

Revised FR Tables

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Revised Table 1-1. Water Supply Well Summary
Dane County Landfill Site No. 3 / SCS Engineers Project #25222268.00
Feasibility Report Addendum No. 1

Water supply wells within 1,200 ft. of Proposed Landfill fill area	WI Unique Well Number (WUWN)	Well Log	Well Owner	Well Address	Comment
Rathert Private Well	8AP872	Yes	Dane County	3124 Hope Hollow Trail McFarland, WI 53558	To be abandoned
Fluke Private Well	--	No	Amy Marlene Fluke	3098 Hope Hollow Trail McFarland, WI 53558	To be abandoned
Rogers Private Well	--	No	Brian Rogers	3108 Hope Hollow Trail McFarland, WI 53558	To be abandoned
Yahara Well PW-C (aka PW-6) WGNHS Geologic Log DN988	8AP357	Yes	Dane County	4402 Brandt Road Madison, WI 53718	To be abandoned
Yahara Well PW-D (aka PW-3) WGNHS Geologic Log DN985	8AP358	Yes	Dane County	4402 Brandt Road Madison, WI 53718	To be abandoned
Yahara Well PW-E (aka PW-4) WGNHS Geologic Log DN986	FF204	Yes	Dane County	4402 Brandt Road Madison, WI 53718	To be abandoned

Notes:

1. See Appendix C of the February FR for well logs and Plan Sheet 2 for well locations.
2. See Appendix C of the February FR for summary table for abandoned wells and for abandonment forms.

Created by:	<u>REO</u>	Date:	<u>5/12/2023</u>
Last revision by:	<u>BLP</u>	Date:	<u>8/2/2024</u>
Proj Mgr QA/QC:	<u>BLP</u>	Date:	<u>8/2/2024</u>

Revised Table 5-1. NR 512.09 Minimum Required Borings, Water Table Wells and Piezometers
Dane County Landfill Site No. 3 / SCS Engineers Project #25222268.00
Feasibility Report Addendum No. 1

	NR 512.09 Requirements for a 76.6-Acre Site
Borings	40
Water table wells	20
Piezometers	10

Created by: BJS 10/04/2023

Updated by: JR, 1/24/2024

Checked by: BLP, 1/30/24

Notes:

1. The minimum number of borings, wells and piezometers is based on 5 and 10-acre or less increments. Coarse-grained environment assumed. See Table 1 of NR 512.09.
2. Four well nests (water table well and a piezometer) are required inside the proposed footprint per NR 512.09(2)(b).
3. Boring information was collected from water table well and/or well nest locations, thereby reducing the number of boring locations. The number of boring only locations is the total number of borings minus the number of water table well locations (40 borings - 20 water table well locations = 20 boring only locations).

Table 5-2. Borings and Monitoring Wells
Dane County Landfill Site No. 3 / SCS Engineers Project #25222268.00
Feasibility Report Addendum No. 1

