

West Des Moines, IA

PROJECT: WC,2025 LF Permit Renewal DATE: 12/30/2025  
LH,IA  
27225577.00

SUBJECT: Loess Hills Regional Sanitary TRANSMITTAL ID: 00001  
Landfill 65-SDP-01-72 Permit  
Renewal Application and Request  
for Permit Amendment

PURPOSE: For Record VIA: Info Exchange

## FROM

NAME	COMPANY	EMAIL	PHONE
Kasi Province West Des Moines, IA	SCS Engineers	KProvince@scsengineers.com	

## TO

NAME	COMPANY	EMAIL	PHONE
Mike Smith 502 East 9th Street Des Moines IA 50319- 0034 United States	Iowa, State of	mike.smith@dnr.iowa.gov	515-725-8200
beck.jolly@dnr.iowa.gov		beck.jolly@dnr.iowa.gov	

REMARKS: Good Afternoon, Mike,

Please see the attached Permit Renewal Application and Request for Permit Amendment - Equivalent Landfill Liner Evaluation for the Loess Hills Regional Sanitary Landfill.

Let us know if you have any questions.  
Thank you,

Kasi Province, PE\*, Project Professional  
SCS Engineers  
1690 All-State Court, Suite 100  
West Des Moines, Iowa 50265  
(515) 779-2227 (C)  
[kprovince@scsengineers.com](mailto:kprovince@scsengineers.com)

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[www.scsengineers.com](http://www.scsengineers.com)

*\*Licensed in Colorado and Iowa*

# Transmittal

DATE: 12/30/2025  
TRANSMITTAL ID: 00001

## DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	12/30/2025	Loess Hills Regional Sanitary Landfill Permit Renewal Application 65-SDP-01-72P 2025.12.30.2025.pdf	
1	12/30/2025	Loess Hills Request for Permit Amendment - Liner Equivalency Evaluation 2025.12.29.pdf	

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## COPIES:

Kelly.Danielson@WasteConnections.com

Rachel Hanigan

(Waste Connections, Inc. (99))

Zach Mahon

(SCS Engineers)

Tim Buelow

(SCS Engineers)

Christine Collier

(SCS Engineers)

December 30, 2025  
File No. 27225577.00

Mr. Mike Smith, P.E.  
Iowa Department of Natural Resources  
Land Quality Bureau  
6200 Park Avenue, Suite 200  
Des Moines, Iowa 50321

Subject: 2025 Permit Renewal Application  
Loess Hills Regional Sanitary Landfill  
Permit No. 65-SDP-01-72P

Dear Mr. Smith:

On behalf of Iowa Waste Services, LLC, SCS Engineers is pleased to submit this Permit Renewal Application for the Loess Hills Regional Sanitary Landfill for your review.

Following standard practice, the permittee and SCS have reviewed the current permit and planning documents. Form 50 for permit renewal applications has been completed. Section 1 has been reviewed and updated. Section 2 has been prepared as required with the Executive Summary. Referenced documents are either included in this submittal if updates occurred or the DocDNA number of the current approved plans has been included. Upon review of this documentation and attachments, the Agency representative has provided signature in Section 3.

Please feel free to contact us if you have any questions, require additional information, or need any further clarification.

Sincerely,



Kasi Province, P.E.  
Project Professional  
SCS Engineers



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

KDP/CLC

cc: Kelly Danielson, Division Landfill Manager  
Chaz Roberts, District Manager  
Ryan Mitchell, Operations Manager  
Rachel Hanigan, Region Engineer  
Bret Stephens, Plant Manager



# 2025 Permit Renewal Application

## Loess Hills Regional Sanitary Landfill

Prepared For:  
Iowa Waste Services, LLC  
59722 290<sup>th</sup> Street  
Malvern, IA 51551

Permit No. 65-SDP-01-72P

SCS ENGINEERS

Project No. 27225577.00 | December 2025

1690 All-State Court, Suite 100  
West Des Moines, IA 50265  
515-631-6160

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# 1.0 IOWA DEPARTMENT OF NATURAL RESOURCES FORM 50



## IOWA DEPARTMENT OF NATURAL RESOURCES

### Municipal Solid Waste Landfill

#### PERMIT APPLICATION FORM 50



New Permit

Permit Renewal (permit number)

65 - SDP - 01

- 72

MLF

Closure Permit

#### SECTION 1: PERMIT APPLICATION REQUIREMENTS

##### Owner of site

Name: Iowa Waste Services, LLC Phone: 402-641-8239  
Address: 59722 290th Street Fax:  
City, State, Zip: Malvern, Iowa 51551 E-mail: kelly.danielson@wasteconnections.com

