

West Des Moines, IA

PROJECT: Ottumwa, FY24 Env Comp, IA 27223157.24 DATE: 7/16/2024

SUBJECT: Ottumwa-Wapello County Landfill, Area A MSWLF Unit - 90-SDP-09-93C - 2024 Biennial Inspection Report TRANSMITTAL ID: 00001

PURPOSE: For your approval VIA: Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
Nathan Ohrt West Des Moines, IA	SCS Engineers	NOhrt@scsengineers.com	

TO

NAME	COMPANY	EMAIL	PHONE
Mick Leat United States		mick.lead@dnr.iowa.gov	

REMARKS: Good afternoon Mick-

SCS Engineers, on behalf of the Ottumwa-Wapello County Solid Waste Commission, is submitting the attached 2024 Biennial Inspection Report for the Area A MSWLF unit at the Ottumwa-Wapello County Landfill. If you have any questions or comments regarding this report, please contact me at the number below. Thank you.

Nathan Ohrt
Senior Project Professional
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Transmittal

DATE: 7/16/2024
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DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	7/16/2024	Ottumwa-Wapello County Landfill, Area A MSWLF Unit - 90-SDP-09-93C - 2024 Biennial Inspection Report.pdf	

COPIES:

Zach Simonson	(Ottumwa-Wapello County)
Tim Buelow	(SCS Engineers)
Nathan Ohrt	(SCS Engineers)
Becky Jolly	

July 16, 2024
File No. 27223157.24

Mr. Mick Leat
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue, Suite 200
Des Moines, Iowa 50321

Subject: 2024 Biennial Inspection Report
Ottumwa-Wapello County Landfill
Area A MSWLF Unit (Closed)
Former Permit No. 90-SDP-09-93C (Rescinded)

Dear Mick:

This brief report documents the biennial inspection required in Section 7.I.1 of the Environmental Covenant (EC) filed with the Wapello County Recorder on February 2, 2021, covering the closed Area A municipal solid waste landfill (MSWLF) unit at the Ottumwa-Wapello County Landfill. The inspection was made to verify that compliance with the property activity and use limitations enumerated in the EC had been maintained. A copy of the observation checklist used during the inspection is included in Attachment A.

SUMMARY OF INSPECTION OBSERVATIONS

Visual indications relative to the activity and use limitations were as follows:

- No excavations, including less than 2 feet deep, had occurred on the MSWLF unit final cover.
- No deposited municipal solid waste had been excavated, disrupted, or removed from the MSWLF unit.
- No drinking water wells had been installed within the area subject to the EC.
- No residences had been constructed within the area subject to the EC.
- No placement or construction of enclosed spaces had occurred on the final cover.
- No controlled vegetation burns had occurred within the area subject to the EC.
- No leachate seeps were observed. Previous leachate seeps observed during the 2022 inspection had been repaired by covering with broken pieces of granite countertops (equivalent to covering with erosion stone).
- Site access restrictions were the same as those in place at the time of enactment of the EC.
- The integrity of the final cover had been maintained. The vegetation was well established and had been recently mowed, allowing for a more thorough inspection of the MSWLF unit surface.
- There were no leachate seeps or notable sparse/bare areas of vegetation.
- There was no ponded water on the surface of the MSWLF unit.



RECOMMENDATIONS

The final cover appeared well maintained and in good condition. Recommended activities are to continue regular mowing of the final cover and expansion of the leachate seep rock coverings should leachate seeps be indicated beyond the limits of the current rocked areas.

GENERAL COMMENTS

The observations presented in this report are based on data obtained from the field observations made at the site. This report provides a snapshot in time of the conditions present at the time of the inspection and does not reflect variations in conditions that may occur throughout the year.

SCS Engineers has prepared this report for the exclusive use of our client. This report is meant for the specific application discussed and has been prepared in accordance with generally accepted engineering practices. No warranties, expressly stated or implied, are intended or made.

If you have any questions about this report, please contact Tim Buelow at (515) 681-5455.

