



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

FINANCE & RECORDS

March 24, 2022

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

Dear Mr. Blum:

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 Evora Consulting
4. The Annual Comprehensive Financial Report for the City of Muscatine for the year ended June 30, 2021, can be found at:

<https://www.muscatineiowa.gov/DocumentCenter/View/23029/Annual-Comprehensive-Financial-Report-for-Fiscal-Year-ending-June-30-2021-PDF>

See the Muscatine County Solid Waste Agency column on the Statement of Net Position on page 36 and Note 6 on page 70 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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Muscatine, IA 52761-3899
(563) 264-1550
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FINANCE & RECORDS

March 24, 2022

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: \$2,191,205

Post-closure cost to be assured: \$ 770,159

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

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, 2021. MD&A on page 24 of Audit & Solid Waste Agency

Alternative I

1. Sum of the current closure and postclosure cost estimates being assured by the financial test.	\$2,961,364	\$2,842,130
	From most recent annual auditor's report	From 2nd most recent annual auditor's report
2. Total Revenues for past two years	\$57,227,564	\$50,706,553
3. Total Expenditures for past two years	\$49,425,393	\$47,587,401
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, 2021

	Primary Government			Component Units	
	Governmental Activities	Business-type Activities	Total	Muscatine County Solid Waste Agency	Muscatine Power & Water
ASSETS					
Cash and pooled investments	\$ 16,355,728	\$ 12,346,464	\$ 28,702,192	\$ 1,710,962	\$ 31,035,241
Investments	2,768,929	704,631	3,473,560	-	36,719,087
Receivables (net of allowance for uncollectibles):					
Interest	6,482	496	6,978	253	23,697
Taxes	17,421,429	-	17,421,429	-	-
Accounts	532,521	1,925,626	2,458,147	-	9,530,599
Intergovernmental	4,292,105	1,076,842	5,368,947	-	-
Internal balances	(641,487)	641,487	-	-	-
Inventories	127,203	43,137	170,340	-	23,620,437
Prepays	-	10,616	10,616	-	803,304
Restricted assets:					
Temporarily restricted:					
Cash and pooled investments	-	162,512	162,512	2,594,476	947,250
Assets held for resale	-	172,517	172,517	-	-
Unamortized debt issuance costs	-	-	-	-	45,181
Capital assets:					
Land, art work and construction in progress, not being depreciated	26,455,435	5,272,796	31,728,231	1,080,608	16,105,952
Other capital assets net of accumulated depreciation	62,076,685	85,669,619	147,746,304	775,792	-
Utility plant in service	-	-	-	-	107,958,340
Joint venture rights	-	-	-	-	117,118
Total assets	129,395,030	108,026,743	237,421,773	6,162,091	226,906,206
DEFERRED OUTFLOWS OF RESOURCES					
Pension related deferred outflows	5,338,745	756,685	6,095,430	-	5,750,383
OPEB related deferred outflows	230,807	67,018	297,825	-	122,406
Total deferred outflows of resources	5,569,552	823,703	6,393,255	-	5,872,789
LIABILITIES					
Accounts payable and accruals	2,603,795	1,834,851	4,438,646	77,049	10,656,256
Retainages payable	209,107	161,328	370,435	-	-
Deposits	-	48,617	48,617	-	1,220,731
Accrued interest payable	26,649	18,059	44,708	-	-
Escrow liability	41,381	2,192	43,573	-	-
Unearned revenue	79,043	43,180	122,223	-	323,238
Unearned revenue - O&M account	-	-	-	-	28,032,866
Liabilities payable from restricted assets:					
Current installment of long-term debt	-	-	-	-	2,953,729
Accrued interest payable	-	-	-	-	45,604
Noncurrent liabilities:					
Due within one year	3,347,419	1,060,568	4,407,987	1,926	-
Due in more than one year	30,285,823	13,152,501	43,438,324	1,665	30,645,153
Closure/post-closure obligation	-	33,825	33,825	4,092,274	1,024,122
Total liabilities	36,593,217	16,355,121	52,948,338	4,172,914	74,901,699
DEFERRED INFLOWS OF RESOURCES					
Pension related deferred inflows	744,454	191,715	936,169	-	6,633,059
OPEB related deferred inflows	23,618	6,858	30,476	-	113,257
Deferred inflow - property taxes	17,274,177	-	17,274,177	-	-
Total deferred inflows of resources	18,042,249	198,573	18,240,822	-	6,746,316
NET POSITION					
Net investment in capital assets	77,447,711	80,664,102	158,111,813	1,856,400	104,267,844
Restricted for:					
Debt service	104,143	128,687	232,830	-	901,646
Public works	2,763,455	-	2,763,455	-	-
Community and economic development	243,542	-	243,542	-	-
Public safety	10,935	-	10,935	-	-
Employee benefits	213,065	-	213,065	-	-
Tax increment financing projects	1,034,367	-	1,034,367	-	-
Capital projects	57,995	-	57,995	-	-
Perpetual care, nonexpendable	903,684	-	903,684	-	-
Endowments:					
Nonexpendable	132,000	-	132,000	-	-
Expendable	458,872	-	458,872	-	-
Unrestricted	(3,040,653)	11,503,963	8,463,310	132,777	45,961,490
Total net position	\$ 80,329,116	\$ 92,296,752	\$ 172,625,868	\$ 1,989,177	\$ 151,130,980