##### Certified Operator Responsible for Operation at Facility

Name: Ryan Mitchell Phone: 402-641-8239  
Address: 59722 290th Street Fax:  
City, State, Zip: Malvern, Iowa 51551 E-mail: ryan.mitchell@wasteconnections.com

##### Permit Applicant

Name: Iowa Waste Services, LLC Phone: 402-641-8239  
Address: 59722 290th Street Fax:  
City, State, Zip: Malvern, Iowa 51551 E-mail: kelly.danielson@wasteconnections.com

##### Design Engineer (PE)

Name: Christine L. Collier, P.E. Phone: 515-631-6160  
Address: 1690 All-State Court, Suite 100 Fax:  
City, State, Zip: West Des Moines, Iowa 50265 E-mail: ccollier@scsengineers.com  
Iowa Engineer License #: 17963 Expiration Date: 12/31/2025

##### Responsible Official for the Facility

Name: Kelly Danielson Phone: 402-641-8239  
Address: 59722 290th Street Fax:  
City, State, Zip: Malvern, Iowa 51551 E-mail: kelly.danielson@wasteconnections.com

##### Agency and Responsible Official of Agency Served (if any)

Name: Kelly Danielson Phone: 402-641-8239  
Address: 59722 290th Street Fax:  
City, State, Zip: Malvern, Iowa 51551 E-mail: kelly.danielson@wasteconnections.com

##### Facility

Name: Loess Hills Regional Sanitary Landfill  
Address: 59722 290th Street City, State, Zip: Malvern, Iowa 51551

Legal Description: Pcl A in NE $\frac{1}{4}$  SE $\frac{1}{4}$ , parts of NE $\frac{1}{4}$  SE $\frac{1}{4}$  & NW $\frac{1}{4}$  SE $\frac{1}{4}$ , SW $\frac{1}{4}$  NE $\frac{1}{4}$ , SE $\frac{1}{4}$  NE $\frac{1}{4}$ , tract S of ditch in NE $\frac{1}{4}$  SW $\frac{1}{4}$ , and SE $\frac{1}{4}$  NW $\frac{1}{4}$ , Sec 23, T72N R42W Mills County, Iowa; and SW $\frac{1}{4}$  SW $\frac{1}{4}$  S of S ROW RELOC HWY 34 & W of C/L CO RD, and S of S ROW Line RELOC HWY 34 & E of C/L CO RD SW $\frac{1}{4}$  SW $\frac{1}{4}$ , and SE $\frac{1}{4}$  SW $\frac{1}{4}$  S of RELOC HWY 34 & W of RR, in Section 13, T72N, R42W; and SM TR NE COR NW $\frac{1}{4}$  NW $\frac{1}{4}$ , and TR N & E PT NW $\frac{1}{4}$  NW $\frac{1}{4}$ , and TR NW PT NW $\frac{1}{4}$  NE $\frac{1}{4}$  W of RR, and NW $\frac{1}{4}$  NE $\frac{1}{4}$  W of RR EXC TR, and NE $\frac{1}{4}$  NW $\frac{1}{4}$  EXC TR IN N & E PT, and NW $\frac{1}{4}$  NW $\frac{1}{4}$  EXC TR NE COR, and SW $\frac{1}{4}$  NW $\frac{1}{4}$ , and SE $\frac{1}{4}$  NW $\frac{1}{4}$ , and SW $\frac{1}{4}$  NE $\frac{1}{4}$  W of RR, and SE $\frac{1}{4}$  NE $\frac{1}{4}$  W of RR in Section 24, T72N, R42W, Mills County, Iowa.

##### Landfill is part of the following solid waste comprehensive planning area:

Planning Area Name: Iowa Waste Services

Date of Last Approved Plan: February 1, 2022

Service area of the landfill (include unincorporated areas and out of state generators): The cities of Carson, Carter Lake, Crescent, Council Bluffs, Hancock, Macedonia, McClelland, Oakland, Treynor, Underwood, Walnut, and the unincorporated areas in

Pottawattamie County; and the cities of Emerson, Glenwood, Hastings, Henderson, Malvern, Pacific Junction, Silver City, and the unincorporated areas in Mills County and all cities and the unincorporated areas in Montgomery County.