Sincerely,



Timothy C. Buelow, P.E.
Senior Project Advisor
SCS Engineers


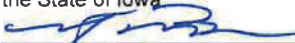


Nathan Ohrt
Senior Project Professional
SCS Engineers

TCB/NPO

Copy: Mr. Zach Simonson, Ottumwa-Wapello County Solid Waste Commission
Ms. Lori Creech
Iowa DNR Field Office #6

Encl. Attachment A – Sanitary Landfill Inspection Checklist

	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
	 Date: <u>7/16/2024</u>
	Timothy C. Buelow, P.E. License No. 14445 My license renewal date is December 31, 2025.
	Pages or sheets covered by this seal: <u>2024 Biennial Landfill Inspection Report</u>

ATTACHMENT A
OBSERVATION CHECKLIST

SCS ENGINEERS
1690 All-State Court, Suite 100, West Des Moines, Iowa 50265
Sanitary Landfill Inspection Checklist

Permit #: 90-SDP-09-93C (Rescinded)

Facility Name: Ottumwa-Wapello County Landfill – Area A (closed) **Responsible Official:** Zach Simonson
County: Wapello **Address:** 105 East 3rd Street, Ottumwa, IA
Facility Operator: Lori Creech **Phone:** (641) 683-0694
Address: 13277 165th Avenue, Ottumwa, IA **Date Last Inspection:** April 7, 2022
Phone: (641) 683-0644 **Date This Inspection:** June 21, 2024

At the Time of this Inspection:

- **Facility personnel present:** Lori Creech
- **Surface conditions:** Dry
- **Wind direction and speed:** SW 10-15 mph
- **Ambient temperature:** 87° F, Partly Cloudy

Yes – compliance was being achieved; **No** – compliance was not being achieved,
N/A – not applicable or not observed; **PND** – previously noted deficiency (PND).



Observations

Yes	No	N/A	PND	Item	Yes	No	N/A	PND	Item
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Fill Cover: final	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. Special Waste Handling
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Control of Face	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. Recycling Activities
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. Compaction	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. Operator Certification
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Cover erosion; Ponding	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. Staffing
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. Drainage into fill	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. Equipment Backup/Maintenance
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. Leachate Mgmt. & Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15. Interior Roads
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. Litter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. Perimeter fence, gate, signs, wells
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. Wet Weather Area	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. Photos taken
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. Construction & Demolition Area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18. Follow-up needed

Comments: The comments below correspond to the numbered observation items listed above.

1. Landfill vegetation was well-established and in good condition. The surface of the landfill had recently been mowed (with the exception of the formerly off-site area in the northeast corner) and was therefore easily observed for concerns. None were noted. Vehicle access of the final cover area has significantly reduced since the rescission of the permit and improvement of the condition of the vegetation along those paths was substantially improved. Stormwater control structures appeared in good condition including the terrace flow intake on the north side of the landfill, the rip-rap letdown on the north side of the northeast area (formerly off-site), and the rip-rapped embankment adjacent to the creek on the west side of the landfill.
4. There was no ponding on the surface of the landfill and erosion concerns were not observed. Some older erosion rills on the north side of the landfill were present; however, the rills were fully vegetated and were likely formed prior to the establishment of vegetation.
6. There were no leachate seeps observed associated with the landfill. The previous seep area erosion stone coverage in the southwestern portion of the landfill had been expanded using leftover broken pieces of stone countertops sized similarly to the previously placed erosion stone.
15. Entrance to the final cover is via a vehicle pathway extending from just south of former monitoring well nest 91-MW-25/91-MW-26/91-MW-27 to south of former leachate piezometer LPZ-3. The north creek crossing, which provides the shortest access to the Area A MSWLF unit, had been repaired and was usable.
16. The perimeter fence, gate, and signs were in good condition. The entire waste area is not fenced; however, the small portion generally north of former subsurface methane monitoring probe LFGW-A3 that is not fenced is in a remote area with very limited access. Previous conversations with the DNR main and field office indicated fencing of this area was not necessary due to the remoteness of the location. Monitoring wells associated with the Area A MSWLF unit (with the exception of MW-4 and 91-MW-25, which are now associated with the East MSWLF unit) were abandoned following permit rescission.

AUTHENTICATION

INSPECTOR	Timothy C. Buelow, P.E. 	Date: 7/16/2024
REVIEWER	Nathan Ohrt 	Date: 7/16/2024