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

* NOTE 6. 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 \$4,092,274 reported as landfill closure and post closure care liability at June 30, 2021, represents the cumulative amount reported to date based on the use of 78.0% of the estimated capacity of the current landfill property. The Agency will recognize the remaining estimated cost of closure and post closure care of \$1,156,512 as the remaining estimated capacity is filled over the 13 remaining years.

These amounts are based on what it would cost to perform all closure and post closure care in 2021. The Agency expects the currently-permitted landfill property to reach its capacity in 2034. 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 7. 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.

MOODY'S

INVESTORS SERVICE



Rating Action: Moody's assigns Aa2 to Muscatine, IA's GOULT bonds

24 Mar 2020

New York, March 24, 2020 – Moody's Investors Service has assigned a Aa2 to the City of Muscatine, IA's \$6.3 million General Obligation Corporate Purpose Bonds, Series 2020. Moody's maintains a Aa2 rating on the city's previously issued general obligation unlimited tax (GOULT) debt. Following the sale, the city will have \$18 million of GOULT debt outstanding.

RATINGS RATIONALE

The Aa2 rating reflects the city's sound financial operations. Operating fund balance and liquidity are healthy. The city is located in eastern Iowa (Aaa stable) and has comparatively low resident incomes and some economic concentration in manufacturing. The tax base is growing, however. Debt burden is moderate while pension burden is slightly elevated given the city's participation in two state-managed pension plans.

We regard the coronavirus outbreak as a social risk under our ESG framework, given the substantial implications for public health and safety. Muscatine is not susceptible to immediate material credit risks related to coronavirus. The longer term impact will depend on both the severity and duration of the crisis. The situation surrounding coronavirus is rapidly evolving. If our view of the credit quality of Muscatine changes, we will update the rating and/or outlook at that time.

RATING OUTLOOK

Moody's does not typically assign outlooks to local governments with this amount of debt.

FACTORS THAT COULD LEAD TO AN UPGRADE

- Significant economic activity that drives both expansion and diversification of the city's tax base and improvement in resident incomes

- Reduction in pension burden

FACTORS THAT COULD LEAD TO A DOWNGRADE

- Weakening of the local economy evidenced by declining of property values, increased unemployment, or a decline in the city's socioeconomic profile

- Narrowing of operating reserves or liquidity

- Growth in debt or pension burdens

LEGAL SECURITY

The city's GOULT debt, including the Series 2020 bonds, is supported by its pledge to levy unlimited ad valorem property taxes.

USE OF PROCEEDS

The proceeds of the Series 2020 bonds will finance various capital improvements within the city's five year capital plan.

PROFILE

The City of Muscatine is located along the Mississippi River, approximately 30 miles southwest of the Quad cities metropolitan area. The city serves a resident population of nearly 24,000 and is the county seat of Muscatine County, IA (Aa2).. The city provides public safety (police and fire), public works, cultural and recreation, and other governmental services. The city's major business-type activities include sewer (collection and treatment), sanitation and an airport. Muscatine Power and Water, a component unit of the city, provides residents with electric, water (treatment and distribution) and communication services.



March 23, 2022

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

**RE: 2022 Financial Assurance
Muscatine County Sanitary Landfill
Permit No. 70-SDP-02-75P
Project No. MCSWA 22001**

Dear Ms. Lueck:

Evora Consulting (Evora) is providing the enclosed documentation to be included in the 2022 Financial Assurance submittal to the Iowa Department of Natural Resources (DNR) for the above referenced facility. Attached is the completed DNR Municipal Solid Waste Sanitary Landfill Financial Assurance Report Form for the year 2022. Attachment A contains the 2022 third-party revised closure/post closure cost estimates as required by the Iowa Administrative Code and the above-referenced facility's operating permit.

If you have any questions or comments regarding this letter, please contact our office at (515) 256-8814.

