



City Hall, 215 Sycamore St.
Muscatine, IA 52761-3899
(563) 264-1550
Fax (563) 264-0750

FINANCE & RECORDS

March 19, 2025

Mr. Michael Sullivan
Iowa Department of Natural Resources
Wallace State Office Building
Des Moines, IA 50319

Dear Mr. Sullivan:

Enclosed is the Financial Assurance Annual Report and related attachments for the Muscatine County Landfill (Permit 70-SDP-2-75P). The attachments are as follows:

1. Financial Assurance Annual Report.
2. Letter from the chief financial officer for the "Local Government Financial Test".
3. Closure and Post-Closure Cost Estimates prepared by SCS Engineers
4. The Annual Comprehensive Financial Report for the City of Muscatine for the year ended June 30, 2024, can be found at:

<https://www.muscatineiowa.gov/DocumentCenter/View/30506/Annual-Comprehensive-Financial-Report-for-the-Year-ended-June-30-2024-PDF>

See the Muscatine County Solid Waste Agency column on the Statement of Net Position on pages 35-36 and Note 7 on page 76 for verification of the assets restricted for closure and post-closure costs. Copies of those pages are also attached.

Please contact me if you have any questions or need any additional information. Thank you for your assistance.

Sincerely,

Nancy A. Lueck
Finance Director

Enclosures



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(563) 264-1550
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FINANCE & RECORDS

March 19, 2025

Iowa Department of Natural Resources
Planning, Permitting & Engineering Services
Wallace State Office Building
502 E 9th Street
Des Moines, IA 50319

Dear Sir or Madam:

I am the chief financial officer of the City of Muscatine, operator of the Muscatine County Sanitary Landfill, for the Muscatine County Solid Waste Management Agency. This letter is in support of the City of Muscatine's use of the Financial Test to demonstrate financial assurance for closure and post-closure care costs, as specified in IAC 567 Chapter 113.14(3) and 113.14(4).

The City of Muscatine is the operator of the following Municipal Solid Waste Landfill for which financial assurance for closure and post-closure care is demonstrated through the Financial Test, as specified in IAC 567 Chapter 113.14(6)"f":

Landfill Name: Muscatine County Sanitary Landfill

Address: Muscatine County, Iowa

Permit No: 70-SDP-2-75 P

The current closure and/or post-closure cost estimates, in accordance with IAC 567 Chapter 113.14(3) and 113.14(4), are shown below for each facility covered by the Financial Test:

Closure cost to be assured: \$2,144,287

Post-closure cost to be assured: \$ 917,391

Corrective Action cost to be assured: \$ 140,589

The City of Muscatine meets or exceeds the Financial Test criteria as shown in Alternative I (attached) and agrees to comply with the reporting requirements as specified in subrule 113.14(6)"f".

As chief financial officer for the City of Muscatine, I hereby certify that the information provided in this letter is true to the best of my knowledge and that this letter is being submitted in accordance with IAC 567 Chapter 113.14(6)"f" for the "Local Government Financial Test".

Sincerely,

Nancy A. Lueck
Finance Director

**"I remember Muscatine for its sunsets. I have never seen any
on either side of the ocean that equaled them" — Mark Twain**

Finance Director

The figures for the following items are derived from the City of Muscatine's independently audited, year-end financial statements/audit report for the latest completed fiscal year, ended June 30, 2024. MD&A on page 23 of Audit plus Solid Waste Agency pages 37-38.

