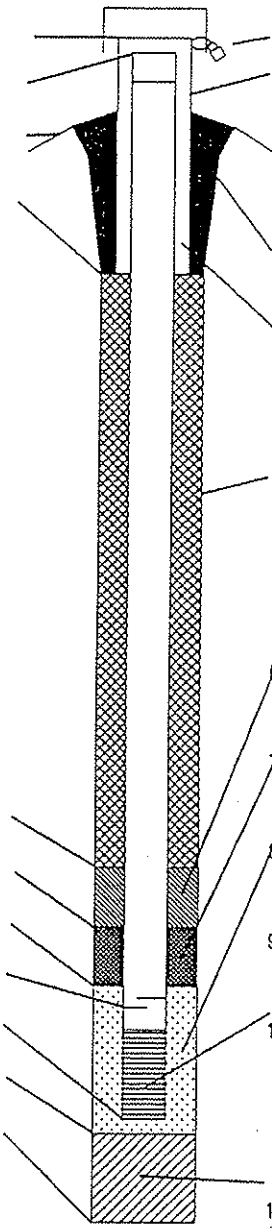
J. Filter pack, bottom ____.__ ft. MSL or 104.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 105.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 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
Annular space seal ☐
____ Other ☐

5. Annular space seal: a. Granular Bentonite ☐ 33
b. __ Lbs/gal mud weight.... Bentonite-sand slurry
c. __ Lbs/gal mud weight..... Bentonite slurry
d. __ % Bentonite..... Bentonite-cement grout ☐ 50
e. 180 gallon 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Flat Rock Filter Sand #30
b. Volume added 5 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
____ Other ☐

10. Screen Material: 2" Sch. 80 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
____ Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 in
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 14
Clay Other ■

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

Signature [signature] Firm RMT, 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. Adm. 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 $5,000 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.

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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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4680 ft. ☐ S. 5942 ft. ☐ W.	Well Name MW103C
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ Long. ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number ____ DNR Well N ____
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source ■ E. SE¼ of SE¼ of Sec.36, T 5N, R20 ☐ W.	Date Well Installed 12 / 21 / 95 M M D D Y Y
Distance Well is From Waste/Source Boundary Within ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) Giles Engineering Jerry Etter
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 791.23 ft. MSL

B. Well casing, top elevation 791.07 ft. MSL

C. Land surface elevation 788.2 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 2.0 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 ☐ 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 Water

17. Source of water (attach analysis):

Franklin Public Supply

E. Bentonite seal, top ____.__ ft. MSL or 129.8 ft.

F. Fine sand, top ____.__ ft. MSL or 135.6 ft.

G. Filter pack, top ____.__ ft. MSL or 137.8 ft.

H. Screen joint, top ____.__ ft. MSL or 140.0 ft.

I. Well bottom ____.__ ft. MSL or 145.0 ft.

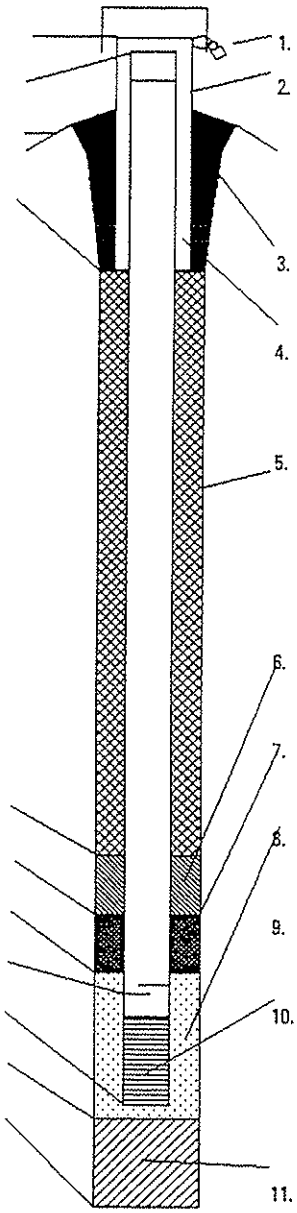
J. Filter pack, bottom ____.__ ft. MSL or 146.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 209.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 1.88 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 ft
c. Material: Flush Mount 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 ☐

5. Annular space seal: a. Granular Bentonite ■ 33
b. __ Lbs/gal mud weight.... Bentonite-sand slurry ☐ 35
c. __ Lbs/gal mud weight..... Bentonite slurry ☐
d. __ % Bentonite..... Bentonite-cement grout ☐
e. 280 gal 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. American Materials #45/55 flint sand
b. Volume added 1 bag

8. Filter pack material: Manufacturer, product, mesh size
a. American Materials #30 flint sand
b. Volume added 12 bags

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 TIMCO
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 14
Chipped bentonite (tremied) Other ■

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

Signature Thomas E Kaal | Firm RMT, 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. Adm. 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 $5,000 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.

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352

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 Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4682 ft. ☐ S. 5955 ft. ☐ W.	Well Name MW103B
Facility License, Permit or Monitoring Number Proposed site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number ____ DNR Well ____
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source SE¼ of SE¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 12 / 22 / 95 MM DD YY
Distance Well is From Waste/Source Boundary Within ____ ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) Giles Engineering Jerry Etter
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 791.41 ft. MSL

B. Well casing, top elevation 791.01 ft. MSL

C. Land surface elevation 788.2 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 2.0 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 ☐ 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):

Franklin Public Supply

E. Bentonite seal, top ____.__ ft. MSL or 33.0 ft.

F. Fine sand, top ____.__ ft. MSL or 36.0 ft.

G. Filter pack, top ____.__ ft. MSL or 38.0 ft.

H. Screen joint, top ____.__ ft. MSL or 40.0 ft.

I. Well bottom ____.__ ft. MSL or 45.0 ft.

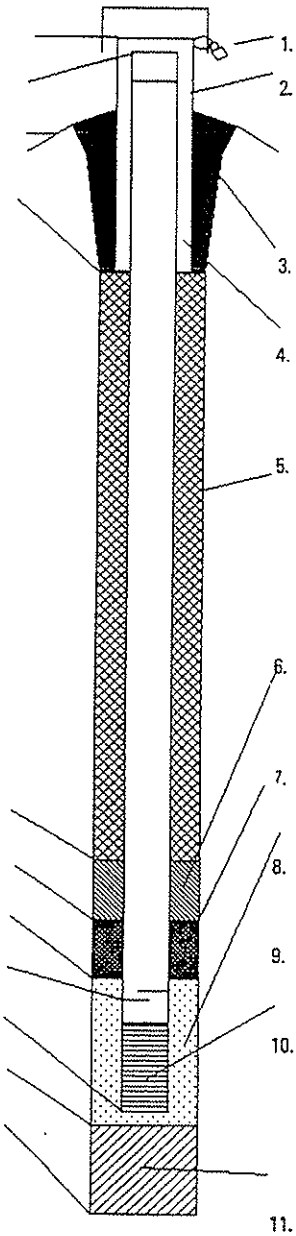
J. Filter pack, bottom ____.__ ft. MSL or 45.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 45.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 ft
c. Material: Flush Mount 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 ☐

5. Annular space seal:
a. Granular Bentonite ☐
b. ___ Lbs/gal mud weight.... Bentonite-sand slurry ☐
c. ___ Lbs/gal mud weight..... Bentonite slurry ☐ 31
d. ___ % Bentonite..... Bentonite-cement grout ☐ 50
e. 14 bags 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. American Materials #45/55 flint sand
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. American Materials #30 flint sand
b. Volume added 6 bags

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 TIMCO
c. Slot size: 0.01 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 Thomas G. Kick

Firm RMT, Inc.

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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. 4-9

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 4681 ft. ☐ S. 5928 ft. ☐ W.	Well Name MW103A
Facility License, Permit or Monitoring Number Proposed site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number ____ DNR Well N ____
Type of Well: Water Table Observation Well ■ 11 Piezometer ☐ 12	Section Location of Waste/Source SE¼ of SE¼ of Sec. 36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 12 / 22 / 95 M M D D Y Y
Distance Well is From Waste/Source Boundary Within ____ ft.	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ☐ Not Known	Well Installed By: (Persons' Name and Firm) Giles Engineering Jerry Etter
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 792.06 ft. MSL

B. Well casing, top elevation 791.71 ft. MSL

C. Land surface elevation 788.6 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 2.0 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 ☐ 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):

Franklin Public Supply

E. Bentonite seal, top ____.__ ft. MSL or 0.0 ft.

F. Fine sand, top ____.__ ft. MSL or 2.0 ft.

G. Filter pack, top ____.__ ft. MSL or 3.0 ft.

H. Screen joint, top ____.__ ft. MSL or 5.0 ft.

I. Well bottom ____.__ ft. MSL or 15.0 ft.

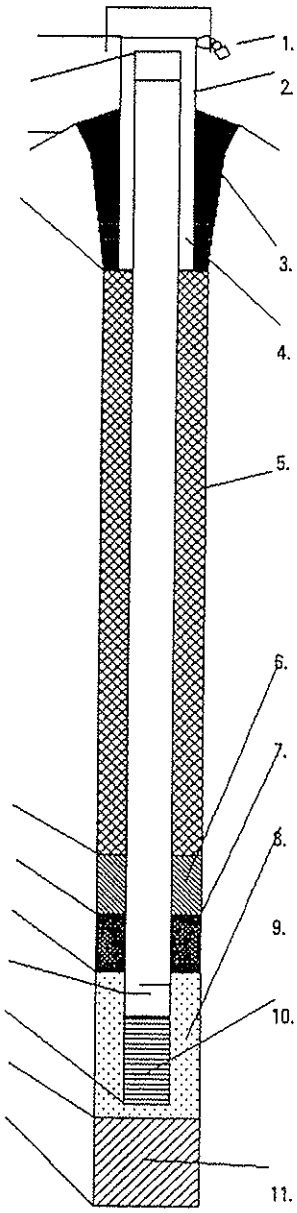
J. Filter pack, bottom ____.__ ft. MSL or 15.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 15.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 5.0 ft
c. Material: Flush Mount
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 ☐

5. Annular space seal:
a. Granular Bentonite ■ 33
b. ___ Lbs/gal mud weight.... Bentonite-sand slurry ☐
c. ___ Lbs/gal mud weight..... Bentonite slurry
d. ___ % Bentonite..... Bentonite-cement grout
e. 1 bag 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. American Materials #45/55 flint sand
b. Volume added 1 bag

8. Filter pack material: Manufacturer, product, mesh size
a. American Materials #30 flint sand
b. Volume added 9 bags

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 TIMCO
c. Slot size: 0.01 in
d. Slotted length: 10.0 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 Thomas E. Kral
Firm RMT, 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. Adm. 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 $5,000 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.

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354

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. 4-9

Facility/Project Name: EPI	Local Grid Location of Well: 316519 ft. ☒ N ☐ S, 2514908 ft. ☒ E ☐ W	Well Name: MW-19A
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. ___ Long. ___ or St. Plane ___ ft. N, ___ ft. E.	Wis. Unique Well Number / DNR Well Numb: _____
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	Section Location of Waste/Source: SW 1/4 of NE 1/4 of Sec. 36, T. 5 N, R. 20 ☒ E ☐ W	Date Well Installed: 06/04/91 (m m d d y y)
Distance Well Is From Waste/Source Boundary: 130 ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient, s ☐ Sidegradient, d ☒ Downgradient, n ☐ Not Known	Well Installed By: (Person's Name and Firm): Bill Zamow, WTD
Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No		

A. Protective pipe, top elevation 789.4 ft. MSL

B. Well casing, top elevation 789.06 ft. MSL

C. Land surface elevation 787.2 ft. MSL

D. Surface seal, bottom _____ ft. MSL or 2 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 N/A

17. Source of water (attach analysis): N/A

E. Bentonite seal, top _____ ft. MSL or 2.0 ft.

F. Fine sand, top _____ ft. MSL or 4.0 ft.

G. Filter pack, top _____ ft. MSL or 4.5 ft.

H. Screen joint, top _____ ft. MSL or 5.0 ft.

I. Well bottom _____ ft. MSL or 15.0 ft.

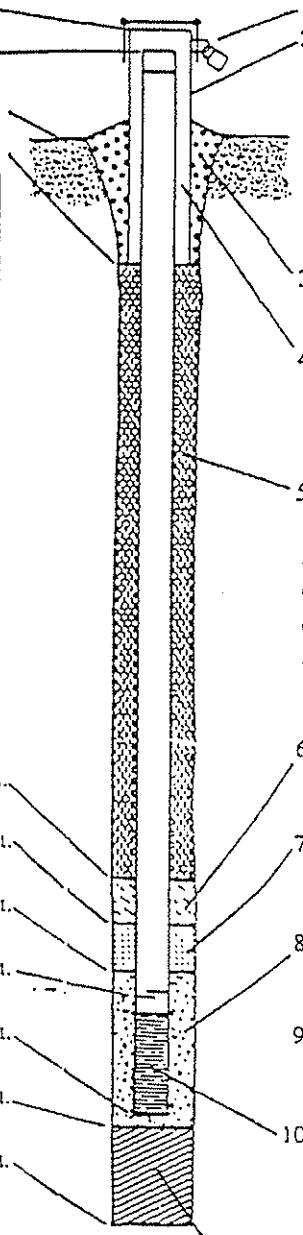
J. Filter pack, bottom _____ ft. MSL or 15.0 ft.

K. Borehole, bottom _____ ft. MSL or 16.0 ft.

L. Borehole, diameter 8.2 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0
b. Length: 4.5
c. Material: Steel ☒ 0; Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☒ 3; Concrete ☐ 0; Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☒ 3; Annular space seal ☐; Other ☐ _____

5. Annular space seal: a. Granular Bentonite ☐ 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 3
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 5
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐; Tremie pumped ☐ 0; Gravity ☒ 0

6. Bentonite seal: a. Bentonite granules ☐ 3
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 3
c. Bentonite chips N/A Other ☒

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name and mesh s
a. Red Flint
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 2; Flush threaded PVC schedule 80 ☐ 2; Other ☐ _____

10. Screen material: Sch 40 PVC
a. Screen type: Factory cut ☒ 1; Continuous slot ☐ 0; Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.010
d. Slotted length: 10.0

11. Backfill material (below filter pack): None ☐ 1; Other ☒
Gravel in

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

Signature: [signature] | Firm: RMT, 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. Stat 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

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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. 4-9

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5784.9 ft. ☐ S. 5915.4 ft. ☐ W.	Well Name MW18D
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Wel er
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source NW¼ of SE¼ of Sec.36, T 5N, R20 ■ E. ☐ W.	Date Well Installed 05 / 07 / 96 M M D D Y Y
Distance Well is From Waste/Source Boundary Within	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ■ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Robert Dreyer
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 803.96 ft. MSL

B. Well casing, top elevation 803.38 ft. MSL

C. Land surface elevation 800.80 ft. MSL

D. Surface seal, bottom ____ ft. MSL 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 ☐ 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):

City of Franklin

E. Bentonite seal, top ____ ft. MSL or 1.0 ft.

F. Fine sand, top ____ ft. MSL or 113.0 ft.

G. Filter pack, top ____ ft. MSL or 115.0 ft.

H. Screen joint, top ____ ft. MSL or 117.0 ft.

I. Well bottom ____ ft. MSL or 122.0 ft.

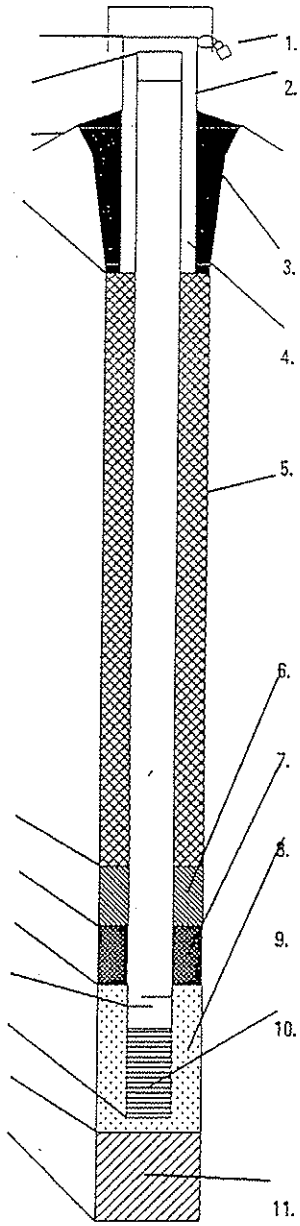
J. Filter pack, bottom ____ ft. MSL or 122.0 ft.