Sincerely,

Evora Consulting

Matthew D. Corry, P.E.
Project Engineer

Timothy C. Buelow, P.E.
Principal Engineer



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

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EVORA
CONSULTING

Certification

	<p>I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.</p> <p> _____ Date: <u>3/23/22</u></p> <p>Matthew D. Corry, P.E. License No. P25067 My license renewal date is December 31, 2023</p> <p>Pages or sheets covered by this seal: <u>Attachment A</u></p>
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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
Permitted Agency/Entity	Muscatine County Solid Waste Management Agency
Permit Number	70-SDP-02-75P

Section 2: CLOSURE/POSTCLOSURE OR CORRECTIVE ACTION COST ESTIMATES

Information Requested	Cost Estimate	Date of Cost Estimate
Updated Closure Cost Estimate	\$ 3,669,247	February 23, 2022
Updated Post Closure Cost Estimate	\$ 1,886,593	February 23, 2022
Initial or Updated Corrective Action Cost Estimate		

*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	560,767*
Amount of waste disposed of at the facility during the prior year	39,029

*Remaining permitted capacity obtained from subtracting amount of waste disposed of at the facility during the prior year (39,029 tons) from the previous year's remaining permitted capacity (599,796 tons).

Section 4: PROOF OF COMPLIANCE

Publicly Owned Municipal Solid Waste Landfills	<i>(ATTACH AUDIT REPORT)</i>
Owner's Most Recent Annual Audit Report	
Prepared by: <u>Bohnsack & Frommelt LLP, Certified Public Accountants</u>	
For fiscal year ending: <u>June 30, 2021</u>	
Privately Owned Municipal Solid Waste Landfills	<i>(ATTACH AFFIDAVIT)</i>
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"	April 17, 2003	Closure <input checked="" type="checkbox"/> Postclosure <input checked="" type="checkbox"/> Corrective Action <input type="checkbox"/>	\$2,961,364
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 56+7 IAC 113.14(6)"i"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	

*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: <input type="checkbox"/> New Mechanism <input checked="" type="checkbox"/> Previously Submitted
<p>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.</p> <p>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.</p> <p>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.</p>

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).

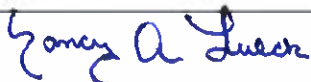
Under “Beginning Balance”, please state the account/fund balance 30 days after the start of the previous fiscal year, for “Ending Balance”, indicate the account balance 30 days after the close of the previous fiscal year, and for “Projected Deposit”, indicate the amount to be deposited within 30 days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

Information Requested	Beginning Balance	Ending Balance	Projected Deposit
Closure Account Balance (see formula below)	\$1,337,341	\$1,478,042	\$152,506
Postclosure Account Balance (see formula below)	\$1,069,315	\$1,116,434	\$53,603
Or			
Dedicated Fund Balance (see formula below)			
Trust Fund Balance (see formula below)			
Formula for Projected Deposits			
<p style="text-align: center;">Closure or Postclosure Account</p> $\frac{CE - CB}{RPC} \times TR$ <p>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.</p>	<p style="text-align: center;">Dedicated/Trust Fund</p> $\frac{CE - CB}{Y}$ <p>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.</p>		
If needed, the space below can be used to show calculations for projected deposits			
<p style="text-align: center;">Closure</p> $\frac{\$3,669,247 - \$1,478,042}{560,767} \times 39,029 = \$152,506$	<p style="text-align: center;">Postclosure</p> $\frac{\$1,886,593 - \$1,116,434}{560,767} \times 39,029 = \$53,603$		

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.

Nancy Lueck	Finance Director	
Name of Official	Title	
City of Muscatine		
Agency/Entity		
215 Sycamore Street		
Address		
Muscatine	Iowa	52761
City	State	Zip
563-264-1550	563-264-0750	
Telephone	Fax	
nlueck@muscatineiowa.gov		
Email Address		

	Finance Director	3-24-22
Signature of Official	Title	Date

Questions? Contact Mr. Bill Blum at (515) 725-8376 or bill.blum@dnr.iowa.gov

Attachment A

2022 Closure Cost Estimate - Muscatine County Sanitary Landfill

Task	Units	Cost per Unit	Cost Year	Total Cost
1. Closure and Postclosure Plan Document Revisions	1.0	\$ 7,500 lump sum	2021	\$ 7,500
2. Site Preparation, Earthwork, and Final Grading	1.0	\$ 445,117 lump sum	2021	\$ 445,117
3. Drainage Control Culverts, Piping, and Structures	0.0	\$ - lump sum	2021	\$ -
4. Erosion Control Structures, Sediment Ponds, and Terraces	1.0	\$ 61,378 lump sum	2021	\$ 61,378
5. Final Cap Construction	1.0	\$ 1,742,902 lump sum	2021	\$ 1,742,902
6. Cap Vegetation Soil Placement	1.0	\$ 192,315 lump sum	2021	\$ 192,315
7. Cap Seeding, Mulching, and Fertilizing	1.0	\$ 65,882 per acre	2021	\$ 65,882
8. Monitoring Well, Piezometer, and Gas Control Modifications	1.0	\$ 703,115 lump sum	2021	\$ 703,115
9. Leachate System Cleanout and Extraction Well Modifications	1.0	\$ 4,000 lump sum	2021	\$ 4,000
10. Monitoring Well Installation and Abandonments	0.0	\$ - lump sum	2021	\$ -
11. Facility Modifications to Effect Closed Status	1.0	\$ 750 lump sum	2021	\$ 750
12. Engineering and Technical Services	1.0	\$ 196,000 lump sum	2021	\$ 196,000
13. Legal, Financial, and Administrative Services	1.0	\$ 40,000 lump sum	2021	\$ 40,000
14. Closure Compliance Certifications and Documentation	1.0	\$ 7,500 lump sum	2021	\$ 7,500
2021 Total Cost of Closure				\$ 3,466,459
2021 over 2020 Inflation Factor:		1.0585		\$ 202,788
2022 Total Cost of Closure				\$ 3,669,247