Alternative I

1. Sum of the current closure and postclosure cost estimates being assured by the financial test.	\$3,202,267	\$3,142,101
	From most recent annual auditor's report	From 2nd most recent annual auditor's report
2. Total Revenues for past two years	\$66,839,356	\$56,007,355
3. Total Expenditures for past two years	\$54,513,384	\$50,755,160
4. Current bond rating of most recent outstanding general obligation bonds	Aa2	Aa2
Must be able to answer "yes" or "true" to the following		
	Yes/True	No/False
5. Has evidence been provided of most recent bond rating?	Yes	
6. Are outstanding general obligation bonds rated at least Aaa, Aa, A, or Baa, as issued by Moody's or AAA, AA, A or BBB, as issued by Standard & Poor's?	Yes	
7. There are no outstanding general obligation bonds that are currently in default?	True	
8. There are no outstanding general obligation bonds rated lower than Baa as issued by Moody's or BBB as issued by Standard & Poor's	True	
9. Have financial statements (audit) been prepared in conformity with Generally Accepted Accounting Principles or with Other Comprehensive Basis of Accounting?	Yes	
10. Is line 3 less than line 2 in each of the past two years?	Yes	
11. If answered "no" to line 10, is the difference between line 3 and line 2 less than 5 percent of line 2 in each of the past two years?	N/A	
12. Is line 1 less than 43 percent of line 2?	Yes	
13. Have not received an adverse opinion or disclaimer of opinion from the independent certified public accountant or office of the auditor of the state of Iowa	True	
14. Have closure and postclosure costs being assured been referenced in the owner's most recent audit report or instead placed in the owner's files if timing did not permit reference in the most recent audit?	Yes	

Definitions:

"Deficit" – means total annual revenues minus total annual expenditures.

"Total revenues" – means revenues from all taxes and fees but does not include the proceeds from borrowing or asset sales, excluding revenue from funds managed by local government on behalf of a specific third party.

"Total expenditures" – means all expenditures excluding capital outlays and debt repayment.

"Cash plus marketable securities" – means all the cash plus marketable securities held by the local government on the last day of a fiscal year, excluding cash and marketable securities designated to satisfy past obligations such as pensions

"Debt service" – means the amount of principal and interest due on a loan in a given time period, typically the current year.

City of Muscatine, Iowa
Statement of Net Position
June 30, 2024

*

	Primary Government			Component Units	
	Governmental Activities	Business-type Activities	Total	Muscatine County Solid Waste Agency	Muscatine Power & Water
ASSETS					
Cash and pooled investments	\$ 28,345,015	\$ 16,383,583	\$ 44,728,598	\$ 2,360,226	\$ 20,840,200
Investments	1,418,791	935,478	2,354,269	-	53,994,749
Receivables (net of allowance for uncollectibles):					
Interest	419,003	239,850	658,853	85,655	1,374,982
Taxes	19,440,035	-	19,440,035	-	-
Accounts	566,475	2,006,330	2,572,805	-	9,498,796
Intergovernmental	1,573,920	335,273	1,909,193	-	-
Lease receivables	812,738	509,163	1,321,901	-	-
Internal balances	(1,025,866)	1,025,866	-	-	-
Inventories	142,627	49,428	192,055	-	26,820,943
Prepays	12,609	9,860	22,469	-	1,353,139
Restricted assets:					
Temporarily restricted:					
Cash and pooled investments	-	196,326	196,326	3,252,317	946,700
Restricted accrued interest	-	10,802	10,802	-	-
Capital assets:					
Land, art work and construction in progress, not being depreciated	20,789,336	9,517,777	30,307,113	1,120,958	7,689,069
Other capital assets net of accumulated depreciation	75,135,174	93,109,573	168,244,747	379,768	-
Utility plant in service	-	-	-	-	113,029,858
Intangible assets (net of accumulated amortization)	123,780	-	123,780	-	-
Joint venture rights	-	-	-	-	144,450
Total assets	147,753,637	124,329,309	272,082,946	7,198,924	235,692,886
DEFERRED OUTFLOWS OF RESOURCES					
Pension related deferred outflows	4,315,981	865,825	5,181,806	-	18,365,540
OPEB related deferred outflows	469,721	141,142	610,863	-	263,490
Plant decommissioning	-	-	-	-	10,418,452
Total deferred outflows of resources	4,785,702	1,006,967	5,792,669	-	29,047,482
LIABILITIES					
Accounts payable and accruals	2,520,401	2,549,201	5,069,602	80,528	7,521,456
Retainages payable	49,146	459,703	508,849	-	-
Deposits	-	43,317	43,317	-	1,285,912
Accrued interest payable	63,153	13,344	76,497	-	-
Escrow liability	129,250	-	129,250	-	-
Unearned revenue	1,812,431	35,484	1,847,915	-	28,165,234
Liabilities payable from restricted assets:					
Current installment of long-term debt	84,873	-	84,873	-	445,000
Accrued interest payable	-	-	-	-	41,808
Noncurrent liabilities:					
Due within one year	3,934,773	1,158,517	5,093,290	2,898	1,811,781
Due in more than one year	34,034,621	9,604,880	43,639,501	5,039,612	56,098,146
Total liabilities	42,628,648	13,864,446	56,493,094	5,123,038	95,369,337
DEFERRED INFLOWS OF RESOURCES					
Pension related deferred inflows	509,146	90,357	599,503	-	499,010
OPEB related deferred inflows	94,645	28,440	123,085	-	106,903
Deferred inflow - property taxes	18,695,744	-	18,695,744	-	-
Deferred inflow - leases	797,366	479,044	1,276,410	-	-
Total deferred inflows of resources	20,096,901	597,841	20,694,742	-	605,913