Population Served: 115,280 (Comp Plan)

## **SECTION 2: PERMIT APPLICATION SUPPORTING DOCUMENTATION**

### **PLANS AND SPECIFICATIONS**

Checking the appropriate boxes below certifies that the documents submitted in conjunction with this application form are complete and in compliance with the applicable chapters of the Iowa Administrative Code. While some of the documents below may have been submitted previously, updated copies of each are required to be provided with each permit renewal application, unless a prior document remains current and is identified by Doc ID#, Section, and Page.

#### **Required Plans and Specifications**

**Executive Summary**

An executive summary shall address the following:

- Summary of modifications, if any, to the approved plans and specifications that occurred during the current permit cycle.
- Summary of each special provision of the current permit to determine if it is to remain the same, be revised or be removed.
- Provide documentation and certification as required for new permit amendment requests, if any.
- Provide documentation and certification as required for equivalency review requests, if any.
- Provide documentation and certification as required for new variance requests from Iowa Administrative Code requirements, if any.

An organizational chart in accordance with Iowa Administrative Code 567 paragraph [113.5\(1\)"b"](#).

**No Revision Required** - See Doc ID#, Section, and Page: \_\_\_\_\_

A site exploration and characterization report for the facility that complies with the requirements of subrule [113.6\(4\)](#).

**No Revision Required** - See Doc ID#, Section, and Page: DocDNA# 105511, App 2, page 89

Design plans and specifications for the facility, and quality control and assurance plans, that comply with the requirements of rule [113.7\(455B\)](#).

**No Revision Required** - See Doc ID#, Section, and Page: Plans & Specs: DocDNA# 105511, App 3, page 763  
QCA: DocDNA #105511, App 4, page 1665

A development and operations (DOPS) plan for the facility, an emergency response and remedial action plan (ERRAP), and proof of MSWLF Operator Certification that comply with the requirements of rule [113.8\(455B\)](#).

**No Revision Required** - See Doc ID#, Section, and Page: DOPS: DocDNA# 105511, App 5, page 1742

An environmental monitoring plan that complies with the requirements of rules [113.9\(455B\)](#) and [113.10\(455B\)](#).

**No Revision Required** - See Doc ID#, Section, and Page: HMSP: DocDNA #105511, App 9, page 1853 & DocDNA #112334; LFGP: DocDNA #105511, App 9, page 1837

The project goals and time lines, and other documentation as necessary to comply with subrule [113.4\(10\)](#) and other requirements of the Department if an RD&D permit is being requested or renewed.

**No Revision Required** - See Doc ID#, Section, and Page: N/A

Proof of financial assurance in compliance with rule [113.14\(455B\)](#).

**No Revision Required** - See Doc ID#, Section, and Page: \_\_\_\_\_

A closure and postclosure plan that complies with the requirements of rules [113.12\(455B\)](#) and [113.13\(455B\)](#).

**No Revision Required** - See Doc ID#, Section, and Page: DocDNA #105511, App 11 and 12, pages 1928 & 1942

Comprehensive plan requirements. Attach a copy of the most recent comprehensive plan approval or amendment letter.

**No Revision Required** - See Doc ID#, Section, and Page: \_\_\_\_\_

In addition to the documents required above, the permit holder shall comply with the implementation plan requirements of subrule [113.2\(9\)](#), the public notice requirements of subrule [113.4\(12\)](#), and the record-keeping and reporting requirements of rule [113.11\(455B\)](#).

If the department finds the permit application information to be incomplete, the department shall notify the applicant of that fact and of the specific deficiencies. If the applicant fails to correct the noted deficiencies within 30 days, the department may reject the application and return the application materials to the applicant. The applicant may reapply without prejudice.

**SECTION 3: APPLICANT SIGNATURE**

Signature of Permit Applicant:



Date:

12/19/25

Printed Name:

Kelly Danielson

Title:

Division Landfill Manager

Applications for sanitary disposal projects must be accompanied by the plans, specifications and additional information required by the applicable solid waste rules under Iowa Administrative Code.

Send completed applications with attached information to the DNR project officer via email or file sharing platform.

For questions concerning this application contact Brian Rath at 515-537-4051, [brian.rath@dnr.iowa.gov](mailto:brian.rath@dnr.iowa.gov)

## 2.0 EXECUTIVE SUMMARY

### 2.1 INTRODUCTION

SCS Engineers, on behalf of the Iowa Waste Services, LLC, has prepared the permit renewal application for the Loess Hills Regional Sanitary Landfill (Landfill). The information required in the Executive Summary is listed in Section 2.0 of the Permit Application Form 50 and includes a summary of modifications, special provisions, permit amendments, and documentation and certification as required for new permit amendment requests and new waiver requests. See **Figure 1 Site Layout** for the facility's site map.