Drilling Location ID	Specific Boring or Well ID	Location		Boring	Well	Piezo.	In Fill Area	<150 ft. from Fill Area	150 - 300 ft. from Fill Area	Ground El. (ft. amsl)	Deepest Boring (ft. bgs)	Deepest Boring Bottom El. (ft. amsl)	Subbase El. ⁽¹⁾ (ft. amsl)	Boring Depth Below Subbase El. (ft.)
		Northing	Easting											
Feasibility Investigation Borings Within 300 Feet of Proposed Fill Area														
1	B-1	379,853.7	2,168,431.9	X					X	875.0	60.0	815.0	872.2	57.2
	MW-1	379,849.0	2,168,438.0		X									
2	B-2	378,835.5	2,169,372.4				X							
	B-2A	378,835.5	2,169,372.4	X						892.3	36.0	856.3	890.0	33.7
	MW-2	378,836.0	2,169,374.0		X									
5	B-5	379,624.2	2,169,376.1				X							
	B-5A	379,624.2	2,169,376.1	X						883.1	36.0	847.1	875.5	28.4
6	B-6	379,082.1	2,167,735.0						X					
	B-6A	379,080.0	2,167,735.0	X						882.3	35.5	846.8	876.6	29.8
7	B-7	378,831.0	2,168,301.0	E			X			901.3	43.5	857.8	881.7	23.9
8	B-8	377,946.0	2,168,041.0	X			X			901.7	30.0	871.7	898.3	26.6
10	B-10	377,666.7	2,169,421.4	X			X			916.9	53.6	863.3	919.5	56.2
11	B-11	378,106.5	2,169,439.0	X			X			904.6	41.0	863.6	905.6	42.0
108	B-108	379,492.0	2,167,830.9	X				X		875.4	40.0	835.4	872.3	36.9
	MW-108	379,492.0	2,167,830.9		X									
109	MW-109	379,244.1	2,168,351.8		X		X							
	MW-109A	379,247.1	2,168,349.9	X		X				895.8	71.5	824.3	874.6	50.3
110	MW-110	379,206.0	2,169,102.0		X		X							
	MW-110A	379,205.6	2,169,107.9	X		X				895.5	56.0	839.5	883.5	44.0
	ST-110	379,206.0	2,169,102.0											
111	B-111C	379,277.3	2,169,693.5	X			X			883.9	41.4	842.5	880.2	37.7
	MW-111	379,277.3	2,169,693.5		X									
	ST-111	379,277.3	2,169,693.5											
112	B-112	378,723.7	2,168,712.5				X							
	B-112B	378,723.7	2,168,712.5											
	B-112C	378,723.7	2,168,712.5	X						899.0	43.0	856.0	890.7	34.7
	MW-112	378,723.7	2,168,712.5		X									
113	MW-113	378,409.9	2,167,782.4		X				X					
	MW-113A	378,412.1	2,167,779.2	X		X				916.6	68.0	848.6	894.0	45.4
114	MW-114	378,420.5	2,168,480.2		X		X							
	MW-114A	378,415.0	2,168,485.0	X		X				897.1	50.0	847.1	892.7	45.6

Table 5-2. Borings and Monitoring Wells
Dane County Landfill Site No. 3 / SCS Engineers Project #25222268.00
Feasibility Report Addendum No. 1

Drilling Location ID	Specific Boring or Well ID	Location		Boring	Well	Piezo.	In Fill Area	<150 ft. from Fill Area	150 - 300 ft. from Fill Area	Ground El. (ft. amsl)	Deepest Boring (ft. bgs)	Deepest Boring Bottom El. (ft. amsl)	Subbase El. ⁽¹⁾ (ft. amsl)	Boring Depth Below Subbase El. (ft.)
		Northing	Easting											
115	B-115C	378,503.9	2,169,031.4	X			X			896.3	40.0	856.3	896.2	39.9
	MW-115	378,503.9	2,169,031.4		X									
116	MW-116	378,468.4	2,169,727.7		X			X						
	MW-116A	378,476.8	2,169,728.0	X		X				900.8	60.4	840.4	895.9	55.5
	ST-116	378,468.4	2,164,727.7											
117	MW-117	377,912.9	2,168,366.8		X		X							
	MW-117A	377,911.0	2,168,363.2	X		X				899.7	51.0	848.7	898.5	49.8
118	MW-118	377,988.6	2,169,160.6		X		X							
	MW-118A	377,985.4	2,169,163.6	X		X				901.8	52.8	849.0	900.7	51.7
119	MW-119	378,019.0	2,169,755.6	X	X			X		919.3	49.0	870.3	908.9	38.6
	ST-119	378,019.0	2,169,755.6											
120	MW-120	377,642.1	2,167,842.4		X			X						
	MW-120A	377,643.4	2,167,837.9	X		X				907.3	50.5	856.8	901.6	44.8
121	B-121C	377,615.3	2,168,255.7	X			X			903.6	41.0	862.6	900.6	38.0
	MW-121	377,615.3	2,168,255.7		X									
122	B-122	377,547.7	2,169,046.5	X				X		910.0	43.0	867.0	904.2	37.2
	MW-122	377,547.7	2,169,046.5		X									
123	MW-123	377,597.9	2,169,698.2					X						
	MW-123A	377,590.6	2,169,697.1	X		X				930.5	93.0	837.5	920.8	83.3
	MW-123B	381,798.0	2,197,338.5		X									
125	MW-125	377,275.2	2,169,006.3		X				X					
	MW-125A	377,276.3	2,169,010.0	X		X				915.6	58.7	856.9	905.3	48.4
212	B-212	379,823.3	2,168,049.2	X					X	870.9	40.0	830.9	870.8	39.9
213	B-213	379,579.3	2,168,300.2	X			X			884.2	40.0	844.2	870.4	26.2
214	B-214	379,569.5	2,168,653.1	E			X			888.8	40.0	848.8	872.3	23.5
215	B-215	379,646.4	2,168,962.6	E			X			885.3	34.0	851.3	874.8	23.5
216	B-216	379,277.4	2,168,017.2	X			X			883.0	37.0	846.0	874.2	28.2
217	B-217	379,187.2	2,168,816.5				X							
	B-217C	379,187.2	2,168,816.5	X						902.3	51.5	850.8	885.8	35.0
218	B-218	379,292.1	2,169,463.7				X							
	B-218C	379,292.1	2,169,463.7	X						889.0	40.6	848.4	879.3	30.9
	ST-218	379,292.1	2,169,463.7											