(Continued)



	Primary Government			Component Units	
	Governmental Activities	Business-type Activities	Total	Muscatine County Solid Waste Agency	Muscatine Power & Water
(Continued)					
NET POSITION					
Net investment in capital assets	77,911,738	93,732,592	171,644,330	1,500,726	100,983,968
Restricted for:					
Debt service	128,120	173,303	301,423	-	904,892
Public works	5,364,329	-	5,364,329	-	-
Community and economic development	784,036	-	784,036	-	-
Public safety	16,943	-	16,943	-	-
Employee benefits	253,212	-	253,212	-	-
Tax increment financing projects	1,102,367	-	1,102,367	-	-
Capital projects	4,540,443	-	4,540,443	-	-
Perpetual care, nonexpendable	923,497	-	923,497	-	-
Endowments:					
Nonexpendable	132,000	-	132,000	-	-
Expendable	829,316	-	829,316	-	-
Unrestricted	(2,172,211)	16,968,094	14,795,883	575,160	66,876,258
Total net position	\$ 89,813,790	\$ 110,873,989	\$ 200,687,779	\$ 2,075,886	\$ 168,765,118

The notes to the financial statements are an integral part of this statement.

 **NOTE 7. LANDFILL CLOSURE AND POSTCLOSURE CARE COST**

State and federal laws and regulations require the Muscatine County Solid Waste Management Agency to place a final cover on its landfill site when it stops accepting waste and to perform certain maintenance and monitoring functions at the site for thirty years after closure.

Although closure and post closure care costs will be paid only near or after the date that the landfill stops accepting waste, the Agency reports a portion of these closure and post closure care costs as an operating expense in each period based on landfill capacity used as of each balance sheet date. The \$5,035,576 reported as landfill closure and post closure care liability at June 30, 2024, represents the cumulative amount reported to date based on the use of 82% of the estimated capacity of the current landfill property. The Agency will recognize the remaining estimated cost of closure and post closure care of \$1,130,435 as the remaining estimated capacity is filled over the 11 remaining years.

These amounts are based on what it would cost to perform all closure and post closure care in 2024. The Agency expects the currently-permitted landfill property to reach its capacity in 2035. Actual costs may be higher due to inflation, changes in technology, or changes in regulations. Financial assurances for closure and post-closure care is demonstrated through the Financial Test as specified in IAC 567 Chapter 113.14(6)f. The Agency has begun to accumulate resources to fund these costs in accordance with state and federal requirements.

NOTE 8. RETIREMENT SYSTEMS

Iowa Public Employees Retirement System (IPERS) Pension Plan

Plan Description – IPERS membership is mandatory for employees of the City, except for those covered by another retirement system. Employees of the City are provided with pensions through a cost-sharing multiple employer defined benefit pension plan administered by Iowa Public Employees' Retirement System (IPERS). IPERS issues a stand-alone financial report which is available to the public by mail at 7401 Register Drive, P.O. Box 9117, Des Moines, Iowa 50306-9117 or at www.ipers.org.

IPERS benefits are established under Iowa Code chapter 97B and the administrative rules thereunder. Chapter 97B and the administrative rules are the official plan documents. The following brief description is provided for general informational purposes only. Refer to the plan documents for more information.