### 2.2 SUMMARY OF MODIFICATIONS

Modifications to the current plans and specifications during the current permit cycle (December 10, 2020, to present) are summarized in Table 1.

Table 1. Permit Modifications History

Date	Permit Modification
04/16/2021	Permit Revision #1 incorporated DNR approval of the Monitoring Well Installation and Abandonment documentation (X. Special Provision #4.b), the Construction Quality Assurance Report – 2020 Gas Collection and Control System (X. Special Provision #5.e), and the Permit Modification – Final Cover Plan and Excavation Plan Revisions (X. Special Provision #2.a and 14.f).
10/18/2021	Permit Revision #2 incorporated DNR approval of the Construction Observation Report – Cell G East -N and authorized the use Cell G East-N for waste disposal (X. Special Provision #3.r).
06/15/2022	Permit Revision #3 approved and authorized the construction of Cell G North and Cell M (X. Special Provision #2.b).
07/20/2022	Permit Revision #4 approved and authorized the construction of the Loess Hills Regional Landfill Gas Collection and Control System Design expansion (X. Special Provision #5.f).
11/17/2022	Permit Revision #5 approved and incorporated the Construction Observation Report Cell G North – M (X. Special Provision #3.s)
12/14/2022	Permit Revision #6 incorporated DNR approval of the Construction Quality Assurance Report for the 2022 Gas Collection and Control System (X. Special Provision #5.g).
03/01/2023	Permit Revision #7 approved the lateral and vertical expansion.
05/31/2023	Permit Revision #8 incorporated the modification to Special Provision #11 to allow interim leachate recirculation.
06/05/23	Permit Revision #9 approved the 2023 Gas Collection and Control System construction (X. Special Provision #5.h).
08/11/2023	Permit Revision #10 incorporated the DNR approval of revisions to the gas monitoring network (X. Special Provision #5) and the approval of the 2023 GCCS Phase II Expansion Design (X. Special Provision #5.i).
11/15/2023	Permit Revision #11 incorporated the approval of the 2023 GCCS Phase II Expansion Report (X. Special Provision #5.j).

03/05/2024	Permit Revision #12 incorporated Cell D East Lift Station Replacement and Waste Excavation Plan (X. Special Provision #3.t) and approved leachate recirculation to July 31, 2024 (X. Special Provision #11).
03/21/2024	Permit Revision #13 removed the alternative daily cover provision using lead-contaminated soil (X. Special Provision #7).
12/05/2024	Permit Revision #14 incorporated the revision to underdrain design (X. Special Provision #3), the approval of Cell D East Leachate Lift Station Replacement (X. Special Provision #3.u), and incorporated the gas collection expansion (X. Special Provision #3.v).
01/13/2025	Permit Revision #15 approved the monitoring well abandonments (X. Special Provision #4.m).
03/20/2025	Permit Revision #16 incorporated the updates to procedure for submitting tonnage fees and reports (IX. General Provisions), approved the start of construction of Cell H (X. Special Provision #2.b), approved the HMSP update (X. Special Provision #4), and approved the installation of Gas Probes GP-2, GP-4, GP-17, GP-18, GP-19, GP-20, GP-21, GP-22, GP-23, and GP-24 (X. Special Provision #5.k).
04/15/2025	Permit Revision #17 incorporated the approval of leachate recirculation (X. Special Provision #11).
04/28/2025	Permit Revision #18 approved the use of lead-contaminated soil for alternative daily cover (X. Special Provision #7).
09/29/2025	Permit Revision #19 approved Cell H for filling (X. Special Provision #3.w)

## 2.3 SPECIAL PROVISIONS OF CURRENT PERMIT

Following is a summary of each special provision of the current permit in addition to a brief discussion regarding if it is to remain the same, be revised, or be removed.

### V. Licensed Design Engineer

Please update the licensed design engineer to:

Name: Timothy C. Buelow, P.E.  
 Address: 1690 All State Court, Suite 100, West Des Moines, IA 50265  
 Phone: 515-631-6160  
 Email: [tbuelow@scsengineers.com](mailto:tbuelow@scsengineers.com)  
 Iowa License Number: 14445

### X. Special Provisions

#### **X. Special Provision #1.**

*The permit holder is authorized to accept solid waste for disposal in accordance with the approved Iowa Waste Services Association Comprehensive Plan. The Comprehensive Plan as approved by the DNR on November 4, 2015, any approved amendments to the plan; and the latest plan update, are incorporated as permit plan documents.*

*The permitted service area includes: The cities of Carson, Carter Lake, Crescent, Council Bluffs, Hancock, Macedonia, McClelland, Oakland, Treynor, Underwood, Walnut, and the unincorporated areas in Pottawattamie County; and the cities of Emerson, Glenwood, Hastings, Henderson, Malvern, Pacific Junction, Silver City, and the unincorporated areas in Mills County and all cities and the unincorporated areas in Montgomery County.*

Please update the comprehensive plan to the most recent comprehensive plan submission and approval date of February 1, 2022, included with this submittal in **Appendix A**. There are no other changes required or requested for Special Provision #1.