Table 5-2. Borings and Monitoring Wells
Dane County Landfill Site No. 3 / SCS Engineers Project #25222268.00
Feasibility Report Addendum No. 1

Drilling Location ID	Specific Boring or Well ID	Location		Boring	Well	Piezo.	In Fill Area	<150 ft. from Fill Area	150 - 300 ft. from Fill Area	Ground El. (ft. amsl)	Deepest Boring (ft. bgs)	Deepest Boring Bottom El. (ft. amsl)	Subbase El. ⁽¹⁾ (ft. amsl)	Boring Depth Below Subbase El. (ft.)
		Northing	Easting											
219	B-219	378,846.4	2,168,087.0				X							
	B-219C	378,846.4	2,168,087.0	X						901.8	50.0	851.8	880.4	28.6
220	B-220	378,850.2	2,169,022.5				X							
	B-220A	378,850.2	2,169,022.5											
	B-220C	378,850.2	2,169,022.5	X						899.0	44.0	855.0	893.0	38.0
	ST-220	378,850.2	2,169,022.5											
221	B-221	378,832.2	2,169,690.1					X						
	B-221C	378,832.2	2,169,690.1	X						892.8	40.0	852.8	886.9	34.1
222	B-222	378,424.8	2,168,164.3				X							
	B-222C	378,424.8	2,168,164.3	X						900.2	43.0	857.2	893.6	36.4
223	B-223	378,445.6	2,169,403.2				X							
	B-223C	378,445.6	2,169,403.2	X						900.3	40.8	859.5	896.8	37.3
	ST-223	378,445.6	2,169,403.2											
224	B-224	378,047.5	2,167,866.2					X						
	B-224C	378,047.5	2,167,866.2	X						906.9	46.0	860.9	897.7	36.8
225	B-225	377,948.3	2,168,814.1				X							
	B-225C	377,948.3	2,168,814.1	X						904.2	40.6	863.6	902.4	38.8
226	B-226	377,533.4	2,168,775.5					X						
	B-226C	377,533.4	2,168,775.5	X						906.7	40.7	866.0	902.6	36.6
	Total Within 300 Feet of Fill Area			40	19	10								
Supplemental Borings More than 300 Feet from Proposed Fill Area														
3	B-3	378,224.9	2,166,911.2	○						895.9	37.0	858.9	895.9	37.0
	MW-3	378,218.0	2,166,911.0		○									
4	MW-4	377,202.0	2,168,283.0	○	○					911.7	31.0	880.7	900.6	19.9
9	B-9	377,612.7	2,166,186.5	○						901.7	22.9	878.8	901.6	22.8
105	MW-105	380,064.0	2,167,905.9		○									
	MW-105A	380,068.7	2,167,909.4	○		○				869.7	50.0	819.7	871.6	51.9
106	B-106	380,184.8	2,168,531.1	○						874.9	40.0	834.9	871.7	36.8
	MW-106	380,184.8	2,168,531.1		○									
107	B-107	379,946.4	2,169,170.1	○						878.0	50.0	828.0	875.2	47.2
	MW-107	379,947.1	2,169,171.0		○									