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 6.50 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).

2022 Closure Cost Estimate - Muscatine County Sanitary Landfill

1. Closure and Postclosure Plan Document Revisions

Cost basis year: 2021

1a. Closure and Postclosure Plan Document Revisions	\$	7,500	lump sum
Total Cost of Item 1	\$	7,500	lump sum

Assume:

- Based on current costs on similar contracts.

2. Site Preparation, Earthwork, and Final Grading

Cost basis year: 2021

2a. Mobilization/Demobilization	\$	50,000	lump sum
2b. Site Preparation	\$	32,486	lump sum
2c. Waste Relocation and Grading Layer Placement	\$	362,631	lump sum
Total Cost of Item 2	\$	445,117	lump sum

Assume:

- Items 2a, 2b, and 2c based on costs from similar projects.
- Item 2b includes site preparation including stripping and disking of soils.

Unit cost per CY: \$ 2.53 per cubic yard
 Volume per acre (6-inch depth): 807 CY
 Area requiring stripping: 15.94 Acres

- Item 2c

Unit cost per CY to relocate waste: \$ 5.00 per CY
 Volume of waste to be relocated: 59,555 CY
 Unit cost per CY: \$ 15.00 per CY
 Volume per acre (12-inch depth): 1613 CY
 Area requiring stripping: 2.68 acres

3. Drainage Control Culverts, Piping, and Structures

Cost basis year: 2021

3a. Drainage Control Culverts, Piping, and Structures	\$	-	lump sum
Total Cost of Item 3	\$	-	lump sum

Assume:

- No new drainage structures needed at the time of closure.

4. Erosion Control Structures

Cost basis year: 2021

4a. Soil Terrace and Diversion Berms	\$	36,001	lump sum
4b. TRM Letdowns	\$	9,074	lump sum
4c. Silt Fences	\$	16,303	lump sum
Total Cost of Item 4	\$	61,378	lump sum

Assume:

- Items 4a - 4c based on bid prices from similar projects.

- Item 4a

Volume per LF of terrace (includes 20% shrink): 3.1 CY
 Approximate terrace length, upper and lower: 3,500 LF
 Approximate earthwork quantity for terraces: 10,920 CY
 Unit cost based on actual costs of similar projects: \$ 3.30 per CY

- Item 4b

Unit cost based on actual costs of similar projects: \$1.61 per SF
 Square feet of TRM per LF: 15 SF per LF Letdown
 Linear feet of letdown at the time of closure: 376 LF

- Item 4c

Unit cost based on actual costs of similar projects: \$ 2.33 per LF
 Approximate length of silt fence: 7,000 LF

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5. Final Cap Construction

Cost basis year: 2021

5a. Phase 1, 2, 3, 4, and 5 Composite Cap	\$ 1,735,922	lump sum
5b. Previously Closed Area Beneath the Rock/Soil Stockpile Area (24" infiltration layer / non-composite)	\$ 6,980	lump sum
Total Cost of Item 5	\$ 1,742,902	lump sum

Assume:

- Items 5a and 5b based on bid prices from similar projects.
- Item 5b. Phases 1, 2, 3, 4, and 5.

Unit cost per CY (18' compacted soil):	\$ 3.06	per CY
Volume per acre (includes 20% shrink):	2,904	CY per acre
Unit cost per SF (geomembrane liner):	\$ 0.71	per sq. ft
Area per acre (geomembrane liner):	43,560	SF per acre
Unit cost per SF (geocomposite):	\$ 0.80	per sq. ft
Area per acre (geocomposite):	43,560	feet per acre
Phases 1, 2, 3, 4, and 5:	18.62	acres
Subsurface drainage system:	7,960	LF
Unit cost per LF (trenches, aggregate, and pipe):	\$ 22.78	per LF
Geomembrane and geocomposite anchor trench length*:	4,544	LF
Unit cost per LF (geomembrane and geocomposite anchor trench)*:	\$ 35.44	per LF
*includes sideslope termination trench		

- Item 5c. Previously Closed Area Beneath the Rock Stockpile Area (See Doc DNA No. 83590)