K. Borehole, bottom ____ ft. MSL or 122.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 i
b. Length: 5.0 f
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
Annular space seal ☐
Other ☐

5. Annular space seal:
a. Granular Bentonite 3
b. __ Lbs/gal mud weight.... Bentonite-sand slurry 35
c. __ Lbs/gal mud weight..... Bentonite slurry ■ 31
d. __ % Bentonite..... Bentonite-cement grout ☐ 50
e. 200 gal 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 6 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
Other ☐

10. Screen Material: 2" Sch 80 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 i
d. Slotted length: 5.0 f

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 Thomas E Kiel | Firm RMT, Inc.

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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. 4-9

Facility/Project Name Superior Emerald Park Landfill, Inc.	Local Grid Location of Well ■ N. ■ E. 5784.5 ft. ☐ S. 5897.2 ft. ☐ W.	Well Name MW18C
Facility License, Permit or Monitoring Number Proposed Site	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane 310,000 ft. N, 2,510,000 ft. E.	Wis. Unique Well Number DNR Well
Type of Well: Water Table Observation Well ☐ 11 Piezometer ■ 12	Section Location of Waste/Source NW¼ of SE¼ of Sec. 36, T 5N, R 20 ■ E. ☐ W.	Date Well Installed 05 / 09 / 96 MM DD YY
Distance Well is From Waste/Source Boundary Within	Location of Well Relative to Waste/Source U ☐ Upgradient S ☐ Sidegradient D ☐ Downgradient N ■ Not Known	Well Installed By: (Persons' Name and Firm) MATECO Drilling Steve Rempulski
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 803.83 ft. MSL

B. Well casing, top elevation 803.30 ft. MSL

C. Land surface elevation 800.67 ft. MSL

D. Surface seal, bottom ____.__ ft. MSL or 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 ☐ 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):
City of Franklin

E. Bentonite seal, top ____.__ ft. MSL or 0.__ ft.

F. Fine sand, top ____.__ ft. MSL or 146.0 ft.

G. Filter pack, top ____.__ ft. MSL or 148.0 ft.

H. Screen joint, top ____.__ ft. MSL or 150.0 ft.

I. Well bottom ____.__ ft. MSL or 155.0 ft.

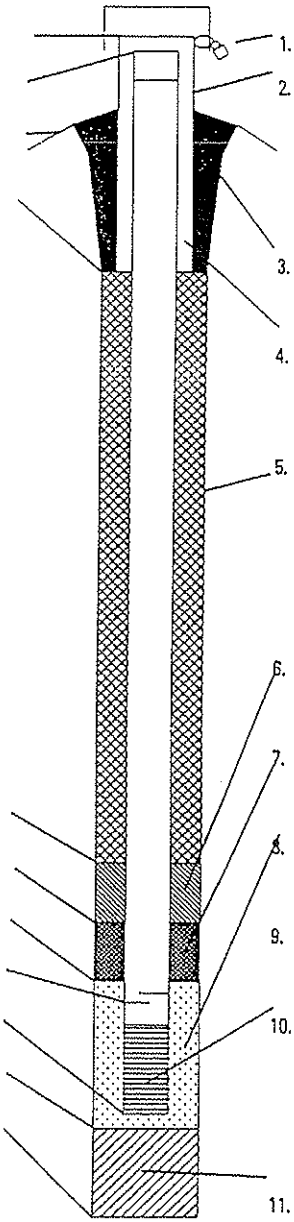
J. Filter pack, bottom ____.__ ft. MSL or 155.0 ft.

K. Borehole, bottom ____.__ ft. MSL or 155.0 ft.

L. Borehole, diameter 9.0 in.

M. O.D. well casing 2.20 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 i
b. Length: 5.0 f
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
Annular space seal ☐
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
d. __ % Bentonite..... Bentonite-cement grout 50
e. 270 gallon 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. Quik Grout Bentonite Slurry Other ■

7. Fine sand material: Manufacturer, product name, mesh size
a. Red Flint Filter Sand #35/45
b. Volume added 2 bags

8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint Filter Sand #30
b. Volume added 7 bags

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ■ 24
Other ☐

10. Screen Material: 2" Sch 80 PVC
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Diedrich
c. Slot size: 0.006 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 Thomas E Kral
Firm RMT, Inc.

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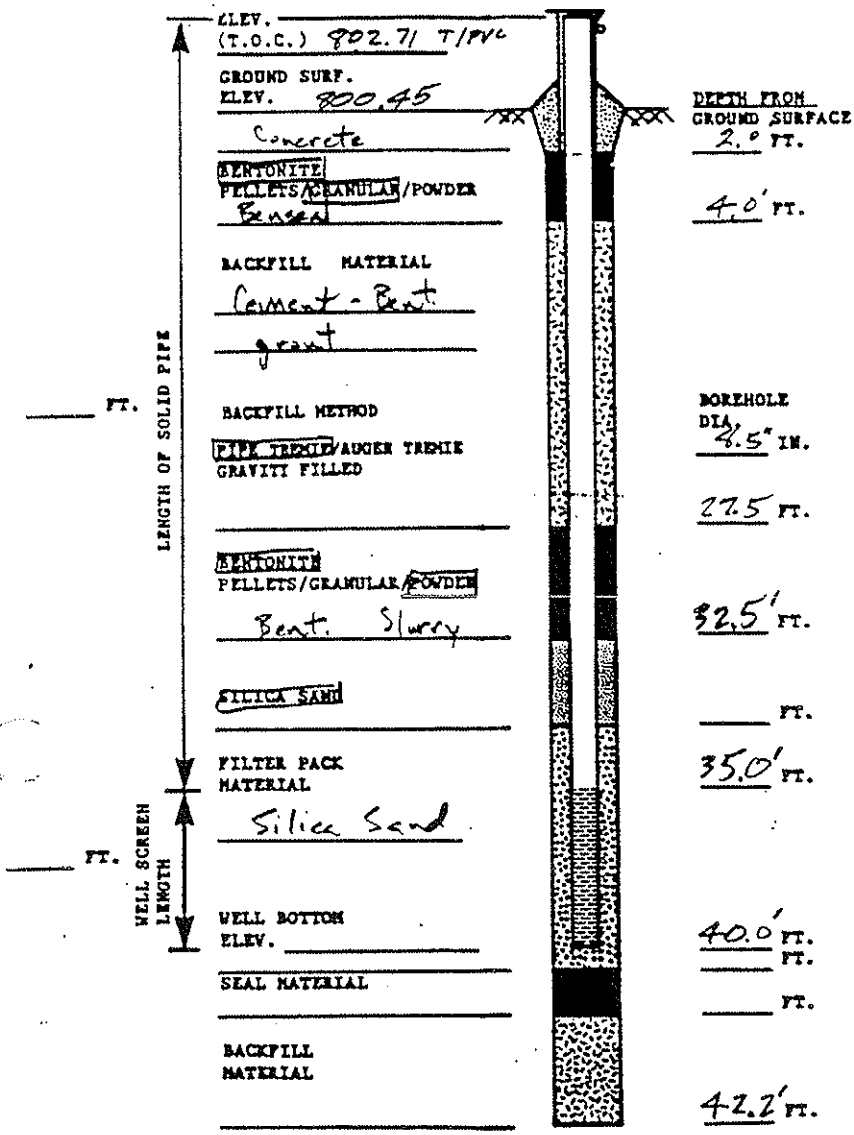
RMT

DIAGRAM
(R 11-85)

PROJECT NAME: EPI NO. 159703
WELL NO. MW-18B
DATE INSTALLED 4/14/88



1) CASING DETAILS

A) TYPE OF PIPE:

(PVC), STAINLESS, TEFLON, OTHER _____

PIPE SCHEDULE 40

B) TYPE OF PIPE JOINTS;

COUPLINGS, (THREADED) (~~WELDED~~), OTHER _____

C) WAS SOLVENT USED? YES OR (NO)

D) TYPE OF WELL SCREEN:

(PVC), STAINLESS, TEFLON, OTHER _____

E) WELL SCREEN SLOT SIZE .01"

F) PIPE DIA: ID IN. .17' OD IN. .19'

G) INSTALLED PROTECTOR PIPE W/LOCK? (YES) OR NO
PROTECTOR PIPE DIA. 4 IN. SQ.

2) WELL DEVELOPMENT

A) METHOD

[BAILING], PUMPING, SURGING, COMPRESSED AIR

OTHER _____

(NOTE ADDITIONAL COMMENTS BELOW)

B) TIME SPENT FOR DEVELOPMENT? _____

C) APPROXIMATE WATER VOLUME: REMOVED _____

ADDED _____

D) WATER CLARITY BEFORE DEVELOPMENT?

CLEAR, TURBID, OPAQUE

E) WATER CLARITY AFTER DEVELOPMENT?

CLEAR, SLIGHTLY TURBID, TURBID, OPAQUE

F) ODOR? YES OR NO

3) WATER LEVEL SUMMARY

A) DEPTH FROM TOP OF CASING AFTER DEVELOPMENT?

_____ FT. OR DRY

B) OTHER MEASUREMENTS (T.O.C.):

DATE/TIME _____ F

DATE/TIME _____ F

DATE/TIME _____ F

ADDITIONAL COMMENTS: _____

RMT

Diagram
(R 11-85)

PROJECT NAME: EPI - Muskego NO. 1347.03

WELL NO. MW-18A

DATE INSTALLED 4/13/88

ELEV. (T.O.C.) 802.89 T/PVC

GROUND SURF. ELEV. 800.81

Concrete

BENTONITE PELLETS/GRANULAR/POWDER

Benseal

BACKFILL MATERIAL

Benseal

BACKFILL METHOD

PIPE TREMIE/AUGER TREMIE

GRAVITY FILLED

BENTONITE PELLETS/GRANULAR/POWDER

Benseal

SILICA SAND

FILTER PACK MATERIAL

WELL BOTTOM ELEV.

SEAL MATERIAL

BACKFILL MATERIAL

LENGTH OF SOLID PIPE

WELL SCREEN LENGTH

DEPTH FROM GROUND SURFACE

1.5' FT.

FT.

BOREHOLE DIA.

8.5" IN.

FT.

3.4' FT.

FT.

5.0' FT.

15.0' FT.

FT.

FT.

17.3' FT.

1) CASING DETAILS

A) TYPE OF PIPE:

PVC STAINLESS, TEFLON, OTHER

PIPE SCHEDULE 40

B) TYPE OF PIPE JOINTS;

COUPLINGS, THREADED (W/TAPE?), OTHER

C) WAS SOLVENT USED? YES OR NO

D) TYPE OF WELL SCREEN:

PVC STAINLESS, TEFLON, OTHER

E) WELL SCREEN SLOT SIZE .01"

F) PIPE DIA: ID IN. .17' OD IN. .19'

G) INSTALLED PROTECTOR PIPE W/LOCK? YES OR NO

PROTECTOR PIPE DIA. 4 IN. SQ.

2) WELL DEVELOPMENT

A) METHOD

BAILING PUMPING, SURGING, COMPRESSED AIR

OTHER

(NOTE ADDITIONAL COMMENTS BELOW)

B) TIME SPENT FOR DEVELOPMENT?

C) APPROXIMATE WATER VOLUME: REMOVED

ADDED

D) WATER CLARITY BEFORE DEVELOPMENT?

CLEAR, TURBID, OPAQUE

E) WATER CLARITY AFTER DEVELOPMENT?

CLEAR, SLIGHTLY TURBID, TURBID, OPAQUE

F) ODOR? YES OR NO

3) WATER LEVEL SUMMARY

A) DEPTH FROM TOP OF CASING AFTER DEVELOPMENT?

4.36 FT. OR DRY

B) OTHER MEASUREMENTS (T.O.C.):

DATE/TIME F

DATE/TIME F

DATE/TIME F

ADDITIONAL COMMENTS:

RMT

Diagram (R 11-85)

PROJECT NAME: EPI - Muskego NO. 1397.03

WELL NO. MW-16B

DATE INSTALLED 4/15/88

ELEV. (T.O.C.) 790.40 T/PVC

GROUND SURF. ELEV. 788.17

Concrete — DEPTH FROM GROUND SURFACE 2 FT.

BENTONITE PELLETS/GRANULAR/POWDER — 4 FT.

BACKFILL MATERIAL: Cement-Bent. grout

BACKFILL METHOD: PIPE TRENCH/AUGER TRENCH GRAVITY FILLED — BOREHOLE DIA. 8.5 IN.

BENTONITE PELLETS/GRANULAR/POWDER: Bent. Slurry — 27.4' FT.

SILICA SAND — 32.4' FT.

FILTER PACK MATERIAL: Silica Sand — ____ FT.

WELL BOTTOM ELEV. — 35.0' FT.

SEAL MATERIAL — 40.0' FT.

BACKFILL MATERIAL — 42.3' FT.

LENGTH OF SOLID PIPE ____ FT.

WELL SCREEN LENGTH ____ FT.

1) CASING DETAILS

A) TYPE OF PIPE:

PVC, STAINLESS, TEFLON, OTHER ____

PIPE SCHEDULE 40

B) TYPE OF PIPE JOINTS;

COUPLINGS, THREADED (W/~~SOLVENT~~), OTHER ____

C) WAS SOLVENT USED? YES OR NO

D) TYPE OF WELL SCREEN:

PVC, STAINLESS, TEFLON, OTHER ____

E) WELL SCREEN SLOT SIZE .01"

F) PIPE DIA: ID IN. .17' OD IN. .19'

G) INSTALLED PROTECTOR PIPE W/LOCK? YES OR NO

PROTECTOR PIPE DIA. 4 IN. SQ.

2) WELL DEVELOPMENT

A) METHOD

BAILING, PUMPING, SURGING, COMPRESSED AIR

OTHER ____

(NOTE ADDITIONAL COMMENTS BELOW)

B) TIME SPENT FOR DEVELOPMENT? ____

C) APPROXIMATE WATER VOLUME: REMOVED ____

ADDED ____

D) WATER CLARITY BEFORE DEVELOPMENT?

CLEAR, TURBID, OPAQUE

E) WATER CLARITY AFTER DEVELOPMENT?