Table 5-2. Borings and Monitoring Wells
Dane County Landfill Site No. 3 / SCS Engineers Project #25222268.00
Feasibility Report Addendum No. 1

Drilling Location ID	Specific Boring or Well ID	Location		Boring	Well	Piezo.	In Fill Area	<150 ft. from Fill Area	150 - 300 ft. from Fill Area	Ground El. (ft. amsl)	Deepest Boring (ft. bgs)	Deepest Boring Bottom El. (ft. amsl)	Subbase El. ⁽¹⁾ (ft. amsl)	Boring Depth Below Subbase El. (ft.)
		Northing	Easting											
124	B-124C	377,199.8	2,167,822.8											
	MW-124	377,199.8	2,167,822.8		O									
	MW-124A	377,202.1	2,167,830.2	O		O				917.0	56.5	860.5	901.6	41.1
126	B-126	378,795.4	2,167,301.3	O						880.3	5.0	875.3	884.6	9.3
227	B-227	377,192.1	2,168,624.0											
	B-227C	377,192.1	2,168,624.0	O						911.1	45.6	865.5	902.6	37.1
228	B-228	377,263.3	2,169,326.5											
	B-228C	377,263.3	2,169,326.5	O						932.2	64.1	868.1	912.2	44.1
229	B-229	377,272.3	2,169,720.2	O						924.2	6.0	918.2	920.2	2.0
	B-229C	377,272.3	2,169,720.2											
230	B-230	378,701.0	2,166,492.8	O						868.9	25.5	843.4	887.3	43.9
231	B-231	376,568.7	2,166,730.0	O						911.4	21.0	890.4	901.6	11.2
232	B-232	377,857.0	2,167,319.9	O						913.2	31.5	881.7	899.6	17.9
233	B-233	376,885.6	2,167,404.5	O						929.0	8.5	920.5	901.6	-18.9
Total for Supplemental Locations				15	6	2								
Total for All Investigation Locations				55	25	12								

Notes: O Located greater than 300 ft from fill area; not included in count toward required minimum number under NR 512.09

E Located within 300 ft from fill area and included in count; exemption requested for boring less than 25 feet below subbase

(1) Subbase elevations are the elevations of the bottom of the clay layer as shown on Plan Sheet 23 - Proposed Subbase Grades and Underdrain. The closest floor subbase elevation was chosen for borings beyond the proposed fill area or on the proposed liner sideslope.

33 borings, located within 300 ft from the fill area, meet the NR 512.09 (1) (c) requirement for extending more than 5 feet into bedrock (see Table 9-1).

Prepared by:	<u>BR</u>	Date:	<u>7/5/2023</u>
Revised by:	<u>SCC</u>	Date:	<u>8/1/2024</u>
Checked by:	<u>BLP</u>	Date:	<u>8/2/2024</u>

**Revised Table 11-6. Estimated Service Area Disposal Rate and Remaining Capacity
WITH the Proposed Landfill
Dane County Landfill Site No. 3 / SCS Engineers Project #25222268.00
Feasibility Report Addendum No. 1**