Unit cost per CY (infiltration layer):	\$ 2.78	per CY
Volume per acre (includes 20% shrink):	3,872	CY per acre
Previously Closed Area Beneath the Rock Stockpile Area:	0.65	acres

6. Cap Vegetative Soil Placement

Cost basis year: 2021

6a. Phase 1, 2, 3, 4, and 5 (24" erosion layer (composite):	\$ 185,853	lump sum
6b. Previously Closed Area Beneath the Rock/Soil Stockpile Area (24" erosion layer)	\$ 6,462	lump sum
Total Cost of Item 6	\$ 192,315	lump sum

Assume:

- Item 6a based on bid prices from similar projects.
- Item 6a. Phase 1 and Phase 1 Abutment.

Unit cost per CY (erosion layer):	\$ 2.58	per CY
Volume per acre (includes 20% shrink):	3,872	CY per acre
Areas A and B:	18.62	acres

- Item 6b. Previously Closed Area Beneath the Rock Stockpile Area (See Doc DNA No. 83590).

Unit cost per CY (erosion layer):	\$ 2.58	per CY
Volume per acre (includes 20% shrink):	3,872	CY per acre
Previously Closed Area Beneath the Rock Stockpile Area:	0.65	acres

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7. Cap Seeding, Mulching, and Fertilizing

Cost basis year: 2021

7a. Seeding, Mulching, & Fertilizing	\$	65,882	lump sum
Total Cost of Item 7	\$	65,882	lump sum

Assume:

- Item 7a based on bid prices from similar projects.

- Item 7a.

Unit cost per acre: \$ 2,557 per acre

Total area*: 25.77 acres

*Includes previously closed area beneath the rock stockpile area (See Doc DNA No. 83590).

8. Monitoring Well, Piezometer, and Gas Control Installation

Cost basis year: 2021

8a. Monitoring Well Modifications	\$	-	lump sum
8b. Piezometer Modifications	\$	-	lump sum
8c. Gas Control Modifications - Gas Collection Layer (geocomposite)	\$	609,485	lump sum
8d. Gas Control Modifications - Gas Collection Piping	\$	84,630	lump sum
8e. Gas Control Modifications - Vents	\$	9,000	lump sum
Total Cost of Item 8	\$	703,115	lump sum

Assume:

- Items 8c through 8e are applicable to Phases 1, 2, 3, 4, and 5 only.

- Items 8a and 8b.

No monitoring wells or piezometers needing modification at the time of closure.

- Item 8c.

Unit cost per sq. ft: \$ 0.75 per sq. ft.

Area per acre: 43,560 sq. ft.

Area of landfill requiring gas control: 18.62 acres

- Item 8d based on bid costs from similar contracts.

Unit cost per LF: \$ 33.76 per LF

Approximate length of Gas Collection Piping: 2,507 LF

- Item 8e based on bid costs from similar contracts.

Unit cost per vent: \$ 1,500 per vent

Approximate quantity of vents: 6 ea

9. Leachate System Cleanout and Extraction Well Modifications

Cost basis year: 2021

9a. Leachate Piezometer/Cleanout Extension	\$	1,000	lump sum
9b. Leachate Manhole Extension	\$	3,000	lump sum
Total Cost of Item 9	\$	4,000	lump sum

Assume:

- Item 9a based on bid prices from similar projects.

Approximate number of leachate piezometers/cleanouts to raise: 2

Cost per extension: \$ 500 ea.

- Item 9a based on bid prices from similar projects.

Approximate number of leachate manholes to raise: 1

Cost per extension: \$ 3,000 ea.

2022 Closure Cost Estimate - Muscatine County Sanitary Landfill

10. Monitoring Well Installation and Abandonments

Cost basis year: 2021

10a. Monitoring Well Installation and Abandonments	\$	-	lump sum
Total Cost of Item 10	\$	-	lump sum

Assume:

- No monitoring well installation and abandonment needed at the time of closure.

11. Facility Modifications to Effect Closed Status

Cost basis year: 2021

11a. Signs Modification/Removal	\$	750	lump sum
Total Cost of Item 11	\$	750	lump sum

Assume:

- Item 11a.

Estimate cost of primary signs at:

\$ 750 per sign
1 sign

Approximate number of signs:

12. Engineering and Technical Services

Cost basis year: 2021

12a. Bid Documents and Letting	\$	20,000	lump sum
12b. Testing	\$	10,000	lump sum
12c. Construction Observation	\$	156,000	lump sum
12d. Construction Staking	\$	10,000	lump sum
Total Cost of Item 12	\$	196,000	lump sum

Assume:

- Cost for Items 12a - 12d based on similar contracts.
- Item 12c.