CLEAR, SLIGHTLY TURBID, TURBID, OPAQUE

F) ODOR? YES OR NO

3) WATER LEVEL SUMMARY

A) DEPTH FROM TOP OF CASING AFTER DEVELOPMENT?

____ FT. OR DRY

B) OTHER MEASUREMENTS (T.O.C.):

DATE/TIME ____ F

DATE/TIME ____ F

DATE/TIME ____ F

ADDITIONAL COMMENTS: ____

360.

RMT

Diagram
...7 (R 11-85)

PROJECT NAME: EPI NO. 1397.03

WELL NO. MW-16A

DATE INSTALLED 4/14/88

ELEV. (T.O.C.) 790.24 T/PVC

GROUND SURF. ELEV. 788.18

Concrete

DEPTH FROM GROUND SURFACE 2.0' FT.

~~BENTONITE~~ PELLETS/~~GRANULAR~~/POWDER

Benseal

____ FT.

BACKFILL MATERIAL

Benseal

____ FT.

LENGTH OF SOLID PIPE

BACKFILL METHOD

PIPE TREMIE/AUGER TREMIE GRAVITY FILLED

BOREHOLE DIA. ____ IN.

____ FT.

~~BENTONITE~~ PELLETS/~~GRANULAR~~/POWDER

Benseal

3.4' FT.

~~SILICA SAND~~

____ FT.

FILTER PACK MATERIAL

Silica Sand

5.0' FT.

____ FT.

WELL SCREEN LENGTH

WELL BOTTOM ELEV. ____

15.0' FT.

____ FT.

SEAL MATERIAL

____ FT.

BACKFILL MATERIAL

16.9' FT.

1) CASING DETAILS

A) TYPE OF PIPE:

PVC, STAINLESS, TEFLON, OTHER ____

PIPE SCHEDULE 40

B) TYPE OF PIPE JOINTS;

COUPLINGS, THREADED (W/~~TAPE~~?), OTHER ____

C) WAS SOLVENT USED? YES OR NO

D) TYPE OF WELL SCREEN:

PVC, STAINLESS, TEFLON, OTHER ____

E) WELL SCREEN SLOT SIZE .01"

F) PIPE DIA: ID IN. .17' OD IN. .19'

G) INSTALLED PROTECTOR PIPE W/LOCK? YES OR NO

PROTECTOR PIPE DIA. 4 IN. SQ.

2) WELL DEVELOPMENT

A) METHOD

RAILING, PUMPING, SURGING, COMPRESSED AIR

OTHER ____

(NOTE ADDITIONAL COMMENTS BELOW)

B) TIME SPENT FOR DEVELOPMENT? ____

C) APPROXIMATE WATER VOLUME: REMOVED ____

ADDED ____

D) WATER CLARITY BEFORE DEVELOPMENT?

CLEAR, TURBID, OPAQUE

E) WATER CLARITY AFTER DEVELOPMENT?

CLEAR, SLIGHTLY TURBID, TURBID, OPAQUE

F) ODOR? YES OR NO

3) WATER LEVEL SUMMARY

A) DEPTH FROM TOP OF CASING AFTER DEVELOPMENT?

5.71 FT. OR DRY

B) OTHER MEASUREMENTS (T.O.C.):

DATE/TIME ____

DATE/TIME ____

DATE/TIME ____

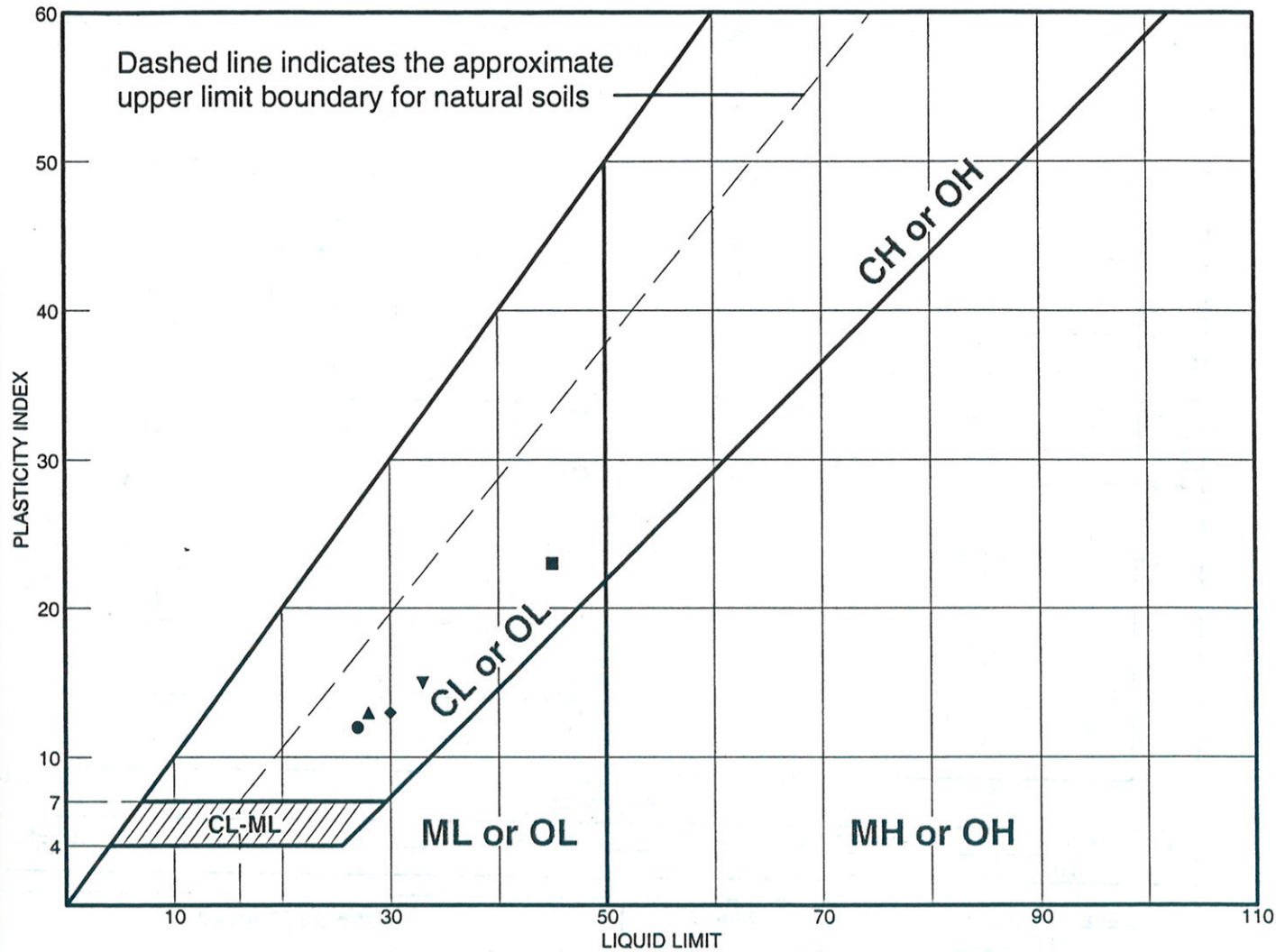
ADDITIONAL COMMENTS: ____

361

Soil Laboratory Analytical Results

✓ HW ✓ JH

LIQUID AND PLASTIC LIMITS TEST REPORT (ASTM D4318)



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Lean clay	27	15	12	94.8	87.4	CL
■	Lean clay	45	22	23	99.9	99.8	CL
▲	Lean clay	28	15	13	92.9	90.9	CL
◆	Lean clay	30	17	13	93.4	86.9	CL
▼	Lean clay	33	18	15	97.5	91.6	CL

Project No. 20655.17 **Client:**

Project: Veolia: EPI

● **Source:** MW **Sample No.:** MW-301C, 8-12'
■ **Source:** MW **Sample No.:** MW-301C, 70-74'
▲ **Source:** MW **Sample No.:** MW-301C, 120-127'
◆ **Source:** B **Sample No.:** B-302, 10-14'
▼ **Source:** B **Sample No.:** B-302, 74-78'

Remarks:
●
■
▲
◆
▼

RMT, Inc.

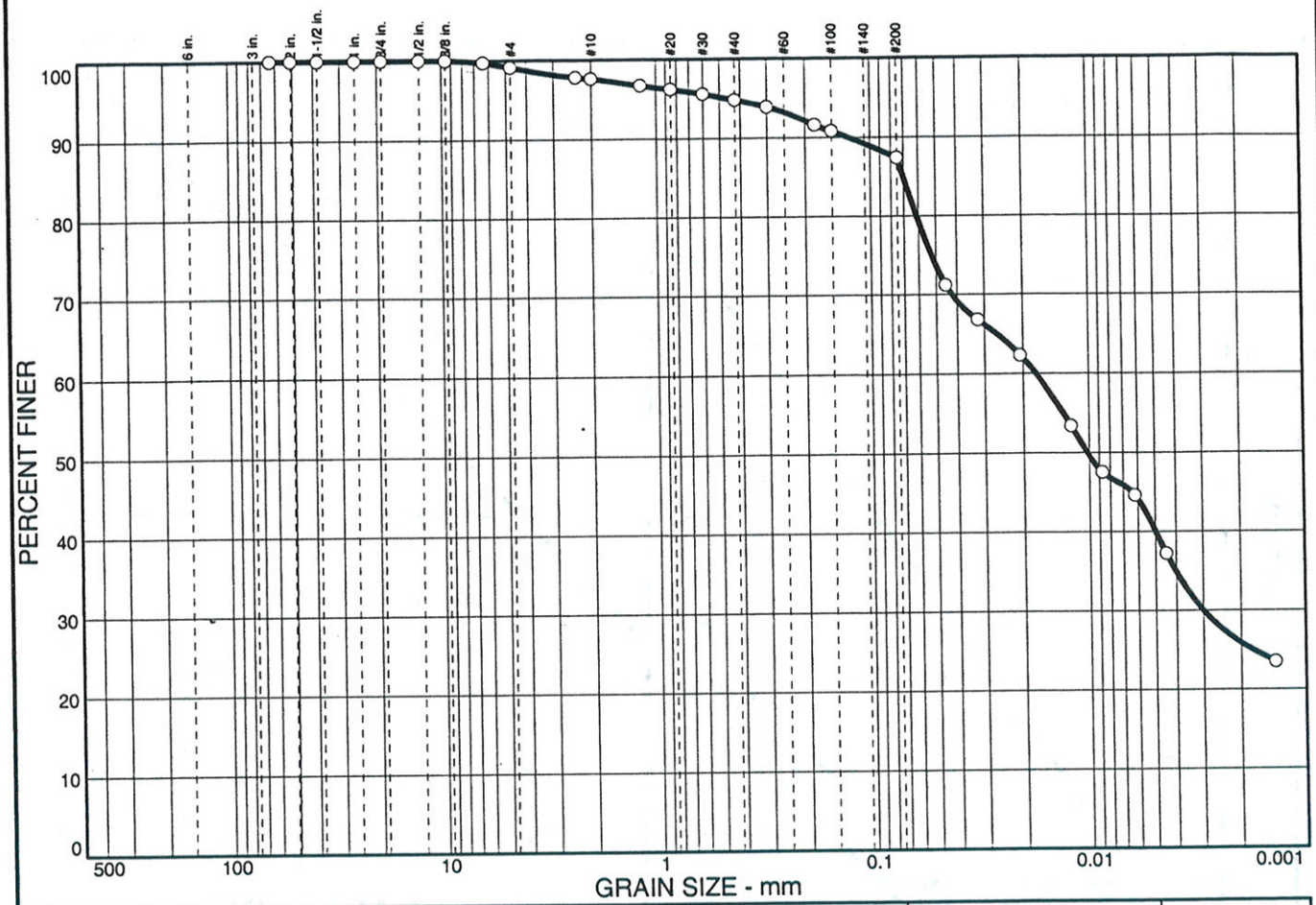
Madison, Wisconsin

Figure:

365

✓ HOW

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.9	11.7	47.3	40.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	99.7		
#4	99.1		
#8	97.8		
#10	97.6		
#16	96.7		
#20	96.2		
#30	95.6		
#40	94.8		
#50	93.9		
#80	91.6		
#100	90.8		
#200	87.4		

* (no specification provided)

Material Description

Lean clayLean clay

Atterberg Limits

PL= 15 LL= 27 PI= 12

Coefficients

D_{85}= 0.0703 D_{60}= 0.0175 D_{50}= 0.0102
D_{30}= 0.0030 D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL AASHTO=

Remarks

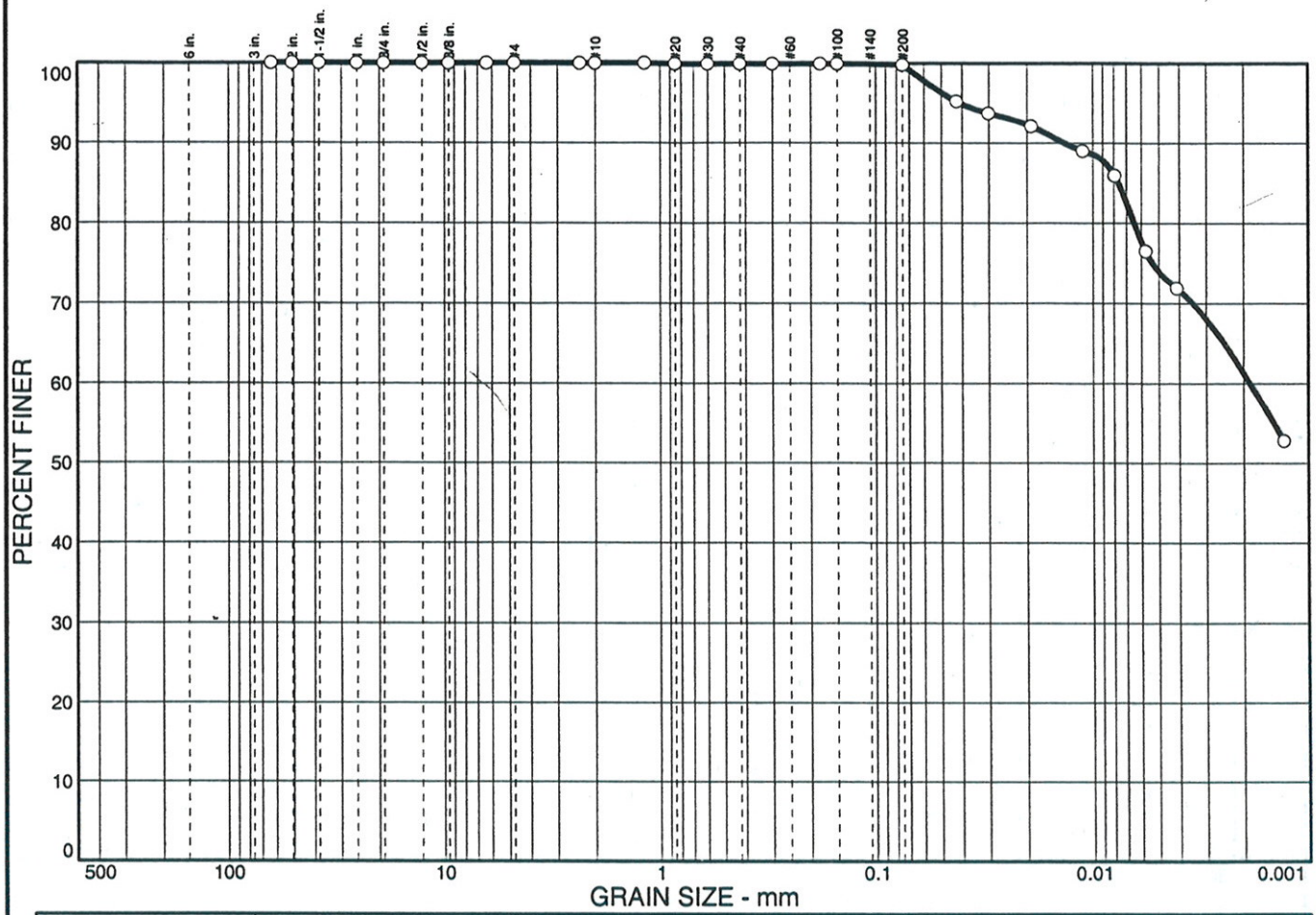
Sample No.: MW-301C, 8-12' **Source of Sample:** MW **Date:** 03-05-07
Location: **Elev./Depth:**

RMT, Inc.	Client:
Madison, Wisconsin	Project: Veolia: EPI
	Project No: 20655.17 Figure:

366

✓ HW

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	0.2	25.8	74.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	100.0		
#10	100.0		
#16	100.0		
#20	99.9		
#30	99.9		
#40	99.9		
#50	99.9		
#80	99.9		
#100	99.9		
#200	99.8		

* (no specification provided)

Material Description

Lean clay

Atterberg Limits

PL= 22 LL= 45 PI= 23

Coefficients

D_{85}= 0.0076 D_{60}= 0.0019 D_{50}=
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL AASHTO=

Remarks

Sample No.: MW-301C, 70-74' **Source of Sample:** MW **Date:** 3-8-07
Location: **Elev./Depth:**

RMT, Inc.