## **X. Special Provision #2.**

*The permit holder shall develop and operate the site in accordance with 567 IAC Chapter 113, and the hereby approved Comment Response – Permit Amendment Application: Lateral and Vertical Expansion, dated December 22, 2022, as submitted by Weaver Consultants Group, and the following:*

- a. *Waste disposal is limited to Cell A, Cell C, Cell D East, Cell D West, Cell E East, Cell E West Cell F East, Cell F West, Cell G West, Cell G East – N, and Cell G North - M. The site vertical waste height shall not exceed an elevation of 1288 feet as shown on Sheet 6, Top of Waste Grades as contained in the 2020 Permit Renewal Documentation as Revised October 13, 2020 by Evora.*
- b. *The permit holder is authorized to construct Cell H North in accordance with the Request for Approval to Construct – Cell H, dated January 31, 2025 and the Response to Comment – Request for Approval to Construct – Cell H, dated February 20, 2025; both as submitted by SCS Engineers and approved on March 20, 2025. (Amendment #16)*

*Any construction beyond these approved cells requires prior DNR approval. Also, prior to waste disposal in the approved expansion areas, and in accordance with 567 IAC 113.4(6), the DNR shall be notified when the construction of a new MSWLF unit or significant components thereof have been completed so that the DNR may inspect the facility to determine if the project has been constructed in accordance with the design approved by the DNR.*

- c. *The review comments, dated November 7, 1997 from the DNR's Conservation and Recreation Division relative to the comprehensive listing of plant and animal species, in accordance with 567 IAC 113.6(2)"g" for all development and soil borrow areas, is incorporated as part of the permit documents.*
- d. *The review comments, dated March 18, 1998 from the State Historical Society relative to the determination of the presence of and assessment of the impact on any archaeological, historical, or architecturally significant properties for all development and soil borrow areas on the proposed site, in accordance with 567 IAC 113.6(2)"h", is incorporated as part of the permit documents.*
- e. *The permit holder shall collect leachate from the leachate control system and properly dispose of the leachate either by treatment in an on-site facility, discharge with an NPDES permit; or by discharge to the City of Omaha publicly owned treatment works (POTW). If the*

discharge is to a POTW with a pretreatment program approved by the DNR, the discharge must comply with the terms and conditions of a local permit issued for the discharge by the POTW. If the discharge is to a POTW without an approved pretreatment program a completed treatment agreement form shall be submitted to the DNR's Wastewater Section. Copies of the local permit or treatment agreement shall be provided to the DNR's Solid Waste Section and the local Field office. The treatment agreement must be on DNR Form 31 (542-3221) and must comply with the requirements of subrule 64.3(5).

*The permit holder is authorized to accept leachate from the Montgomery County Regional Sanitary Landfill for co-mingled temporary storage in the existing leachate lagoon and eventual transport to the City of Omaha POTW for treatment.*

*The leachate transport and disposal shall be in accordance with the letter dated, February 16, 2001, as submitted by Barker Lemar and the authorization letter from the City of Omaha, dated January 18, 2001, and approved on October 27, 2003. Freeze protection and spill containment measures shall be implemented at each landfill for the transfer of leachate between sites.*

*In addition, the permit holder shall monthly measure leachate head levels and elevations at all piezometers and record the volume of leachate collected and transported to the treatment works. Records of leachate contaminants testing required by the treatment works and any NPDES permit for on-site treated leachate discharges shall be maintained.*

*The permit holder shall annually submit a Leachate Control System Performance Evaluation (LCSPE) Report pursuant to subparagraph 113.7(5)"b"(14) as a supplement to the facility Annual Water Quality Report, as defined in subrule 113.10(10).*

*Effective control of leachate in unlined units shall be evaluated on a case-by-case basis to determine how to achieve the lowest possible leachate head; and by complying with the environmental monitoring and corrective action requirements for groundwater and surface water.*