Construction Observation Cost:

\$ 1,200 per day
130 days

Approximate Construction Observation Days:

13. Legal, Financial, and Administrative Services

Cost basis year: 2021

13a. Legal, Financial, and Administrative Services	\$	30,000	lump sum
13b. Waste Boundary and Property Survey	\$	10,000	lump sum
Total Cost of Item 13	\$	40,000	lump sum

Assume:

- Items 13a and 13b based on current costs from similar contracts.

14. Closure Compliance Certifications and Documentation

Cost basis year: 2021

14a. Closure Certification Document	\$	7,500	lump sum
Total Cost of Item 14	\$	7,500	lump sum

Assume:

- Item 14a based on current costs from similar contracts.

2022 Postclosure Cost Estimate - Muscatine County Sanitary Landfill

Task	Units	Cost per Unit	Cost Year	30 Year Cost
1. General Site Facilities, Access Roads, and Fencing Maintenance	30	\$ 769 / year	2021	\$ 23,077
2. Cap and Vegetative Cover Maintenance	30	\$ 4,366 / year	2021	\$ 130,966
3. Drainage and Erosion Control Systems Maintenance	30	\$ 1,526 / year	2021	\$ 45,781
4. Groundwater to Waste Separation Systems Maintenance	30	\$ 110 / year	2021	\$ 3,300
5. Gas Control Systems Maintenance	30	\$ 846 / year	2021	\$ 25,389
6. Gas Control Systems Monitoring and Reporting	30	\$ 2,400 / year	2021	\$ 72,000
7. Groundwater and Surface Water Monitoring Systems Maintenance	30	\$ 361 / year	2021	\$ 10,842
8. Groundwater and Surface Water Quality Monitoring and Reporting	30	\$ 28,326 / year	2021	\$ 849,779
9. Groundwater Monitoring Systems Performance Evaluations and Reports	30	\$ - / year	2021	\$ -
10. Leachate Control Systems Maintenance	30	\$ 8,801 / year	2021	\$ 264,030
11. Leachate Management, Transportation, and Disposal	30	\$ 6,655 / year	2021	\$ 199,663
12. Leachate Control Systems Performance Evaluations and Reports	30	\$ 1,000 / year	2021	\$ 30,000
13. Engineering and Technical Services	30	\$ 1,500 / year	2021	\$ 45,000
14. Legal, Financial, and Administrative Services	30	\$ 1,500 / year	2021	\$ 45,000
15. Financial Assurance, Accounting, Audits, and Reports	30	\$ 1,250 / year	2021	\$ 37,500
2021 Total Cost of Postclosure		\$ 59,411		\$ 1,782,327
2021 over 2020 Inflation Factor:		1.0585		\$ 104,266
2022 Total Cost of Postclosure				\$ 1,886,593

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.

2022 Postclosure Cost Estimate - Muscatine County Sanitary Landfill

1. General Site Facilities, Access Roads, and Fencing Maintenance

Cost basis year: 2021

1a. Sign Replacement	\$	75	per year
1b. Roadway Maintenance	\$	579	per year
1c. Fence Repair and Replacement	\$	115	per year
Total Cost of Item 1	\$	769	per year

Assume:

- Item 1a.			
Estimated cost of sign replacement	\$	750	
Frequency of sign replacement:		1 time within	10 years
- Item 1b.			
Roadway aggregate and structural fill (average width 15 feet):	\$	12.66	per LF
Roadway length:		4,575	LF
Average yearly estimated gravel replenish at:		1.0%	of road length
Average yearly estimated area of gravel replenish:		46	SY
- Item 1c.			
Length of perimeter barbwire fence (existing):		7,581	LF
Yearly estimated fence repair:		0.5%	of the total per year
Barbwire fence repair cost:	\$	3.04	per LF

2. Cap and Vegetative Cover Maintenance

Cost basis year: 2021

2a. Final Cover Repair	\$	1,708	per year
2b. Reseeding	\$	954	per year
2c. Weed and Tree Control	\$	293	per year
2d. Mowing	\$	1,411	per year
Total Cost of Item 2	\$	4,366	per year

Assume:

- Item 2a based on similar projects.			
Unit cost per CY:	\$	2.58	per CY
Estimated area requiring maintenance:		74.7	acres
Estimated repair depths:		1	FT
Yearly estimated final cover repair at:		0.5%	of the total area
Volume per year (includes 10% shrink):		662	CY per year
- Item 2b based on similar projects.			
Unit cost:	\$	2,557	per acre
Current area requiring final cover:		74.7	acres
Yearly estimated final cover repair at:		0.5%	of the total area
Area per year:		0.4	acres
- Item 2c.			
Current final cover area:		74.7	acres
Unit cost based on actual costs of similar projects:	\$	117.68	acre
Frequency of weed and tree control event:		10%	of total area every 3 years
- Item 2d.			
Mobilization	\$	500	per mobilization
Cost per acre	\$	50	per acre
Acres		74.7	acres
		1 time within	3 years