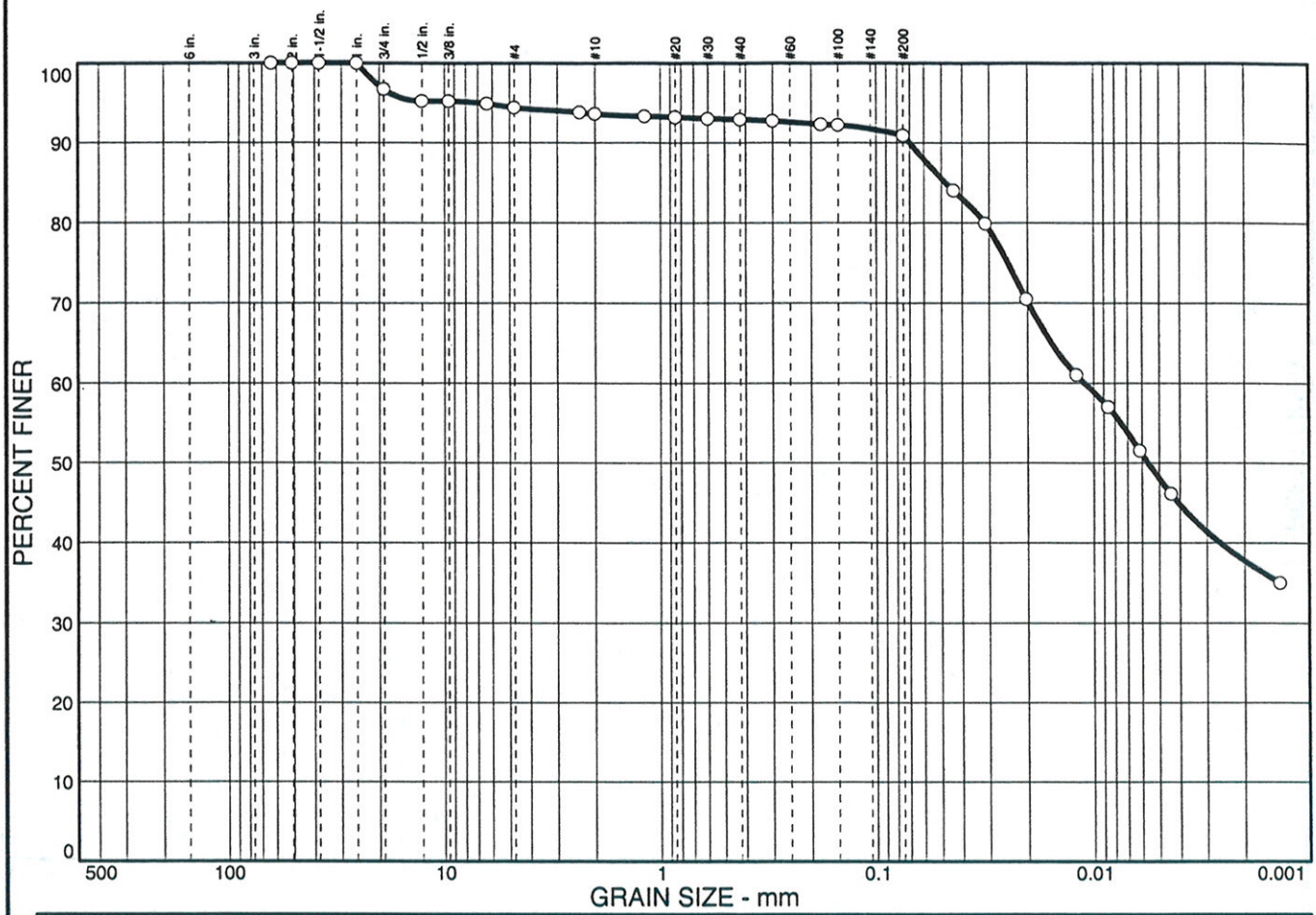
Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

367

✓ HW ✓

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	5.6	3.5	42.9	48.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	96.7		
.5 in.	95.2		
.375 in.	95.2		
.25 in.	94.9		
#4	94.4		
#8	93.8		
#10	93.6		
#16	93.3		
#20	93.2		
#30	93.0		
#40	92.9		
#50	92.7		
#80	92.3		
#100	92.2		
#200	90.9		

* (no specification provided)

Material Description

Lean clay

Atterberg Limits

PL= 15 LL= 28 PI= 13

Coefficients

D_{85}= 0.0477 D_{60}= 0.0111 D_{50}= 0.0056
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL AASHTO=

Remarks

Sample No.: MW-301C, 120-127' **Source of Sample:** MW **Date:** 3-8-08
Location: **Elev./Depth:**

RMT, Inc.

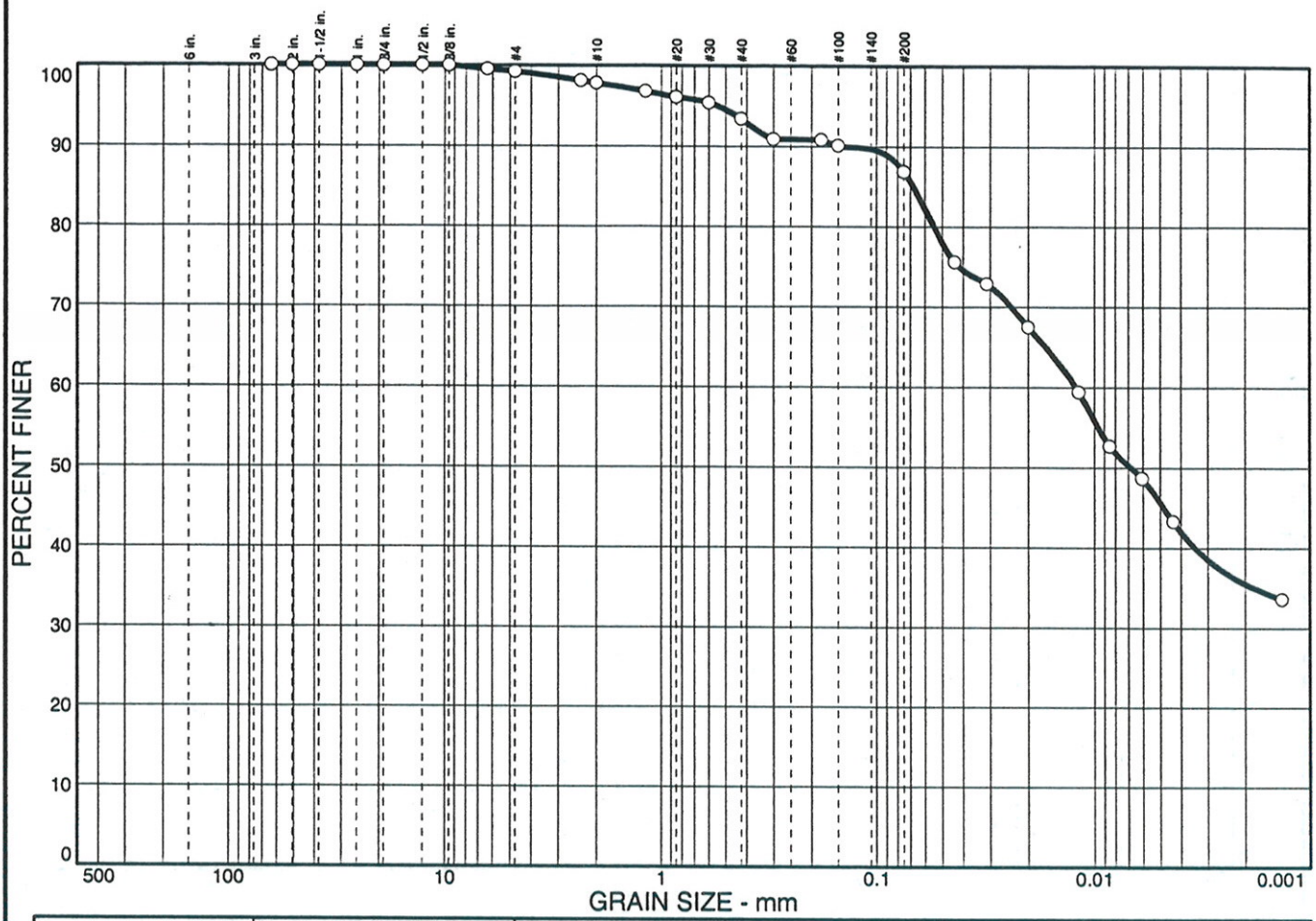
Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

368

✓ HW

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.8	12.3	41.2	45.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	99.5		
#4	99.2		
#8	98.1		
#10	97.8		
#16	96.8		
#20	96.1		
#30	95.4		
#40	93.4		
#50	90.9		
#80	90.8		
#100	90.1		
#200	86.9		

* (no specification provided)

Material Description

Lean clay

Atterberg Limits

PL= 17 LL= 30 PI= 13

Coefficients

D_{85}= 0.0678 D_{60}= 0.0122 D_{50}= 0.0068
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL AASHTO=

Remarks

Sample No.: B-302, 10-14' **Source of Sample:** B **Date:** 3-8-07
Location: **Elev./Depth:**

RMT, Inc.

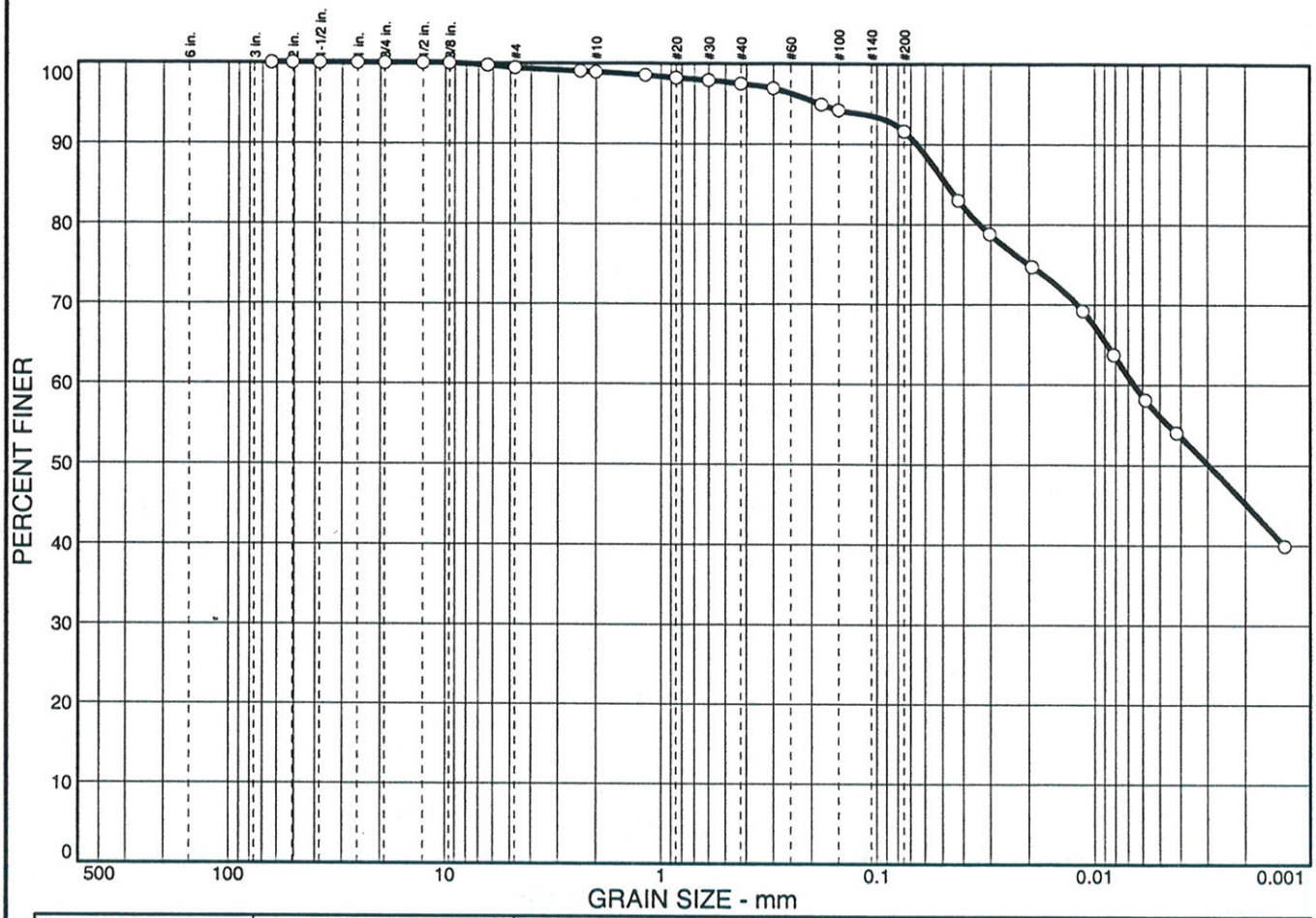
Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

369

✓ HW AP

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.6	7.8	35.5	56.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	99.7		
#4	99.4		
#8	99.0		
#10	98.9		
#16	98.5		
#20	98.2		
#30	97.9		
#40	97.5		
#50	96.9		
#80	94.9		
#100	94.2		
#200	91.6		

* (no specification provided)

Material Description

Lean clay

Atterberg Limits

PL= 18 LL= 33 PI= 15

Coefficients

D_{85}= 0.0479 D_{60}= 0.0066 D_{50}= 0.0030
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL AASHTO=