YEAR	AVAILABLE WASTE DISPOSAL CAPACITY (cy) ⁽¹⁾	ESTIMATED WASTE DISPOSAL RATE FROM SERVICE AREA (cy/yr) ⁽²⁾	REMAINING YEARS OF DISPOSAL CAPACITY
2024	7,346,463	1,138,496	6
2025	6,207,967	1,163,339	5
2026	5,044,628	1,188,724	4
2027	3,855,904	1,214,663	3
2028	14,823,541	1,241,168	12
2029	13,582,373	1,268,251	11
2030	12,314,121	1,295,926	10
2031	11,018,195	1,324,204	8
2032	9,693,991	1,353,099	7
2033	8,340,892	1,382,625	6
2034	6,958,267	1,412,795	5
2035	5,545,472	1,443,624	4
2036	4,101,848	1,475,125	3
2037	2,626,723	1,507,313	2
2038	1,119,410	1,540,204	1
2039	--	1,573,813	--
2040	--	1,608,155	--
2041	--	1,643,246	--
2042	--	1,679,103	--
2043	--	1,715,743	--
2044	--	1,753,182	--

Notes:

- 1) Based on the projected available capacity in the year 2024 from Table 11-2, including 12,182,300 cubic yards for the proposed Dane County Landfill Site No. 3 volume starting in 2028.
- 2) Waste disposal volume of the service area (the waste disposed of at the landfill facilities within the service area, see Table 11-2) increased annually based on population projections (2.18%, see Table 11-3).

Created by: JMS
Last revision by: BLP
Proj Mgr QA/QC: BLP

Date: 3/1/2023
Date: 6/7/2024
Date: 7/26/2024

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Table 11-8. Site Life Analysis
Dane County Landfill Site No. 3 / SCS Engineers Project #25222268.00
Feasibility Report Addendum No. 1

YEAR	ANNUAL ESTIMATED WASTE INTAKE (tons) ⁽¹⁾⁽³⁾	ANNUAL ESTIMATED WASTE INTAKE (cy) ⁽²⁾	ANNUAL ESTIMATED DAILY COVER USE (cy) ⁽³⁾	ESTIMATED CAPACITY AT BEGINNING OF YEAR (cy) ⁽⁴⁾
2023	327,070	436,093	---	---
2024	348,270	464,361	---	---
2025	370,845	494,460	---	---
2026	394,883	526,510	---	---
2027	420,479	560,638	---	---
2028	447,734	596,978	85,283	12,182,300
2029	476,755	635,674	90,811	11,500,039
2030	507,658	676,878	96,697	10,773,554
2031	540,564	720,752	102,965	9,999,980
2032	575,603	767,471	109,639	9,176,263
2033	612,913	817,218	116,745	8,299,153
2034	652,642	870,189	124,313	7,365,190
2035	694,945	926,594	132,371	6,370,689
2036	739,991	986,655	140,951	5,311,724
2037	787,957	1,050,609	150,087	4,184,119
2038	839,031	1,118,708	159,815	2,983,423
2039	893,416	1,191,222	170,175	1,704,899
2040	951,327	1,268,436	181,205	343,503
2041	1,012,991	1,350,655	192,951	CLOSED
2042	1,078,652	1,438,203	205,458	
2043	1,148,569	1,531,426	218,775	
2044	1,223,019	1,630,692	232,956	

Notes:

- 1) Predicted annual waste intake was calculated starting with the 2023 intake rate and applying an annual increase of 6.48% which was the annual increase in waste intake observed at the currently active Dane County Landfill Site No. 2 between 2018 and 2023 (refer to Table 11-7).
- 2) Volume of waste intake estimated utilizing an average waste density of 1,500 lb/cy.
- 3) Ratio of 1 part daily cover to 7 parts waste used to determine the amount of airspace consumed by daily cover soils.
- 4) Assumes new landfill opens in 2028. Prior years shown to document annual increase in waste intake based on Note 1.

Created by: REO
Last revision by: BLP
Proj Mgr QA/QC: BLP

Date: 5/12/2023
Date: 6/7/2024
Date: 7/26/2024