3. Drainage and Erosion Control Systems Maintenance

Cost basis year: 2021

3a. Ditch Cleaning & Sedimentation Pond Cleaning	\$	360	per year
3b. Culvert Cleaning and Repair	\$	50	per year
3c. Terrace Repair	\$	1,116	per year
Total Cost of Item 3	\$	1,526	per year

Assume:

- Item 3a.			
Estimated crew at:	\$	450	per crew hour
Frequency of cleaning ditch:		8 hours every	10 years
- Item 3b.			
Two man jet truck at:	\$	250	per crew hour
No. of hours per event:	\$	2	hours
Frequency of cleaning/repairing culverts:		1 time within	10 years
- Item 3c			
Estimated unit cost:	\$	3.30	per CY
Volume per LF of terrace (includes 20% shrink):		3.1	CY
Approximate terrace length:		10,920	LF
Terrace maintenance:		1%	per year during the postclosure period

2022 Postclosure Cost Estimate - Muscatine County Sanitary Landfill

4. Groundwater to Waste Separation Systems Maintenance

Cost basis year: 2021

4a. Groundwater Control System Line Cleaning	\$ 110 per year
Total Cost of Item 4	\$ 110 per year

Assume:

- Item 4a based on costs from similar projects.

Unit cost per LF:	\$ 1.00 per LF
Groundwater underdrain pipe :	1,100 LF (approximate)
Frequency of groundwater line jet cleaning:	3 times within 30 years

5. Gas Control Systems Maintenance

Cost basis year: 2021

5a. Passive Gas Control Systems Maintenance	\$ 846 per year
Total Cost of Item 4	\$ 846 per year

- Item 5a based on prior similar contracts.

Unit cost per LF:	\$ 33.76 per LF
Approximate length of Gas Collection Piping:	2,507 LF
Gas control systems maintenance:	1% per year during the postclosure period

6. Gas Control Systems Monitoring and Reporting

Cost basis year: 2021

6a. Methane Gas Monitoring	\$ 2,000 per year
6b. Gas Monitoring Report	\$ 400 per year
Total Cost of Item 6	\$ 2,400 per year

Assume:

- Item 6a based on actual costs of similar projects.

Methane gas monitoring:	\$ 500 per event
Monitoring frequency:	4 events every 1 year
- Item 6b.

Estimated yearly costs for gas monitoring report:	\$ 400 per year
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7. Groundwater and Surface Water Monitoring Systems Maintenance

Cost basis year: 2021

7a. Groundwater & Gas Monitoring Well Replacement/Repair	\$ 361 per year
Total Cost of Item 7	\$ 361 per year

Assume:

- Item 7a based on current similar contracts.

No. of groundwater monitoring wells in monitoring network:	19 wells
No. of gas monitoring wells/probes:	9 wells
Total monitoring well depth for abandonment:	645 FT
Abandonment cost:	\$ 35 per FT
<u>Total well abandonment cost:</u>	<u>\$ 22,567</u>
Total well depth for installation:	645 FT
Installation cost:	\$ 55 per FT
<u>Total well installation cost:</u>	<u>\$ 35,462</u>
Well protection removal cost:	\$ 250 per well
<u>Total well protection removal cost:</u>	<u>\$ 4,750</u>
Well protection installation cost:	\$ 500 per well
<u>Total well protection installation cost:</u>	<u>\$ 9,500</u>
Well replacement/repair:	0.5% per year during the postclosure period

2022 Postclosure Cost Estimate - Muscatine County Sanitary Landfill

8. Groundwater and Surface Water Quality Monitoring and Reporting

Cost basis year: 2021

8a. Groundwater Sampling	\$ 7,970	per year
8b. Analysis	\$ 12,631	per year
8c. Water Quality Report	\$ 7,725	per year
Total Cost of Item 8	\$ 28,326	per year

Assume:

- Items 8a - 8c based on current similar contracts.
- Conduct routine semiannual samplings for the wells in detection monitoring per 113.10(5).
 - No. of wells in detection monitoring per 113.10(5): 3
 - No. of underdrain outfalls in detection monitoring per 113.10(5): 0
- Conduct routine semiannual samplings for the wells in assessment monitoring per 113.10(6).
 - No. of wells in assessment monitoring per 113.10(6): 16
 - No. of underdrain outfalls in assessment monitoring per 113.10(6): 0
 - No. of remaining events for 5-year frequency Appendix II sampling: 6 times during the 30 year post-closure period.
- Item 8a.
 - Estimated mobilization and equipment cost per sampling event : \$ 1,450 per sampling event
 - Frequency of mobilization: 2 times within 1 year
 - Total mobilization cost: \$ 2,900 per year
 - Estimated cost per sampling per point (Standard): \$ 125 per sampling point
 - Estimated cost per sampling per point (Ap. 2): \$ 225 per sampling point
 - Frequency of detection and assessment monitoring: 2 times within 1 year
 - Total sampling cost: \$ 5,070 per year
- Item 8b.
 - Frequency of Appendix I sampling: 2 times within 1 year
 - Appendix I analytical cost: \$ 232.95 per sample
 - Rate of duplicate samples and "+" parameters. 15%
 - Total Appendix I analytical cost: \$ 9,323 per year for next 30 years
 - Appendix II analytical cost: \$ 1,033.85 per sample
 - Total Appendix II analytical cost: \$ 3,308 per year for next 30 years
 - Note: Appendix I sampling is not analyzed when Appendix II sampling is required.
- Item 8c.
 - AWQR cost: \$ 5,000 per report
 - Spring Sampling Notification (SSN) cost: \$ 2,500 per report
 - Statistical Software Licensing: \$ 225 per year
 - Frequency of reporting (both AWQR and SSN): 1 time within 1 year