Remarks

Sample No.: B-302, 74-78' **Source of Sample:** B **Date:** 3-8-07
Location: **Elev./Depth:**

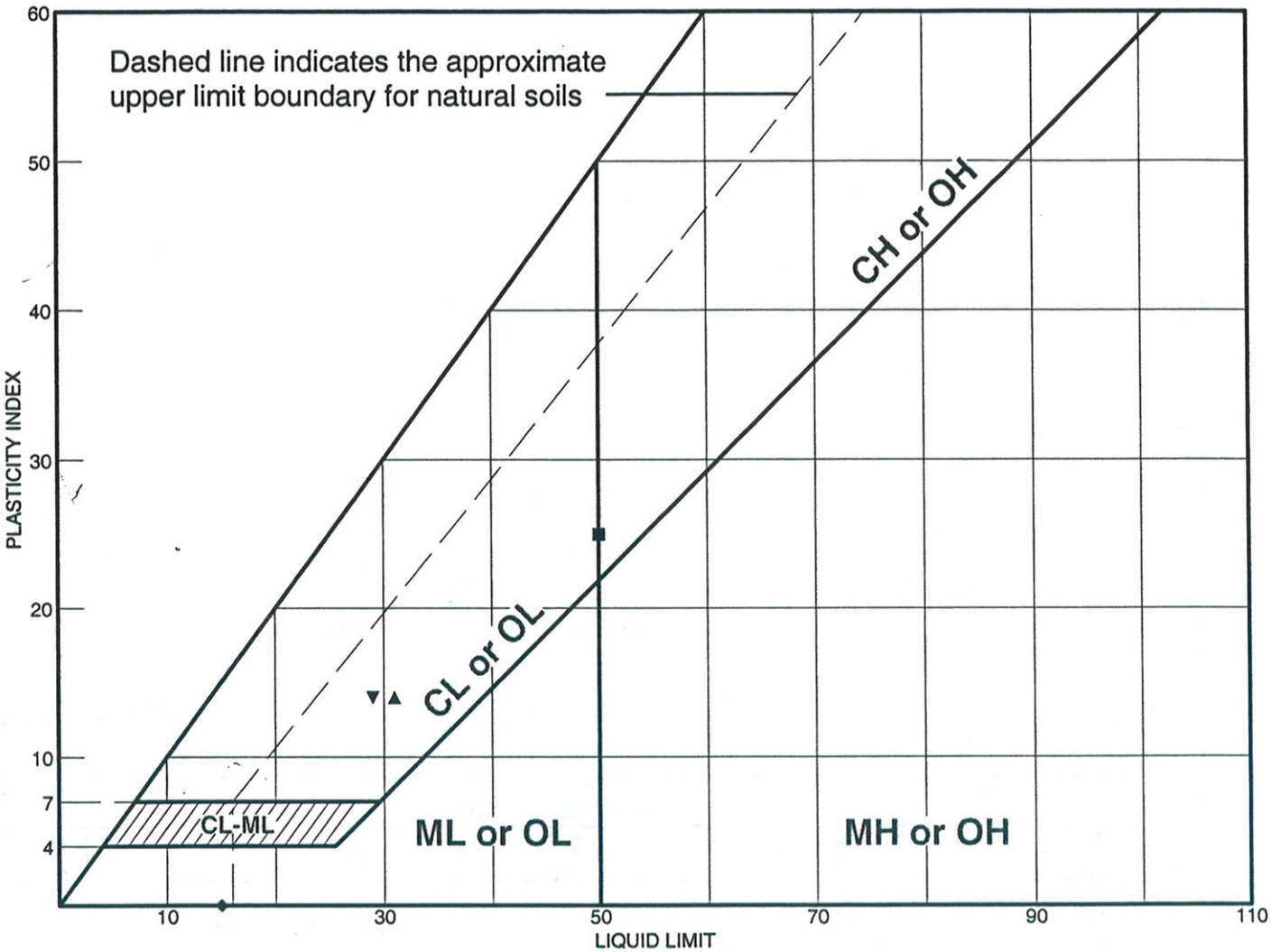
RMT, Inc.

Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

370

LIQUID AND PLASTIC LIMITS TEST REPORT (ASTM D4318)



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Silty sand with gravel	NV	NP	NP	33.2	21.9	SM
■	Fat clay	50	25	25	100.0	99.9	CH
▲	Lean clay	31	17	14	94.4	89.4	CL
◆	Silt with sand	15	NP	NP	99.9	78.7	ML
▼	Lean clay with sand	29	15	14	92.4	84.0	CL

Project No. 20655.17 **Client:**

Project: Veolia: EPI

● **Source:** B **Sample No.:** B-302, 129-131'
■ **Source:** MW **Sample No.:** MW-303, 12-16'
▲ **Source:** MW **Sample No.:** MW-303, 70-74'
◆ **Source:** MW **Sample No.:** MW-303, 130-136.5'
▼ **Source:** B **Sample No.:** B-304, 8-12'

Remarks:
●
■
▲
◆
▼

RMT, Inc.

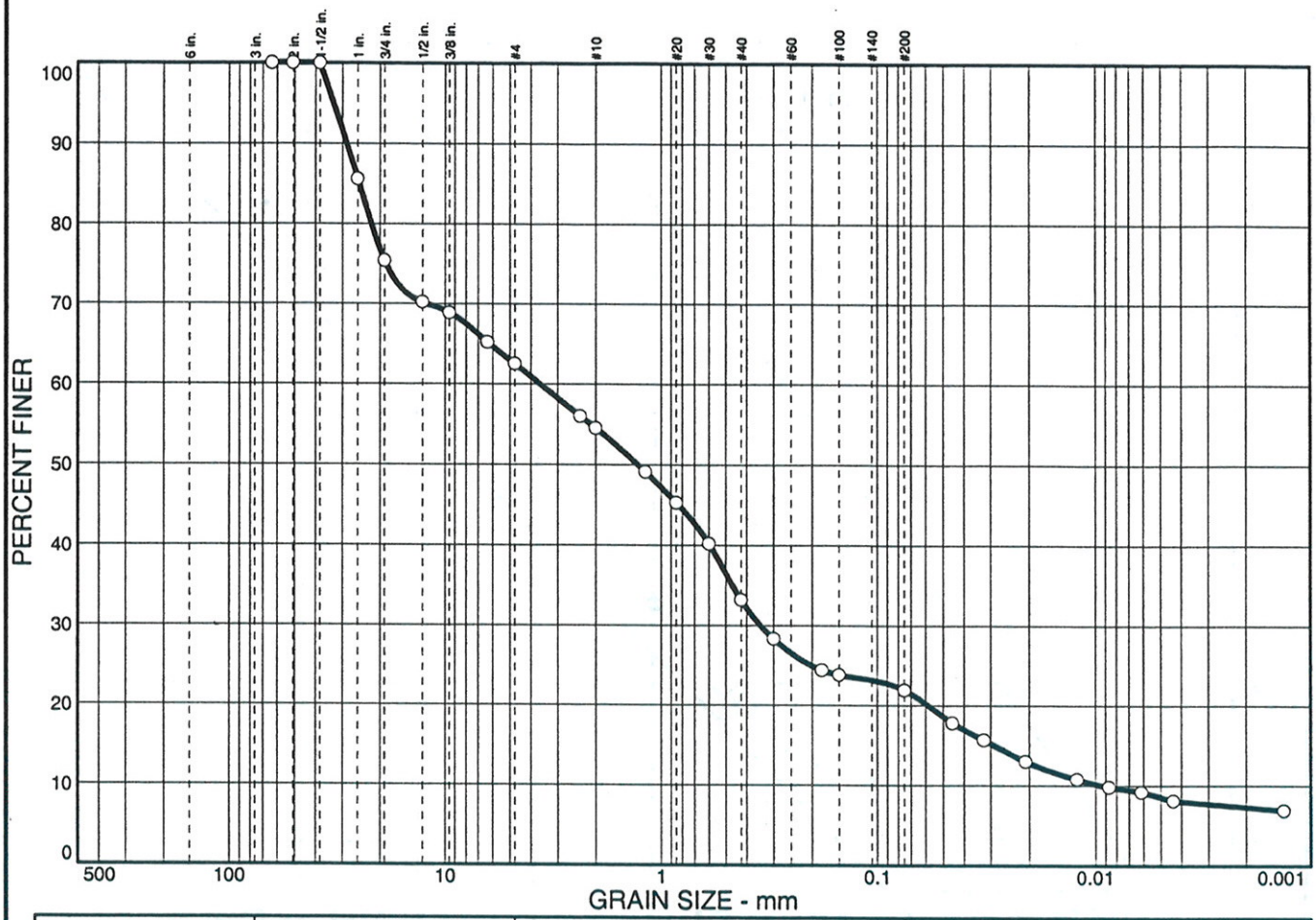
Madison, Wisconsin

Figure:

371

✓ HUW

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	37.5	40.6	13.3	8.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	85.6		
.75 in.	75.4		
.5 in.	70.2		
.375 in.	68.9		
.25 in.	65.2		
#4	62.5		
#8	56.0		
#10	54.5		
#16	49.1		
#20	45.3		
#30	40.2		
#40	33.2		
#50	28.3		
#80	24.4		
#100	23.8		
#200	21.9		

* (no specification provided)

Material Description

Silty sand with gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{85}= 25.0 D_{60}= 3.63 D_{50}= 1.28
D_{30}= 0.346 D_{15}= 0.0289 D_{10}= 0.0094
C_u= 384.97 C_c= 3.50

Classification

USCS= SM AASHTO=

Remarks

Sample No.: B-302, 129-131' **Source of Sample:** B **Date:** 3-8-07
Location: **Elev./Depth:**

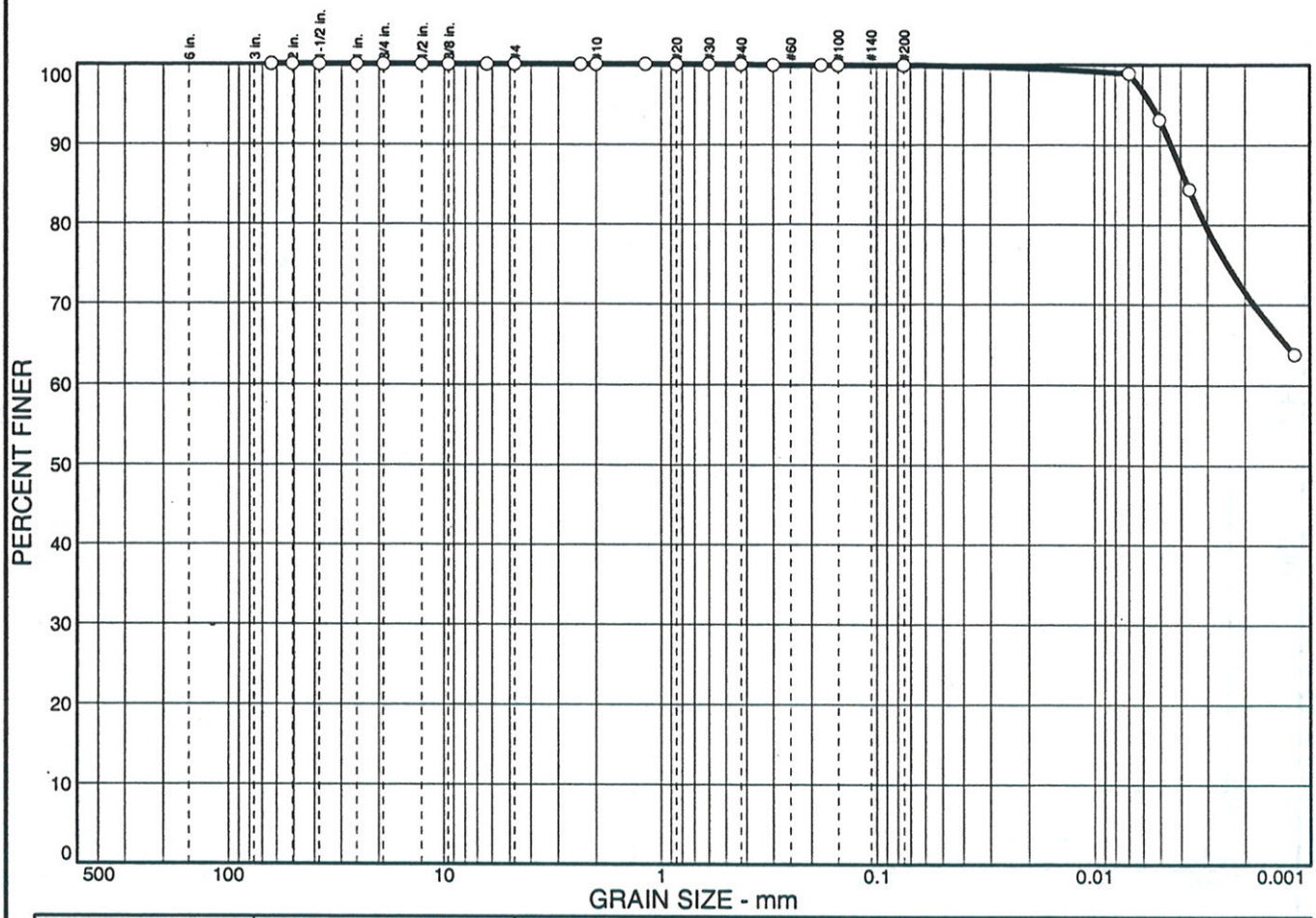
RMT, Inc.

Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

372

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	0.1	6.8	93.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	100.0		
#10	100.0		
#16	100.0		
#20	100.0		
#30	100.0		
#40	100.0		
#50	99.9		
#80	99.9		
#100	99.9		
#200	99.9		

* (no specification provided)

Material Description

Fat clay

Atterberg Limits

PL= 25 LL= 50 PI= 25

Coefficients

D_{85}= 0.0037 D_{60}= D_{50}=
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CH AASHTO=

Remarks

Sample No.: MW-303, 12-16' **Source of Sample:** MW **Date:** 3-8-07
Location: **Elev./Depth:**

RMT, Inc.