- f. *In accordance with the variance request, dated March 29, 2019, as submitted by Barker Lemar Engineering Consultants; and the approval, dated June 17, 2019, the permit holder is authorized to directly incorporate nonhazardous petroleum contaminated soils (PCS) into the landfill active area without pre-treatment, as required by IAC 567-109.11(2)"d" through IAC 567-109.11(2)"l", as incorporated as part of the permit documents on July 22, 2019.*
- g. *The permit holder shall follow the approved Emergency Response and Remedial Action Plan (ERRAP) procedures during all emergencies pursuant to subrule 113.8(5), and as contained in Appendix 6 of the hereby approved 2020 Permit Renewal Documentation, dated June 17, 2020 as Revised October 13, 2020 by Evora. An updated ERRAP shall be submitted at the time of each permit renewal application. An updated ERRAP shall be included with any request for permit modification to incorporate a facility expansion or significant changes in facility operation that require modification of the currently approved ERRAP.*

Several modifications are requested to Special Provision #2.

- Please update the permit renewal application to include this application and the ERRAP included in **Appendix B**.
- Please update Item #2.a to include Cell H as part of the waste disposal limits and revise the vertical waste height to state that it shall not exceed an elevation of 1,298 feet, as shown in Table 1 of the 2022 Permit Amendment Application: Lateral and Vertical Expansion document dated September 26, 2022, prepared by Weaver Consultants Group.
- Please update Item #2.c to include the most recent comprehensive list of plant and animal species as found in the 2022 Permit Amendment Application: Lateral and Vertical Expansion document dated September 26, 2022, prepared by Weaver Consultants Group.

There are no other changes required or requested for Special Provision #2.

#### **X. Special Provision #3.**

*The permit holder is authorized to fill in units that have been approved and constructed in accordance with 567 IAC Chapter 113.7(5), and the hereby approved Comment Response – Permit Amendment Application: Lateral and Vertical Expansion, dated December 22, 2022, as submitted by Weaver Consultants Group, and the Request for Permit Amendment Revised Groundwater Underdrain System, dated October 31, 2024, as submitted by SCS Engineers and the following:*

- a. *The Construction Observation Report and Drawings for Cell A, both dated January 25, 1999, as submitted by Barker Lemar & Associates, Inc. (d.b.a. Barker Lemar Engineering Consultants) and approved on February 10, 1999 are incorporated as part of the permit documents.*
- b. *The Shop/Scalehouse Proposed Final Grading Plan, dated March 23, 1999, as submitted by Barker Lemar Engineering Consultants and approved on July 14, 1999 is incorporated as part of the permit documents.*
- c. *The Construction Certification Report for the construction of Cell C, dated August 9, 2004, as prepared and certified by Barker Lemar Engineering Consultants and approved on August 19, 2004 is incorporated as part of the permit documents.*
- d. *The Construction Certification Report for the East Half of Cell D and the sedimentation pond, dated June 23, 2006, as prepared by Barker Lemar Engineering Consultants and approved on August 3, 2006 is incorporated as part of the permit documents.*
- e. *The Slope Stability Calculations, dated June 6, 2008, as submitted by Barker Lemar Engineering Consultants, and approved on August 22, 2008, are incorporated as part of the permit documents.*
- f. *The Settlement Calculations, dated May 29, 2008, as submitted by Barker Lemar Engineering Consultants, and approved on August 22, 2008, are incorporated as part of the permit documents.*