9. Groundwater Monitoring Systems Performance Evaluations and Reports

Cost basis year: 2021

N/A	\$ -	per year
Total Cost of Item 9	\$ -	per year

Assume:

- Included in Item 8.

10. Leachate Control Systems Maintenance

Cost basis year: 2021

10a. Leachate Line Cleaning	\$ 4,801	per year
10b. Leachate Collection System Operation & Maintenance	\$ 4,000	per year
Total Cost of Item 10	\$ 8,801	per year

Assume:

- Item 10a.
 - Unit cost per LF: \$ 1.00 per LF
 - Length of leachate lines: 14,403 LF (approximate)
 - Frequency of leachate line jet cleaning: 1 time within 3 years
- Item 10b based on current similar contracts.
 - Leachate Collection System Operation & Maintenance: \$ 2,000 per event
 - Maintenance frequency: 2 events every 1 years

2022 Postclosure Cost Estimate - Muscatine County Sanitary Landfill

11. Leachate Management, Transportation, and Disposal

Cost basis year: 2021

11a. Leachate Transportation and Disposal	\$ 6,655 per year
Total Cost of Item 11	\$ 6,655 per year

Assume:

- Item 11a.

Historical hauling and disposal cost:	\$ 0.035 per gallon
Estimated generation from the FML-lined Area:	30,324 gallon/acre/year, for first 3 years
Note: Reference: (From similar projects in southeast Iowa.)	
Estimated generation from FML capped cells:	12 gallons per acre per year for remaining 27 years
Note: Leachate generation rate ratio of open and FML capped conditions base on prior similar projects = 0.04%	
Current area requiring FML cap:	18.62 acres
<u>Total cost from composite (FML cap) cells:</u>	<u>\$ 1,983 per year</u>
Estimated generation from unlined area collection lines	2,000 gallon/ac/yr 56.03 acres
<u>Total cost from unlined area toe drains</u>	<u>\$ 3,922 per year</u>
<u>Total estimated electrical and testing costs</u>	<u>\$ 750 per year</u>

12. Leachate Control Systems Performance Evaluations and Reports

Cost basis year: 2021

12a. Leachate Control System Performance Evaluation Report	\$ 1,000 per year
Total Cost of Item 12	\$ 1,000 per year

Assume:

- Item 12a based on current similar contracts.

Estimated yearly cost for LCSPE report:	\$ 1,000 per year
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13. Engineering and Technical Services

Cost basis year: 2021

13a. Engineering and Technical Services	\$ 500 per year
13b. Semi-Annual Inspections	\$ 1,500 per year
Total Cost of Item 13	\$ 2,000 per year

Assume:

- Item 13a.

Estimated cost for engineering and technical services:	\$ 500 per year
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- Item 13b.

Estimated cost for postclosure inspection:	\$ 1,000 per event
Inspection frequency:	12 events per year for year 1
Inspection frequency:	2 events per years for years 2-5
Inspection frequency:	1 event per years for years 6-30

14. Legal, Financial, and Administrative Services

Cost basis year: 2021

14a. Legal, Financial, and Administrative Services	\$ 1,500 per year
Total Cost of Item 14	\$ 1,500 per year

Assume:

- Item 14a.

Estimated yearly costs:	\$ 1,500 per year
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15. Financial Assurance, Accounting, Audits, and Reports

Cost basis year: 2021

15a. Annual financial assurance estimate and report	\$ 1,000 per year
15b. Annual financial assurance audit	\$ 250 per year
Total Cost of Item 15	\$ 1,250 per year

Assume:

- Item 15a.

Estimated yearly costs based on current similar contracts:	\$ 1,000 per year
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- Item 15b.

Financial/administrative cost:	\$ 250 per year
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Note: In accordance with Iowa Code Section 11.6(1), an audit is not required and an auditor's affirmation of funds or a copy of the bank statement where the funds are held would be sufficient.