Pension Benefits – A regular member may retire at normal retirement age and receive monthly benefits without an early-retirement reduction. Normal retirement age is age 65, any time after reaching age 62 with 20 or more years of covered employment, or when the member's years of service plus the member's age at the last birthday equals or exceeds 88, whichever comes first. Members cannot begin receiving retirement benefits before age 55. The formula used to calculate a regular member's monthly IPERS benefit includes:

- A multiplier based on years of service.
- The member's highest five-year average salary, except members with service before June 30, 2012 will use the highest three-year average salary as of that date if it is greater than the highest five-year average salary.

Protection occupation members may retire at normal retirement age which is generally at age 55 and may retire any time after reaching age 50 with 22 or more years of covered employment. The formula used to calculate a protection occupation members' monthly IPERS benefit includes:

ISSUER COMMENT

24 February 2025

RATING

Issuer Rating¹

Aa2

No Outlook

City of Muscatine, IA

Update to credit metrics

Issuer profile

The city of Muscatine is the county seat of Muscatine County, located in eastern Iowa, approximately 50 miles southeast of Cedar Rapids. It is bounded on the east by the Mississippi River and the Illinois state line.

Key indicators

Exhibit 1

Muscatine (City of) IA

	2021	2022	2023	2024	Aa Medians
Economy					
Resident income ratio (%)	91.9%	91.6%	N/A	N/A	114.1%
Full Value (\$000)	\$1,556,386	\$1,724,570	\$1,931,953	N/A	\$2,888,367
Population	23,759	23,671	N/A	N/A	22,430
Full value per capita (\$)	\$65,507	\$72,856	N/A	N/A	\$125,640
Annual Growth in Real GDP	2.2%	0.8%	-2.9%	N/A	2.0%
Financial Performance					
Revenue (\$000)	\$50,565	\$51,909	\$57,386	\$61,451	\$52,335
Available fund balance (\$000)	\$24,626	\$24,301	\$26,571	\$27,073	\$29,526
Net unrestricted cash (\$000)	\$32,176	\$33,781	\$33,281	\$47,083	\$41,432
Available fund balance ratio (%)	48.7%	46.8%	46.3%	44.1%	57.1%
Liquidity ratio (%)	63.6%	65.1%	58.0%	76.6%	79.6%
Leverage					
Debt (\$000)	\$23,177	\$26,279	\$23,349	\$29,324	\$37,305
Adjusted net pension liabilities (\$000)	\$92,467	\$77,448	\$52,312	\$50,826	\$45,496
Adjusted net OPEB liabilities (\$000)	\$1,277	\$1,177	\$1,303	\$1,335	\$4,376
Other long-term liabilities (\$000)	\$2,257	\$2,259	\$2,233	\$2,350	\$1,726
Long-term liabilities ratio (%)	235.7%	206.4%	138.0%	136.4%	210.2%
Fixed costs					
Implied debt service (\$000)	\$1,907	\$1,626	\$1,835	\$1,622	\$2,477
Pension tread water contribution (\$000)	\$2,347	\$1,161	\$1,932	N/A	\$1,199
OPEB contributions (\$000)	\$194	\$407	\$97	\$53	\$179
Implied cost of other long-term liabilities (\$000)	\$151	\$158	\$158	\$155	\$115
Fixed-costs ratio (%)	9.1%	6.5%	7.0%	6.1%	9.6%

For definitions of the metrics in the table above please refer to the [US Cities and Counties Methodology](#) or see the Glossary in the Appendix below. Metrics represented as N/A indicate the data were not available at the time of publication. The medians come from our most recently published [US Cities and Counties Median Report](#).

The real GDP annual growth metric cited above is for the Muscatine County, Iowa Metropolitan Statistical Area.