- g. *The Construction Certification Report for the West Half of Cell D, dated October 10, 2008, and prepared by Barker Lemar Engineering Consultants and approved on November 12, 2008 is incorporated as part of the permit documents.*
- h. *The Construction Certification Report for the placement of the tire chip protective layer on the sideslope of the West Half of Cell D, dated January 19, 2009, and prepared by Barker Lemar Engineering Consultants and approved on February 4, 2009 is incorporated as part of the permit documents.*
- i. *The Leachate Piezometer Plugging Documentation for LW-1, dated January 20, 2009, and prepared by Barker Lemar Engineering Consultants, and approved on February 4, 2009 is incorporated as part of the permit documents.*
- j. *The permit holder is authorized to utilize Auto Shredder Residue from Alter as a substitute for the 12-inch granular drainage layer over the geocomposite drainage layer, in accordance with the request dated July 30, 2009, and approved on September 30, 2009.*
- k. *The Construction Certification Report for the construction of the abutment liner between Cell D West and the unlined area, dated September 23, 2009, as submitted by Barker Lemar Engineering Consultants, and approved October 1, 2009, is incorporated as part of the permit documents.*
- l. *The Construction Observation Report for the East Half of Cell E Construction, dated December 23, 2010 and supporting information: Proposed Tire Derived Aggregate Stress Colum Testing Program, dated June 10, 2011, East Half of Cell E Project Certification and Shelby Tube Locations, dated June 15, 2011 and Stress Column Test Results, dated July 12, 2011 all as submitted by Barker Lemar Engineering Consultants, and approved on July 18, 2011, is incorporated as part of the permit documents.*
- m. *Plan sheets 22, 23, 24 and 28, dated January 31, 2012, as submitted by Barker Lemar Engineering Consultants, and approved on May 21, 2012, revised to show the required one-foot thick granular layer over the geosynthetic leachate drainage layer, are incorporated as part of the permit documents.*
- n. *The Construction Observation Report for the East Half of Cell F Construction, dated December 7, 2012, as submitted by Barker Lemar Engineering Consultants, and approved on December 17, 2012, is incorporated as part of the permit documents.*
- o. *The Construction Observation Report for the West Half of Cells E and F Construction, dated March 23, 2016, as submitted by Barker Lemar Engineering Consultants, and approved on April 21, 2016, is incorporated as part of the permit documents.*
- p. *The Construction Observation Report for Cells E and F West, dated November 14, 2019, and the Supplement to the Cells E and F West Construction Observation Report- Proctors, dated November 21, 2019; both as submitted by Barker Lemar Engineering Consultants, as approved on November 22, 2019 is incorporated as part of the permit documents.*

- q. *The Construction Observation Report - Cells G West and Area D Final Cover, dated January 13, 2020, as submitted by Barker Lemar Engineering Consultants, as approved on February 13, 2020 is incorporated as part of the permit documents.*
- r. *The Construction Observation Report - Cells G East -N, dated October 18, 2021, as submitted by SCS Engineers, is hereby incorporated as part of the permit documents. The permit holder is authorized to use Cells G East -N for waste disposal.*
- s. *The Construction Observation Report Cell G North – M, dated November 14, 2022, as submitted by SCS Engineers, is hereby incorporated as part of the permit documents. The permit holder is authorized to use Cell G North – M for waste disposal.*
- t. *The Cell D East Lift Station Replacement and Waste Excavation Plan, dated February 12, 2024, as submitted by SCS Engineers, is hereby approved and incorporated into the permit.*
- u. *The Construction Observation Report Cell D East Leachate Lift Station Replacement, dated November 5, 2024, as submitted by SCS Engineers, is hereby approved and incorporated into the permit.*
- v. *The Construction Observation Report 2024 Gas Collection and Control System Expansion, dated November 19, 2024, as submitted by SCS Engineers, is hereby incorporated into the permit.*
- w. *The Construction Observation Report Cell H, dated September 26, 2025, as submitted by SCS Engineers, is hereby approved and incorporated into the permit..*

There are no other changes required or requested to Special Provision #3.

#### **X. Special Provision #4.**

*Hydrologic monitoring at the site shall be conducted in accordance with 567 IAC 113.10; and the Hydrologic Monitoring System Plan (HMSP) as contained in the hereby approved Comment Response – Permit Amendment Application: Lateral and Vertical Expansion, dated December 22, 2022, as submitted by Weaver Consultants Group, and the HMSP and Gas Monitoring Plan Update/Response, dated February 20, 2025, as submitted by SCS Engineers and the following:*

- a. *DNR construction documentation form 542-1277 and boring logs for all monitoring wells and piezometers shall be submitted within 30 days of installation. DNR construction documentation form 542-1323 shall be submitted within 30 days of establishing surface water monitoring points.*
- b. *Abandonment of any monitoring point requires prior approval by the DNR. The permit holder is authorized to properly plug and abandon water level gauging points not proposed for water quality analysis. The permit holder shall submit DNR Form 542-1226 for the abandonment of each well within 30 days of abandonment.*
- c. *The monitoring well construction documentation forms for monitoring points MW-25, MW-28, MW-29, and MW-30, dated November 1, 2011, as submitted by Barker Lemar*

Engineering Consultants, and approved on December 19, 2011, are incorporated as part of the permit documents.