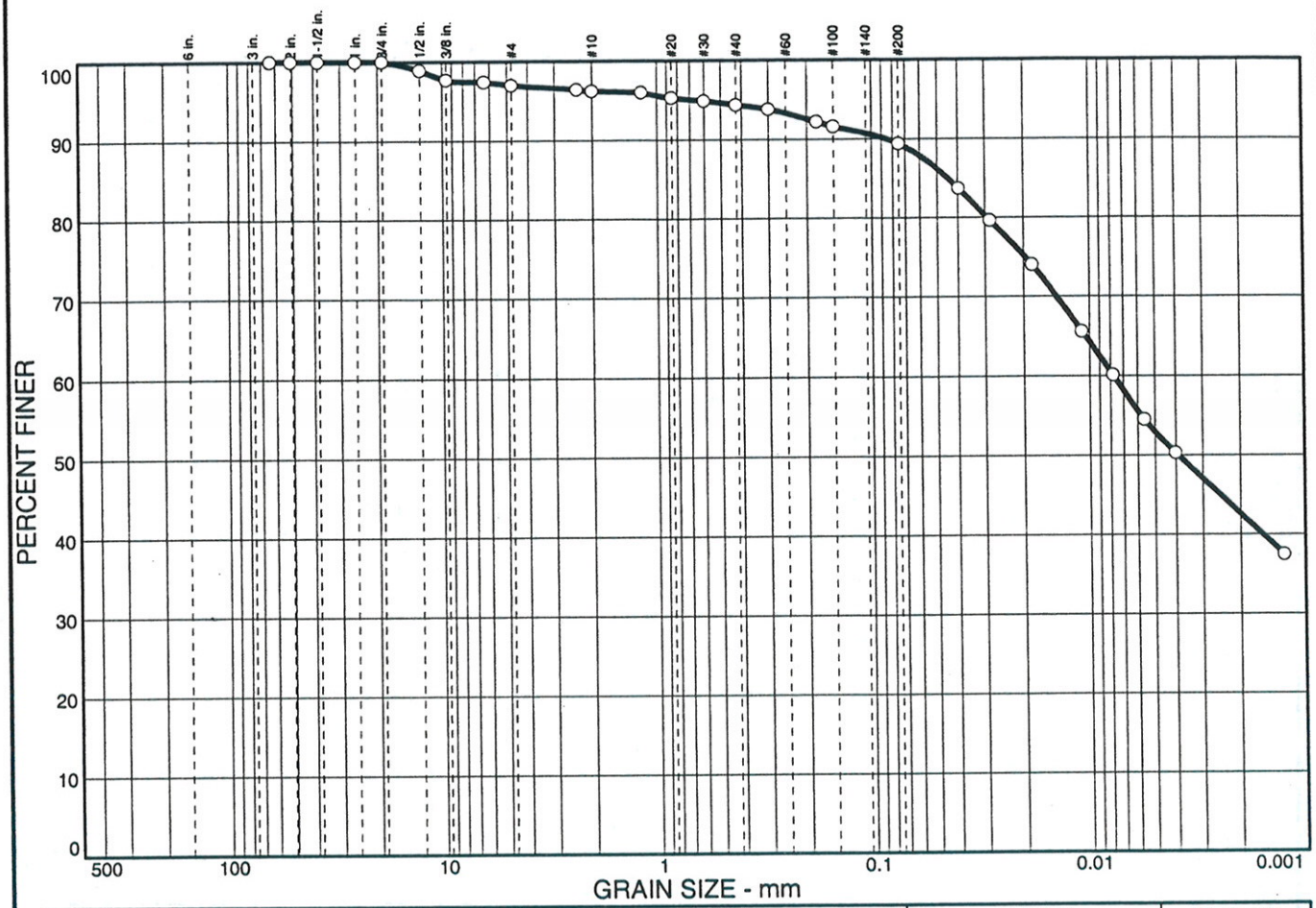
Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

373

✓ HUW ✓ JW

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	3.0	7.6	36.5	52.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	98.9		
.375 in.	97.7		
.25 in.	97.4		
#4	97.0		
#8	96.4		
#10	96.2		
#16	96.0		
#20	95.3		
#30	94.9		
#40	94.4		
#50	93.8		
#80	92.2		
#100	91.6		
#200	89.4		

* (no specification provided)

Material Description

Lean clay

Atterberg Limits

PL= 17 LL= 31 PI= 14

Coefficients

D_{85}= 0.0445 D_{60}= 0.0078 D_{50}= 0.0039
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL AASHTO=

Remarks

Sample No.: MW-303, 70-74' **Source of Sample:** MW **Date:** 3-8-07
Location: **Elev./Depth:**

RMT, Inc.

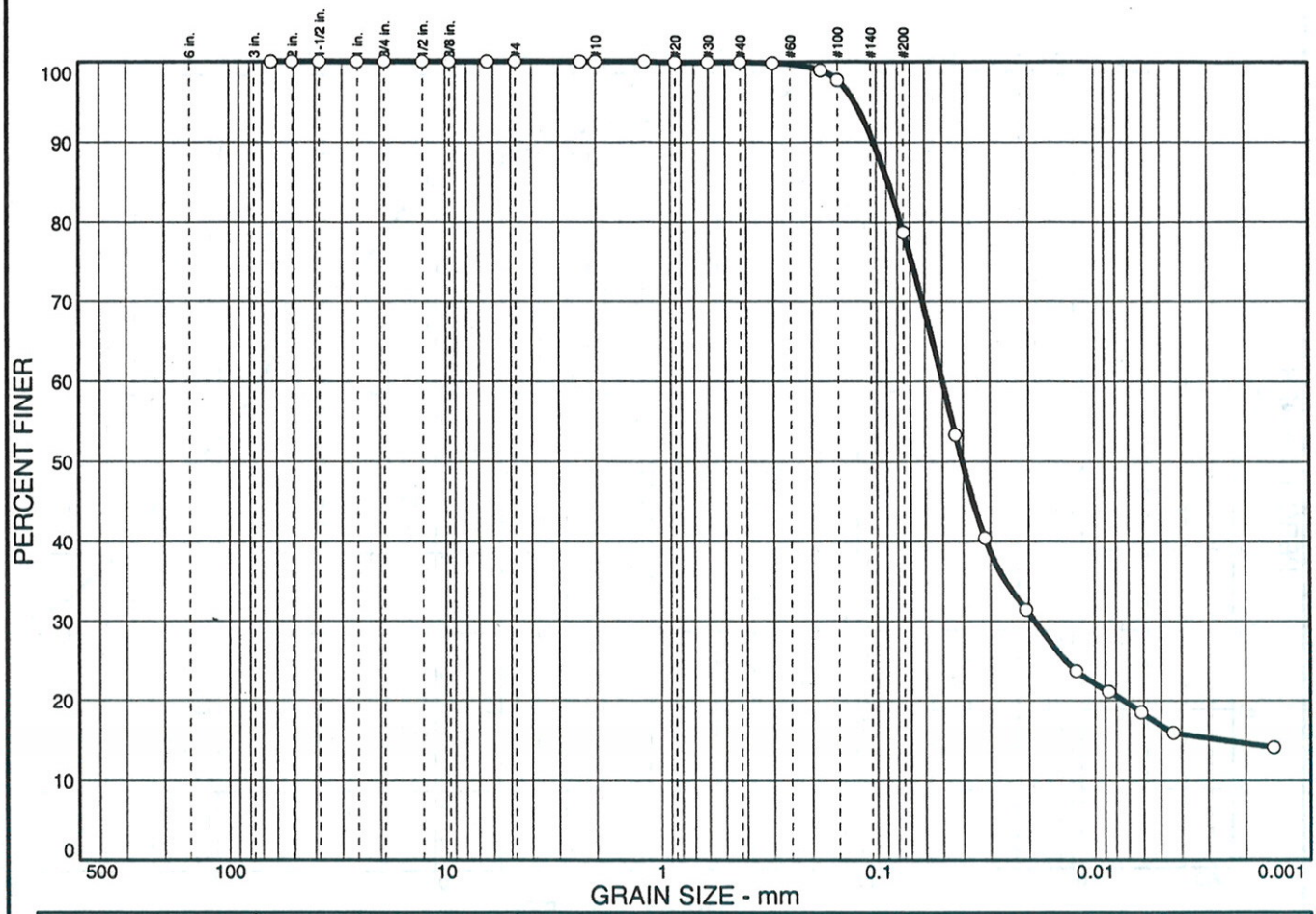
Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

374

✓ HJW

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	21.3	61.9	16.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	100.0		
#10	100.0		
#16	100.0		
#20	99.9		
#30	99.9		
#40	99.9		
#50	99.8		
#80	98.9		
#100	97.7		
#200	78.7		

* (no specification provided)

Material Description

Silt with sand

Atterberg Limits

PL= NP LL= 15 PI= NP

Coefficients

D_{85}= 0.0883 D_{60}= 0.0498 D_{50}= 0.0403
D_{30}= 0.0189 D_{15}= 0.0025 D_{10}=
C_u= C_c=

Classification

USCS= ML AASHTO=

Remarks

Sample No.: MW-303, 130-136.5' **Source of Sample:** MW **Date:** 3-8-07
Location: **Elev./Depth:**

RMT, Inc.

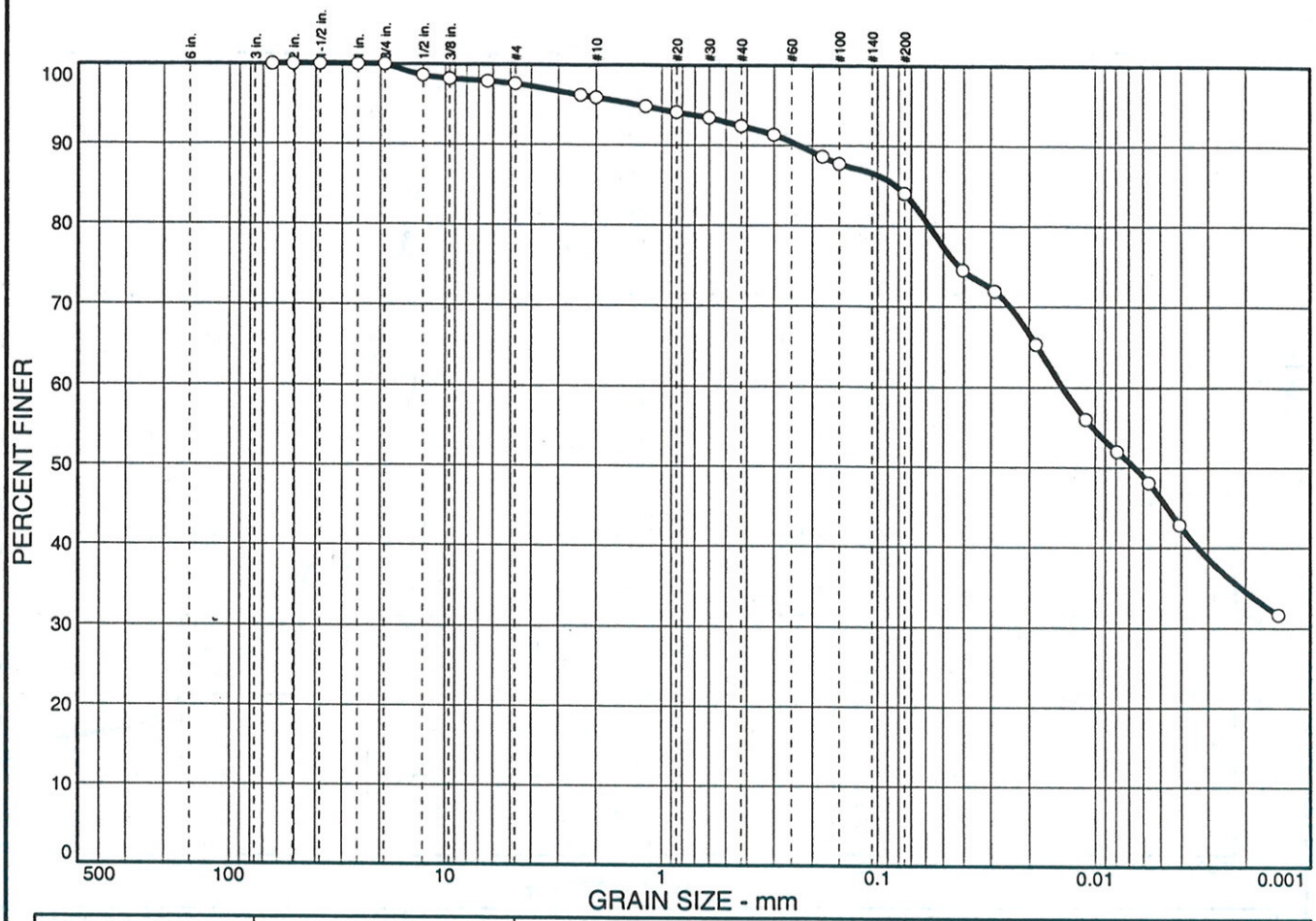
Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

375

✓ HJW

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	2.4	13.6	37.8	46.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	98.6		
.375 in.	98.2		
.25 in.	97.9		
#4	97.6		
#8	96.2		
#10	95.9		
#16	94.8		
#20	94.1		
#30	93.4		
#40	92.4		
#50	91.3		
#80	88.6		
#100	87.7		
#200	84.0		

* (no specification provided)

Material Description

Lean clay with sand

Atterberg Limits

PL= 15 LL= 29 PI= 14

Coefficients

D_{85}= 0.0824 D_{60}= 0.0140 D_{50}= 0.0066
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL AASHTO=

Remarks

Sample No.: B-304, 8-12' **Source of Sample:** B **Date:** 3-8-07
Location: **Elev./Depth:**

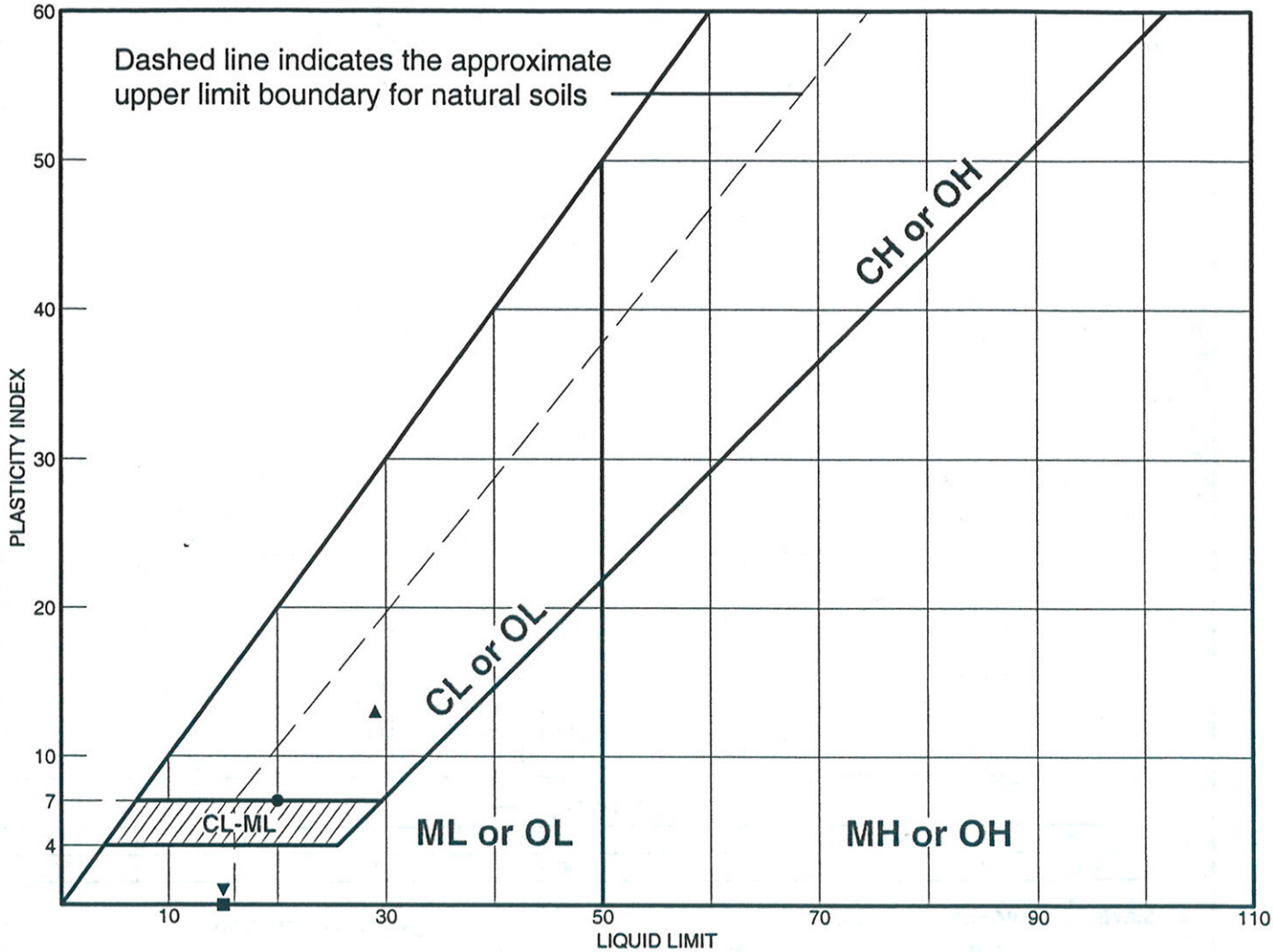
RMT, Inc.

Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

376

LIQUID AND PLASTIC LIMITS TEST REPORT (ASTM D4318)



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Sandy silty clay	20	13	7	73.5	58.2	CL-ML
■	Silt with sand	15	NP	NP	99.9	80.0	ML
▲	Lean clay with sand	29	16	13	88.9	79.9	CL
◆	Well-graded sand with silt and gravel	NV	NP	NP	26.0	10.6	SW-SM
▼	Silt	15	14	1	97.5	85.5	ML

Project No. 20655.17 **Client:**

Project: Veolia: EPI

● **Source:** B **Sample No.:** B-304, 72-76'
■ **Source:** B **Sample No.:** B-304, 120-127'
▲ **Source:** B **Sample No.:** B-305C, 8-12'
◆ **Source:** B **Sample No.:** B-305C, 92-96.5'
▼ **Source:** B **Sample No.:** B-305C, 124-129.8'

RMT, Inc.

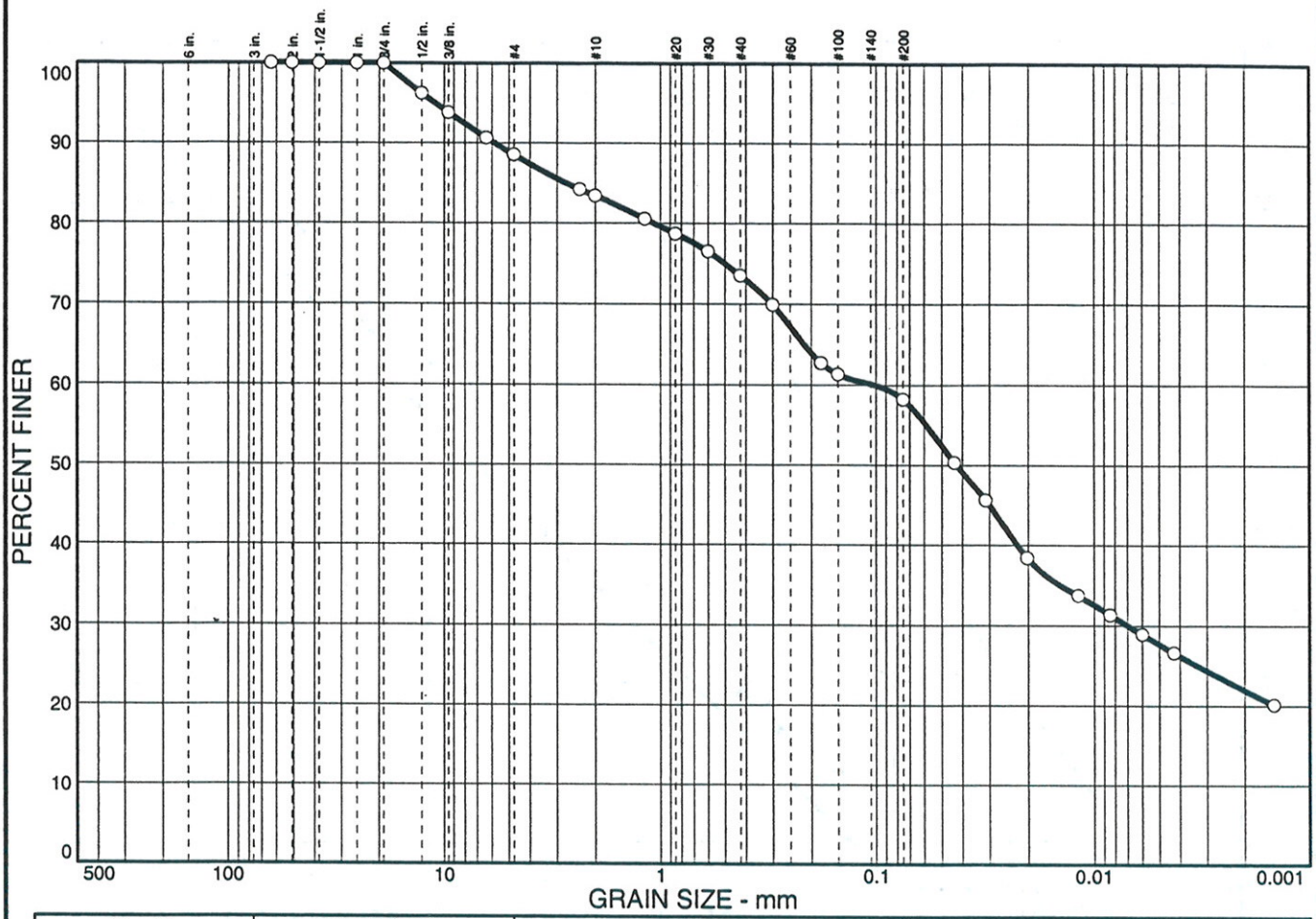
Madison, Wisconsin

Remarks:
●
■
▲
◆
▼

Figure:

377

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	11.5	30.3	30.5	27.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	96.2		
.375 in.	93.8		
.25 in.	90.6		
#4	88.5		
#8	84.2		
#10	83.4		
#16	80.5		
#20	78.7		
#30	76.5		
#40	73.5		
#50	69.9		
#80	62.7		
#100	61.3		
#200	58.2		

* (no specification provided)

Material Description

Sandy silty clay

Atterberg Limits

PL= 13 LL= 20 PI= 7

Coefficients

D_{85}= 2.75 D_{60}= 0.102 D_{50}= 0.0426
D_{30}= 0.0070 D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL-ML AASHTO=

Remarks

Sample No.: B-304, 72-76' **Source of Sample:** B **Date:** 3-8-07
Location: **Elev./Depth:**

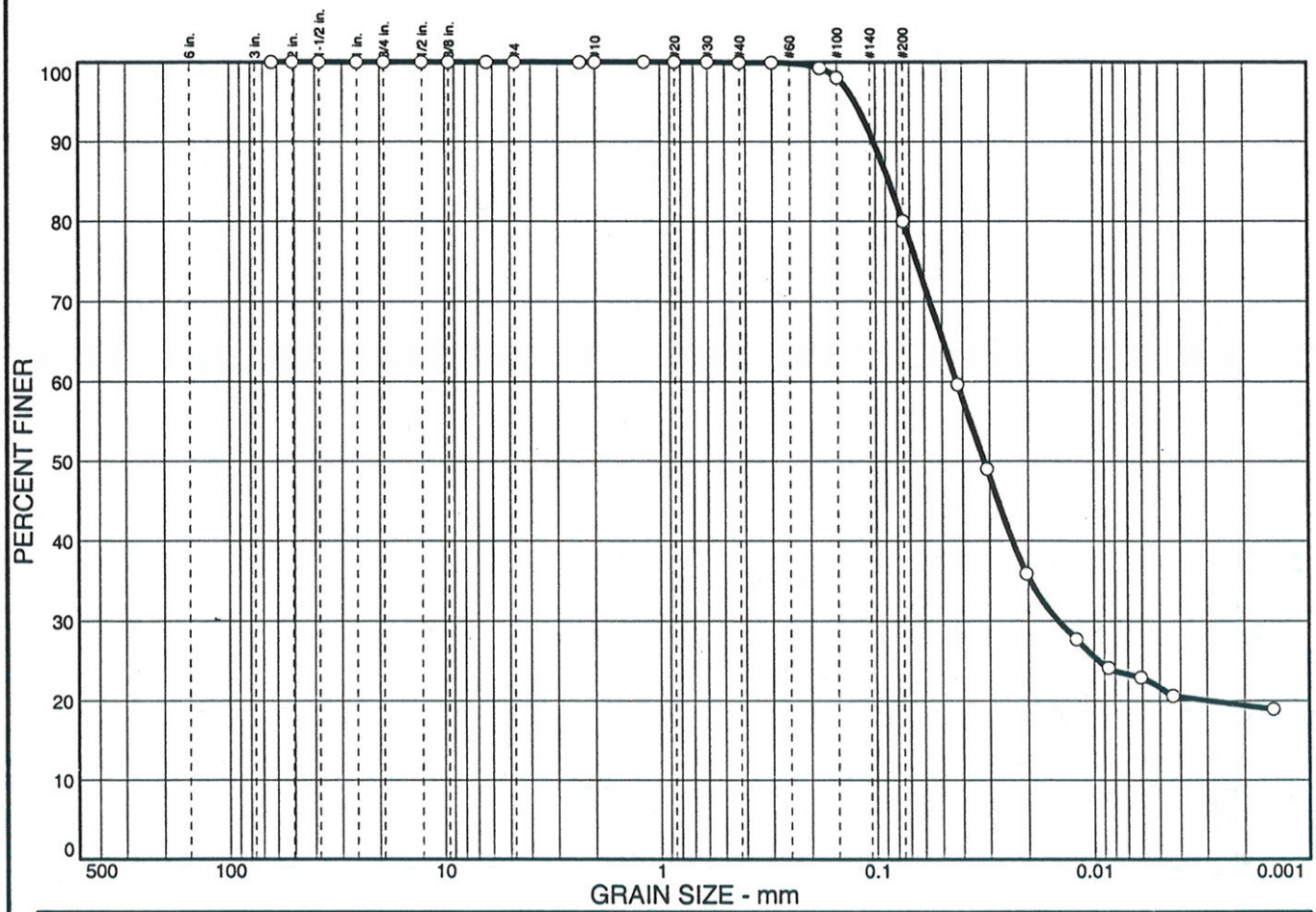
RMT, Inc.

Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

378

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	20.0	58.3	21.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	100.0		
#10	100.0		
#16	100.0		
#20	100.0		
#30	100.0		
#40	99.9		
#50	99.9		
#80	99.2		
#100	98.0		
#200	80.0		

* (no specification provided)

Material Description

Silt with sand

Atterberg Limits

PL= NP LL= 15 PI= NP

Coefficients

D_{85}= 0.0869 D_{60}= 0.0426 D_{50}= 0.0318
D_{30}= 0.0145 D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= ML AASHTO=

Remarks

Sample No.: B-304, 120-127' **Source of Sample:** B **Date:** 3-8-07
Location: **Elev./Depth:**

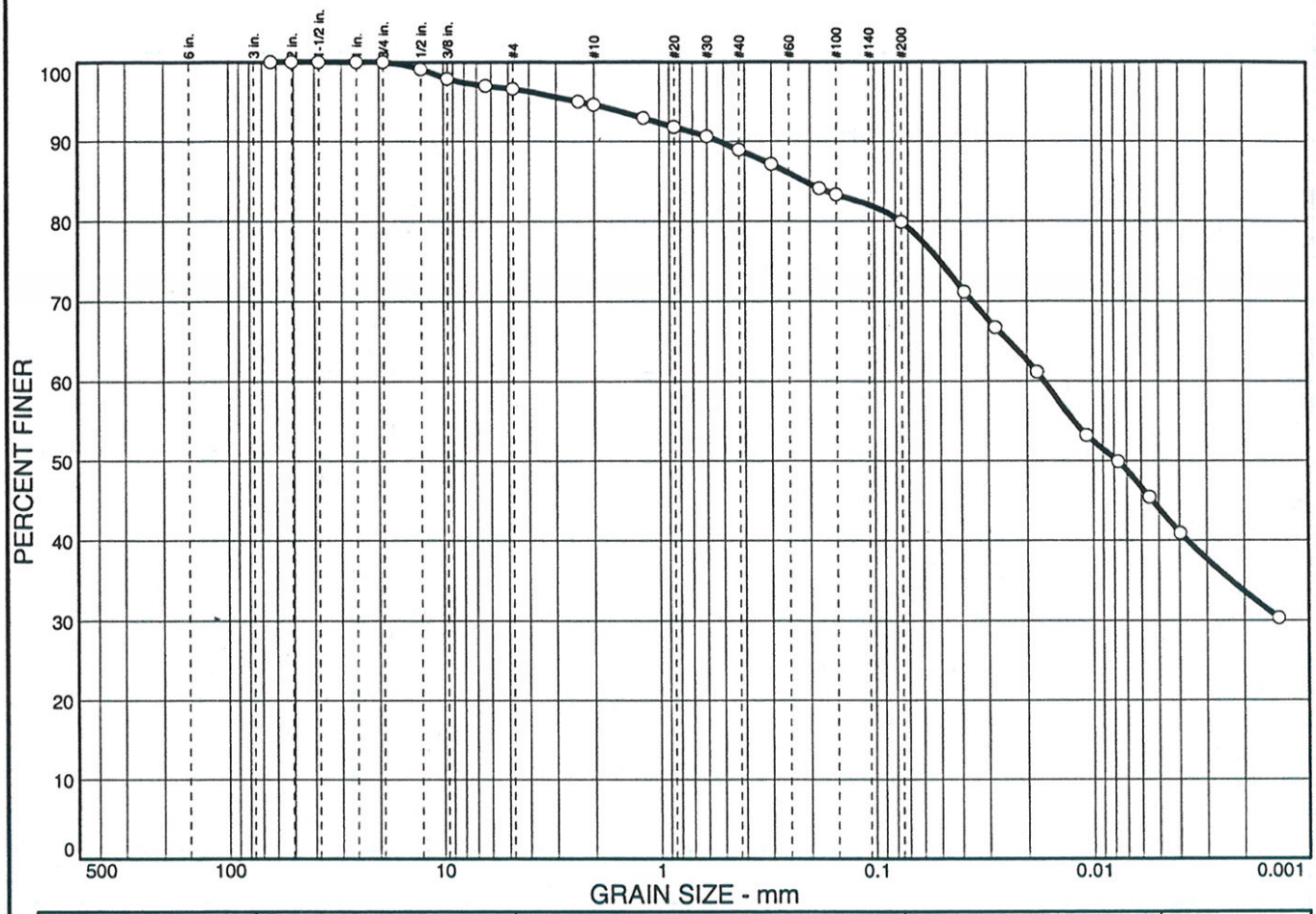
RMT, Inc.

Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

379

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	3.4	16.7	35.9	44.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	99.1		
.375 in.	97.9		
.25 in.	97.0		
#4	96.6		
#8	95.0		
#10	94.6		
#16	92.9		
#20	91.8		
#30	90.6		
#40	88.9		
#50	87.1		
#80	84.1		
#100	83.3		
#200	79.9		

* (no specification provided)

Material Description

Lean clay with sand

Atterberg Limits

PL= 16 LL= 29 PI= 13

Coefficients

D_{85}= 0.212 D_{60}= 0.0167 D_{50}= 0.0077
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CL AASHTO=

Remarks

Sample No.: B-305C, 8-12' **Source of Sample:** B **Date:** 3-8-07
Location: **Elev./Depth:**

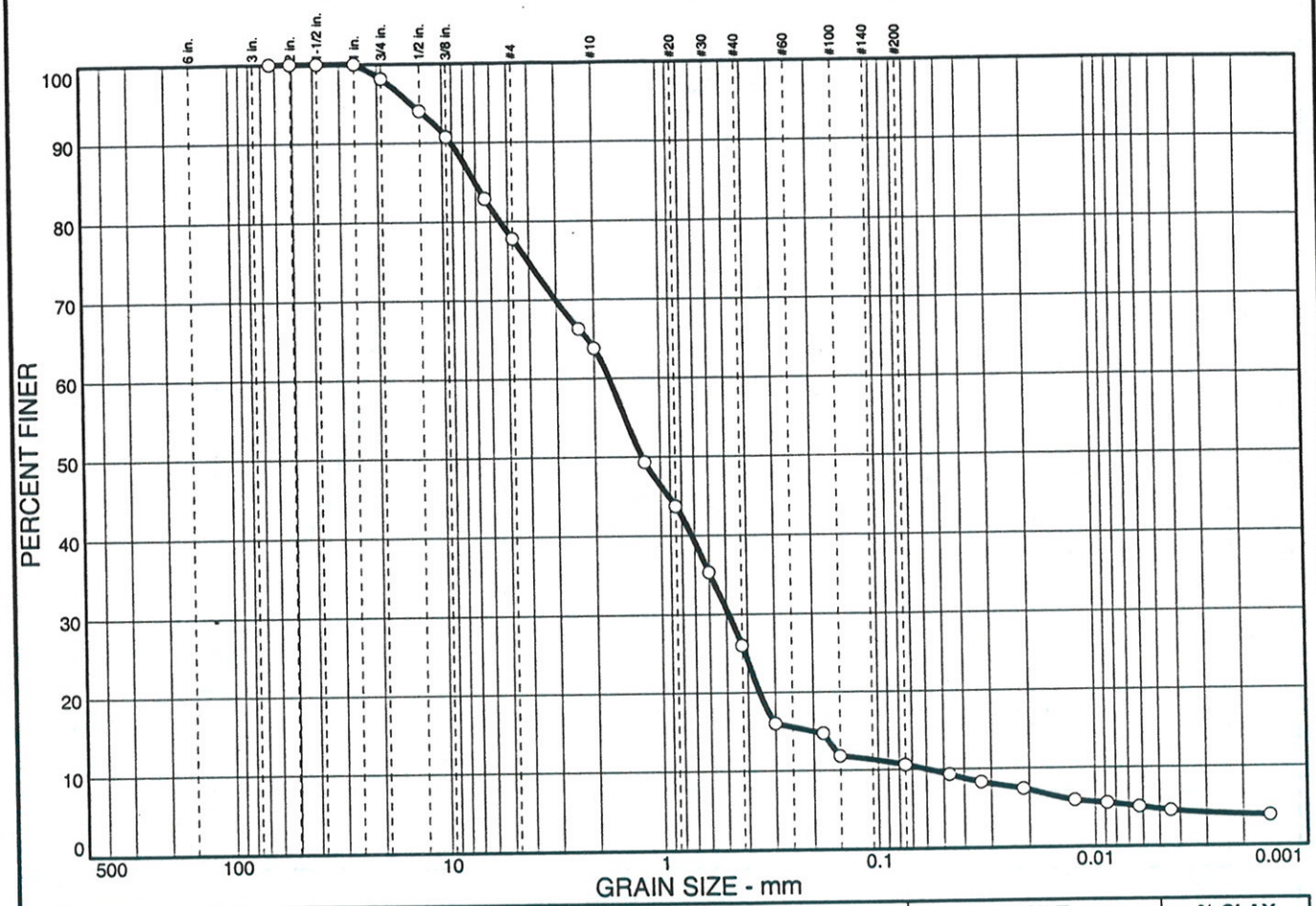
RMT, Inc.

Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

3580

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	22.2	67.2	5.9	4.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	98.1		
.5 in.	94.0		
.375 in.	90.7		
.25 in.	82.9		
#4	77.8		
#8	66.3		
#10	63.8		
#16	49.3		
#20	43.7		
#30	35.3		
#40	26.0		
#50	16.0		
#80	14.7		
#100	11.8		
#200	10.6		

* (no specification provided)

Material Description

Well-graded sand with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{85}= 7.05 D_{60}= 1.71 D_{50}= 1.22
D_{30}= 0.488 D_{15}= 0.203 D_{10}= 0.0594
C_u= 28.82 C_c= 2.34

Classification

USCS= SW-SM AASHTO=

Remarks

Sample No.: B-305C, 92-96.5' **Source of Sample:** B **Date:** 3-8-07
Location: **Elev./Depth:**

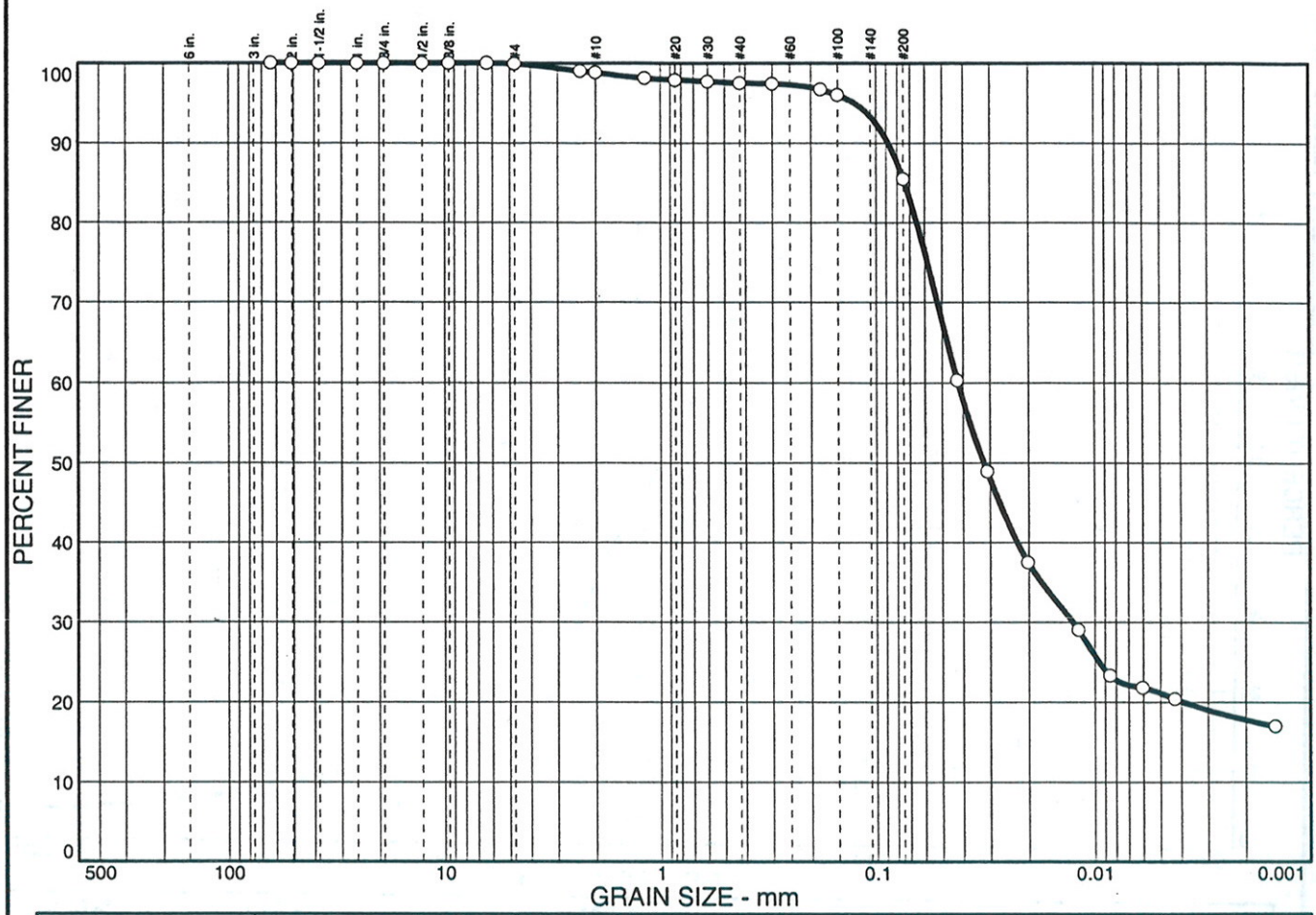
RMT, Inc.

Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

381

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.1	14.4	64.4	21.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	99.9		
#8	99.0		
#10	98.8		
#16	98.1		
#20	97.9		
#30	97.7		
#40	97.5		
#50	97.4		
#80	96.7		
#100	96.0		
#200	85.5		

* (no specification provided)

Material Description

Silt

Atterberg Limits

PL= 14 LL= 15 PI= 1

Coefficients

D_{85}= 0.0739 D_{60}= 0.0422 D_{50}= 0.0321
D_{30}= 0.0126 D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= ML AASHTO=

Remarks

Sample No.: B-305C, 124-129.8' **Source of Sample:** B **Date:** 3-8-07
Location: **Elev./Depth:**

RMT, Inc.

Madison, Wisconsin

Client:
Project: Veolia: EPI
Project No: 20655.17 **Figure:**

382

Groundwater Monitoring Well Information Form (Form 4400-89) for Newly Completed Wells

State of Wisconsin
Department of Natural Resources

GROUNDWATER MONITORING WELL INFORMATION FORM
Chapter 281 and 289, Wis. Stats.
Form 4400-89 Rev. 7-98

Facility Name	Facility ID Number	License, Permit or Monitoring No.	Date	Completed By (Name and Firm)
Veolia Emerald Park Landfill, Inc.	268244130	3290	1/28/2009	Tom Koch, RMT, Inc.

WI Unique Well	Well Name	DNR Well ID Number	Well Location	Dir. N/E	Dir. S/W	Date Established	Well Casing Diam.	Well Casing Type	Elevations Top of Well Casing	Elevations Ground Surface	Reference MSL (Y)	Reference Site Datum (Y)	Depths Screen Top	Depths Initial Groundwater	Depths Well Depth	Screen Length	Well Type	Well Status	Enf. Stds.	Grad-ient	Distance to Waste
			315871	X																	
PI955	MW301A	184	2513563	X		2/7/07	2"	PVC	776.97	775.0	X		7.0		17.0	10'	OW	A	No	D	225'
			315871	X																	
PI954	MW301B	186	2513556	X		2/8/07	2"	PVC	777.03	775.3	X		695		74.5	5'	PZ	A	No	D	225'
			315871	X																	
PI953	MW301C	188	2513567	X		2/1/07	2"	PVC	776.86	775.1	X		1228		127.8	5'	PZ	A	No	D	225'
			314741	X																	
PI951	MW302A	190	2513585	X		1/24/07	2"	PVC	779.14	777.3	X		5.8		15.8	10'	OW	A	No	D	225'
			314739	X																	
PI952	MW302B	192	2513589	X		1/25/07	2"	PVC	778.98	777.3	X		74.6		79.6	5'	PZ	A	No	D	225'
			314742	X																	
PA420	MW302C	194	2513581	X		1/23/07	2"	PVC	779.34	777.3	X		132.1		137.1	5'	PZ	A	No	D	225'
			313333	X																	
PA416	MW303A	196	2513899	X		1/19/07	2"	PVC	779.40	777.5	X		7.9		17.9	10'	OW	A	No	D	175'
			313333	X																	
PA417	MW303B	198	2513903	X		1/22/07	2"	PVC	779.32	777.5	X		70.9		75.9	5'	PZ	A	No	D	175'
			313333	X																	
PA415	MW303C	200	2513894	X		1/19/07	2"	PVC	779.40	777.5	X		133.9		138.9	5'	PZ	A	No	D	175'
			313336	X																	
PA413	MW304A	202	2514258	X		1/11/07	2"	PVC	782.98	781.3	X		7.7		17.7	10'	OW	A	No	D	175'
			313335	X																	
PA414	MW304B	204	2514253	X		1/15/07	2"	PVC	783.51	781.2	X		74.3		79.3	5'	PZ	A	No	D	175'

Location Coordinates Are:
- [x] State Plane Coordinate
  - [ ] Northern
  - [ ] Central
  - [ ] Southern
- [ ] Local Grid System

Grid Origin Location: (Check if estimated: ___)

Lat. ____ ° ____ ' _____ " Long. ____ ° ____ ' ____ " or

St. Plane _____ ft. N. _____ ft. E. S/C/N Zone

Remarks:

Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than $10 nor more than $5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

3B5

I:\WPMSN\PJT\00-20655\22\002065522-005.XLS 1/28/2009

State of Wisconsin
Department of Natural Resources

GROUNDWATER MONITORING WELL INFORMATION FORM
Chapter 281 and 289, Wis. Stats.
Form 4400-89 Rev. 7-98

Facility Name	Facility ID Number	License, Permit or Monitoring No.	Date	Completed By (Name and Firm)
Veolia Emerald Park Landfill, Inc.	268244130	3290	1/28/2009	Tom Koch, RMT, Inc.

WI Unique Well	Well Name	DNR Well ID Number	Well Location	Dir. N E	Dir. S W	Date Established	Well Casing Diam.	Well Casing Type	Elevations Top of Well Casing	Elevations Ground Surface	Reference MSL (Y)	Reference Site Datum (Y)	Depths Screen Top	Depths Initial Groundwater	Depths Well Depth	Screen Length	Well Type	Well Status	Enf. Stds.	Grad-ient	Distance to Waste
			313335	X																	
PA412	MW304C	206	2514264	X		1/10/07	2"	PVC	783.00	781.3	X		121.7		126.7	5'	PZ	A	No	U	175'
			313357	X																	
PA430	MW305A	208	2514635	X		1/12/07	2"	PVC	780.41	778.9	X		5.5		15.5	10'	OW	A	No	D	150'
			313356	X																	
VT600	MW305B	210	2514646	X		1/15/07	2"	PVC	780.60	778.9	X		92.7		97.7	5'	PZ	A	No	D	150'
			313357	X																	
PA429	MW305C	212	2514640	X		1/11/07	2"	PVC	780.42	778.8	X		126.6		131.6	5'	PZ	A	No	U	150'
			315252	X																	
PA419	P311	214	2513733	X		1/23/07	2"	PVC	777.55	775.7	X		7.9		17.9	10'	WT	A	No	D	50'
			314022	x																	
PA418	P312	216	2513767	x		1/23/07	2"	PVC	781.56	779.7	X		7.8		17.8	10'	WT	A	No	D	50'

Location Coordinates Are:
- [X] State Plane Coordinate
  - [ ] Northern
  - [ ] Central
  - [ ] Southern
- [ ] Local Grid System

Grid Origin Location: (Check if estimated: ___)
Lat. ____ ° _____ ' _____ " Long. ____ ° _____ ' _____ " or
St. Plane _____ ft. N. _____ ft. E. S/C/N Zone

Remarks:

Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than $10 nor more than $5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

380/386

I:\WPMSN\PJT\00-20655\22\002065522-005.XLS 1/28/2009