Sources: US Census Bureau, Muscatine (City of) IA's financial statements and Moody's Ratings, US Bureau of Economic Analysis

Analyst Contacts

Nathan Carley +1.312.706.9958
AVP-Analyst
nathan.carley@moodys.com

Gera M. McGuire +1.214.979.6850
Associate Managing Director
gera.mcguire@moodys.com

CLIENT SERVICES

Americas 1-212-553-1653

Asia Pacific 852-3551-3077

Japan 81-3-5408-4100

EMEA 44-20-7772-5454



March 17, 2025
File No. 27223255.25

Ms. Nancy Lueck
City of Muscatine
215 Sycamore Street
Muscatine, Iowa 52761

Subject: 2025 Financial Assurance
Muscatine County Sanitary Landfill
Permit No. 70-SDP-02-75P

Dear Ms. Lueck:

SCS Engineers (SCS) is providing the enclosed documentation to be included in the 2025 Financial Assurance submittal to the Iowa Department of Natural Resources for the Muscatine County Sanitary Landfill (Landfill). Attached is the completed DNR Municipal Solid Waste Sanitary Landfill Financial Assurance Report Form for the year 2025. No cell construction occurred at the Landfill since the 2024 closure, post-closure, and corrective action cost estimates were prepared; therefore, the previously certified cost estimates were utilized with the application of the 2025 inflation factor (1.024) to calculate the 2025 closure, post-closure, and corrective action cost estimates. Attachment A contains the 2025 third-party cost estimates as required by the Iowa Administrative Code and the Landfill's operating permit.

If you have any questions or comments, please contact us at (515) 631-6160.

Sincerely,



Chris T. Calhoun
Project Professional
SCS Engineers



Christine L. Collier, P.E.
Senior Project Manager
SCS Engineers


Encl. Attachment A - 2025 Financial Assurance Cost Estimate

CTC/CLC

cc: Mr. Dave Popp, Solid Waste Manager, Muscatine Recycling Center and Transfer Station
Electronic File



Certification

	<p>I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the state of Iowa.</p>
	<p><i>Christine L. Collier</i> Christine L. Collier, P.E.</p> <p>Christine L. Collier Date</p>
	<p>My license renewal date is: December 31, 2025</p> <p>Pages or sheets covered by this seal: Attachment A</p>

Digitally signed by Christine L. Collier, P.E.
Date: 2025.03.17 21:22:04 -05'00'



Municipal Solid Waste Sanitary Landfill Financial Assurance Report Form

SECTION 1: FACILITY INFORMATION

(please print or type)

Information Requested

Facility Name: Muscatine County Sanitary Landfill

Permit Number: 70-SDP-02-75P

Permitted Agency/Entity: Muscatine County Solid Waste Management Agency

SECTION 2: CLOSURE/POSTCLOSURE OR CORRECTIVE ACTION COST ESTIMATES

Information Requested	Cost Estimate	Date of Cost Estimate
Updated Closure Cost Estimate	\$ 4,098,641	2/18/2025
Updated Postclosure Cost Estimate	\$ 2,215,354	2/18/2025
Initial or Updated Corrective Action Cost Estimate	\$ 140,589	2/18/2025

*Attach closure/postclosure cost estimate(s) signed and certified by an Iowa-licensed professional engineer. Cost estimates shall include, at a minimum, each of the cost line items defined in 113.14(3)"c" for closure and 113.14(4)"c" for postclosure. Please provide closure and/or postclosure site area acreage information with the estimates.

Provide a cost estimate for corrective action only if corrective action is required and a corrective action plan has been approved by the Department. Attach the corrective action cost estimate signed and certified by an Iowa-licensed professional engineer. The cost estimate shall account for total costs of the activities described in the approved corrective action plan for the corrective action period.

SECTION 3: FACILITY WASTE TONNAGE INFORMATION

Information Requested	Tons
Remaining permitted capacity as of the beginning of permit holder's current fiscal year	515,766*
Amount of waste disposed of at the facility during the prior fiscal year	39,453

*Remaining permitted capacity estimated using the airspace survey conducted September 12th, 2024.

SECTION 4: PROOF OF COMPLIANCE

Publicly Owned Municipal Solid Waste Landfills

(ATTACH AUDIT REPORT)

Owner's Most Recent Annual Audit Report

Prepared by: Bohnsack & Frommelt LLP

For fiscal year ending: 6/30/2024

Privately Owned Municipal Solid Waste Landfills

(ATTACH AFFIDAVIT)

Attach owner/operator's affidavit indicating that an annual review has been performed by a certified public accountant to determine whether the privately owned landfill is in compliance with IAC 567 Chapter 113. The affidavit shall state the name of the certified public accountant, the dates and conclusions of the review, and the steps taken to rectify any deficiencies identified by the accountant.

SECTION 5: FINANCIAL ASSURANCE INSTRUMENT

Type and Value of Financial Assurance Instrument(s)

(ATTACH INSTRUMENT(S))

Assurance Instrument	Establishment Date	Mechanism Covers	Instrument Value*
Trust Fund 567 IAC 113.14(6)"a"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Surety Bond 567 IAC 113.14(6)"b"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Letter of Credit 567 IAC 113.14(6)"c"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Insurance 567 IAC 113.14(6)"d"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Corporate Financial Test 567 IAC 113.14(6)"e"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Local Gov't. Financial Test 567 IAC 113.14(6)"f"		Closure <input checked="" type="checkbox"/> Postclosure <input checked="" type="checkbox"/> Corrective Action <input checked="" type="checkbox"/>	\$ 3,202,267, includes \$140,589 for CA
Corporate Guarantee 567 IAC 113.14(6)"g"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Local Gov't Guarantee 567 IAC 113.14(6)"h"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Local Gov't. Dedicated Fund 567 IAC 113.14(6)"i"		Closure <input checked="" type="checkbox"/> Postclosure <input checked="" type="checkbox"/> Corrective Action <input type="checkbox"/>	\$ 3,252,317

*Pursuant to IAC 567 113.14(9), if account(s) are restricted/reserved to pay for closure, postclosure or corrective action costs, then the amount of the financial assurance instrument may be reduced by the sum of the cash balance of the account(s) established to comply with subrule 113.14(8).

SECTION 6: INITIAL PROOF OF ESTABLISHMENT OF ACCOUNTS

Check Which Applies:

New Mechanism

Previously Submitted

Pursuant to IAC 567 Chapter 113.14(8)"f", documentation of the establishment of accounts is to be submitted to the department by April 1, 2003 for currently permitted MSWLFs. Permit holders for MSWLFs permitted after April 1, 2003, shall submit documentation of the establishment of accounts prior to the MSWLF's initial receipt of waste.

Please attach documentation indicating accounts/fund have been established for closure and postclosure care and if the account(s) are restricted/reserved for closure or postclosure care. Examples of documentation include bank statements for closure/postclosure accounts, letter signed by the chief financial officer, letter from certified public accountant, etc.

Accounts established pursuant to paragraph 113.14(6)“a” for trust funds or paragraph 113.14(6)“i” for local government dedicated funds also satisfies the requirements of this subrule, and the permit holder shall not be required to establish additional closure and postclosure accounts.

SECTION 7: CLOSURE AND POSTCLOSURE ACCOUNTS

Completion of the following closure and postclosure account information complies with the annual financial statement requirements of IAC 567 113.14(3)“a” and 113.14(4)“a” by indicating the current balance(s) of the closure/postclosure account(s) or dedicated/trust fund and the projected amount(s) to be deposited in the account(s).

Under “Beginning Balance”, please state the account/fund balance 30 days after the start of the previous fiscal year, for “Ending Balance”, indicate the account balance 30 days after the close of the previous fiscal year, and for “Projected Deposit”, indicate the amount to be deposited within 30 days of the close of the permit holder’s fiscal year.

Information Requested	Beginning Balance	Ending Balance	Projected Deposit
Closure Account Balance <i>(see formula below)</i>	\$ 1,793,792	\$ 1,954,354	\$ 164,025
Postclosure Account Balance <i>(see formula below)</i>	\$ 1,230,118	\$ 1,297,963	\$ 70,175
Or			
Dedicated Fund Balance <i>(see formula below)</i>	\$	\$	\$
Trust Fund Balance <i>(see formula below)</i>	\$	\$	\$

Formula for Projected Deposits

Closure or Postclosure Account

$$\frac{CE - CB}{RPC} \times TR$$

Where “CE” is the closure or postclosure cost estimate, “CB” is the balance 30 days after close of the previous fiscal year, “RPC” is the remaining permitted capacity in tons, of the landfill from the beginning of the current fiscal year, and “TR” is the total number of tons of solid waste disposed in the prior year.

Dedicated/Trust Fund

$$\frac{CE - CB}{Y}$$

Where “CE” is the closure or postclosure cost estimate, “CB” is the balance 30 days after close of the previous fiscal year, and “Y” is number of years remaining in the pay-in period.

If needed, the space below can be used to show calculations for projected deposits

Closure	Postclosure
$\frac{\$4,098,641 (CE) - \$1,954,354 (CB)}{515,766 (RPC)} \times 39,453 (TR) = \$164,025$	$\frac{\$2,215,354 (CE) - \$1,297,963 (CB)}{515,766 (RPC)} \times 39,453 (TR) = \$70,175$

SECTION 8: PERMIT HOLDER ENDORSEMENT

Submittal of this completed and endorsed form along with all required documentation establishes Notification and Proof of Permit Holder Compliance with IAC 567 Chapter 113.

Name of Official: Nancy Lueck Title: Finance Director

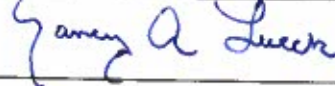
Agency/Entity: City of Muscatine

Address: 215 Sycamore Street

City: Muscatine State: IA Zip: 52761

Telephone: 563-264-1550 Fax: 563-264-0750

Email Address: nlueck@muscatineiowa.org

Signature of Official:  Date: 3-19-25

Questions? Contact Chad Stobbe at (515) 201-8272 or Chad.Stobbe@dnr.iowa.gov

Attachment A

Closure, Post-Closure, and Corrective Action Cost Estimates

2025 Closure Cost Estimate - Muscatine County Sanitary Landfill

Task	Units	Cost per Unit		Cost Year	Inflation or Update	Unit Cost 2025	Cost of Task
1. Closure and Postclosure Plan Document Revisions	1.0	\$ 7,500	lump sum	2024	INFLATION	\$ 7,680	\$ 7,680
2. Site Preparation, Earthwork, and Final Grading	1.0	\$ 559,870	lump sum	2024	INFLATION	\$ 573,307	\$ 573,307
3. Drainage Control Culverts, Piping, and Structures	0.0	\$ -	lump sum	2024	INFLATION	\$ -	\$ -
4. Erosion Control Structures, Sediment Ponds, and Terraces	1.0	\$ 91,316	lump sum	2024	INFLATION	\$ 93,508	\$ 93,508
5. Final Cap Construction	1.0	\$ 1,863,860	lump sum	2024	INFLATION	\$ 1,908,593	\$ 1,908,593
6. Cap Vegetation Soil Placement	1.0	\$ 218,148	lump sum	2024	INFLATION	\$ 223,383	\$ 223,383
7. Cap Seeding, Mulching, and Fertilizing	1.0	\$ 74,597	lump sum	2024	INFLATION	\$ 76,388	\$ 76,388
8. Monitoring Well, Piezometer, and Gas Control Modifications	1.0	\$ 854,188	lump sum	2024	INFLATION	\$ 874,688	\$ 874,688
9. Leachate System Cleanout and Extraction Well Modifications	1.0	\$ 4,600	lump sum	2024	INFLATION	\$ 4,710	\$ 4,710
10. Monitoring Well Installation and Abandonments	0.0	\$ -	lump sum	2024	INFLATION	\$ -	\$ -
11. Facility Modifications to Effect Closed Status	1.0	\$ 1,500	lump sum	2024	INFLATION	\$ 1,536	\$ 1,536
12. Engineering and Technical Services	1.0	\$ 257,000	lump sum	2024	INFLATION	\$ 263,168	\$ 263,168
13. Legal, Financial, and Administrative Services	1.0	\$ 55,000	lump sum	2024	INFLATION	\$ 56,320	\$ 56,320
14. Closure Compliance Certifications and Documentation	1.0	\$ 15,000	lump sum	2024	INFLATION	\$ 15,360	\$ 15,360
2025 Total Cost of Closure							\$ 4,098,641

Notes:

¹ Task items based on the list from 567 IAC 113.14(3)*c*(6). Calculations for each task are contained on the following pages.

² Previously Closed Areas

56.03 acres

³ Phase 1, 2, 3, 4, and 5 (landfill cap = Standard Composite)

18.62 acres

⁴ Approximate borrow area

10.50 acres

⁵ Tasks 5, 6, and 7 above include 0.06 acres for the previously closed area beneath the rock stockpile area (See Doc DNA No. 83590).

2025 Post-Closure Cost Estimate - Muscatine County Sanitary Landfill

Task	Units	Cost per Unit	Cost Year	Inflation or Update	Unit Cost 2025	30 Year Cost
1. General Site Facilities, Access Roads, and Fencing Maintenance	30	\$ 1,129 / year	2024	INFLATION	\$ 1,156	\$ 34,690
2. Cap and Vegetative Cover Maintenance	30	\$ 4,896 / year	2024	INFLATION	\$ 5,013	\$ 150,400
3. Drainage and Erosion Control Systems Maintenance	30	\$ 967 / year	2024	INFLATION	\$ 990	\$ 29,694
4. Groundwater to Waste Separation Systems Maintenance	30	\$ 110 / year	2024	INFLATION	\$ 113	\$ 3,379
5. Gas Control Systems Maintenance	30	\$ 618 / year	2024	INFLATION	\$ 633	\$ 18,984
6. Gas Control Systems Monitoring and Reporting	30	\$ 6,430 / year	2024	INFLATION	\$ 6,584	\$ 197,530
7. Groundwater and Surface Water Monitoring Systems Maintenance	30	\$ 358 / year	2024	INFLATION	\$ 365	\$ 10,939
8. Groundwater and Surface Water Quality Monitoring and Reporting	30	\$ 33,071 / year	2024	INFLATION	\$ 33,865	\$ 1,015,937
9. Groundwater Monitoring Systems Performance Evaluations and Reports	30	\$ - / year	2024	INFLATION	\$ -	\$ -
10. Leachate Control Systems Maintenance	30	\$ 10,001 / year	2024	INFLATION	\$ 10,241	\$ 307,238
11. Leachate Management, Transportation, and Disposal	30	\$ 7,619 / year	2024	INFLATION	\$ 7,802	\$ 234,057
12. Leachate Control Systems Performance Evaluations and Reports	30	\$ 1,200 / year	2024	INFLATION	\$ 1,229	\$ 36,864
13. Engineering and Technical Services	30	\$ 2,048 / year	2024	INFLATION	\$ 2,097	\$ 62,899
14. Legal, Financial, and Administrative Services	30	\$ 1,500 / year	2024	INFLATION	\$ 1,536	\$ 46,080
15. Financial Assurance, Accounting, Audits, and Reports	30	\$ 2,170 / year	2024	INFLATION	\$ 2,222	\$ 66,662
2024 Total Cost of Postclosure					\$ 2,222	\$ 66,662
						\$ 2,215,354

Notes:

¹ Task items based on the list from 567 IAC 113.14(4)*c*(6). Calculations for each task are contained on the following pages.

2025 Corrective Action Cost Estimate - Muscatine County Sanitary Landfill

Task	Units	Cost per Unit	Cost Year	Inflation or Update	Unit Cost 2025	Cost of Task
1. Corrective Action Groundwater Quality Sampling/Monitoring/Reporting:	30	\$ 4,230 / year	2024	INFLATION	\$ 4,331	\$ 129,939
2. Remedy Completion Certification and Documentation:	1	\$ 3,000 lump sum	2024	INFLATION	\$ 3,072	\$ 3,072
3. Remedy Decommissioning:	1	\$ 7,400 lump sum	2024	INFLATION	\$ 7,578	\$ 7,578
2025 Total Cost of Corrective Action						\$ 140,589

Notes:

Selected remedy is source control via surface water drainage improvements, leachate management systems, and passive landfill gas vents with monitored natural attenuation. This calculation is based on a 30 year remedy completion date. The remedy completion date will be evaluated annually and adjusted if necessary. Estimated remedy completion date: 2055