- d. The monitoring well construction documentation forms for monitoring points MW-26 and MW-27, dated April 19, 2012, as submitted by Barker Lemar Engineering Consultants, and approved on May 21, 2012, are incorporated as part of the permit documents.
- e. The monitoring well construction documentation form for monitoring wells MW-8R, MW-11R, MW-26R, MW-27R, and bracketing well MW-31; and the well abandonment forms for monitoring wells MW-26 and MW-27, attached to the correspondence, dated December 28, 2020, as submitted by Evora Consulting, and approved on April 16, 2021 are incorporated as part of the permit documents. (Amendment #1 Doc #99202)
- f. The permit holder shall conduct background and routine semiannual groundwater sampling and analysis; as well as perform statistical tests for the approved monitoring points for the appropriate list of parameters in accordance with rule 113.10(455B). In addition, the permit holder shall either sample for total suspended solids (Method I376585, with a reporting limit goal of <= 2 mg/l), or measure turbidity levels, as a means to correlate turbidity to TSS. Groundwater samples shall **not** be field-filtered prior to laboratory analysis.
- g. The frequency for full Appendix II analysis at monitoring points that are in assessment monitoring and have had at least two (2) rounds of analysis using the entire Appendix II list may be increased to once every (5) five years. If monitoring points exit assessment monitoring and later return to assessment monitoring an additional two (2) rounds of analysis using the entire Appendix II list is required.
- h. The permit holder shall measure groundwater elevations within 1/100 of a foot in each well and immediately prior to purging, each time groundwater is sampled.
- i. The permit holder shall collect semiannual groundwater elevation measurements from GWPZ-E in order to measure the separation of the base of the MSWLF unit from the groundwater table as required in paragraph 113.6(2)"i". This data shall be included in the facilities' AWQR.
- j. The Assessment of Corrective Measures Report, dated December 20, 2019; as submitted by Barker Lemar Engineering Consultants and approved on June 29, 2020, is incorporated as part of the permit documents.
- k. The Selection of Remedy and Corrective Action Groundwater Monitoring Program, dated October 30, 2020, as submitted by Evora Consulting, is hereby incorporated as part of the permit documents.
- l. An Annual Water Quality Report (AWQR) summarizing the effects the facility is having on groundwater quality shall be submitted to the DNR's Solid Waste Section by January 31 each year. This report shall be prepared in accordance with subrule 113.10(10) by a qualified groundwater scientist pursuant to paragraph 113.10(1)"d"; and by using the DNR Annual Water Quality Report Format.

m. *The Monitoring Well/Piezometer Abandonment Forms, received December 30, 2024, as submitted by SCS Engineers, for monitoring wells; MW-32, MW-33A, MW-33B, MW-34, MW-35A, MW-35B, MW-36, MW-37, MW-38, MW-39, MW-40, MW-41A, MW-41B, MW-42, MW-43, MW-44A, MW-44B, MW-45A, MW-45B, MW-46, and MW-47 are hereby approved and incorporated into the permit.*

There are no other changes required or requested to Special Provision #4.

#### **X. Special Provision #5.**

*The permit holder shall conduct subsurface gas monitoring in accordance with the hereby approved Permit Revision Request – Landfill Gas Monitoring Network, dated August 7, 2022, as submitted by SCS Engineers, and the following:*

- a. *The permit holder shall quarterly monitor and annually report site methane concentrations in accordance with rule 113.9(455B). Specific actions, as defined in the rules, shall be taken in the event of methane gas level limit exceedances.*
- b. *The permit holder shall annually submit a report by January 31 summarizing the methane gas monitoring results and any action taken resulting from gas levels exceeding the specified limits during the previous 12 months as a supplement to the facility Annual Water Quality Report, as defined in subrule 113.10(10).*
- c. *The Gas Vent As-Built Information, dated May 4, 2010, and revisions dated June 22, 2011; both as submitted by Barker Lemar Engineering Consultants, and approved on July 18, 2011, are incorporated as part of the permit documents.*
- d. *The Gas Collection and Control System Design and Construction Notification, dated May 1, 2020; as well as the Gas Collection and Control System Design Public Notification, dated May 15, 2020; both as submitted by Golder Associates Inc. and approved on August 6, 2020, are incorporated as part of the permit documents.*
- e. *The Construction Quality Assurance Report - 2020 Gas Collection and Control System, dated February 16, 2021, as submitted SCS Engineers and approved April 16, 2021, is incorporated as part of the permit documents. (Amendment #1 Doc #99776)*
- f. *The Gas Collection and Control System Design expansion, dated April 22, 2022, as submitted by ESI Solutions, is hereby approved and incorporated as part of the permit documents. The permit holder is, hereby, authorized to construct the gas collection and control system. (Amendment #4)*
- g. *The Construction Quality Assurance Report for the 2022 Gas Collection and Control System, dated November 15, 2022, as submitted by SCS Engineers, is hereby approved and incorporated as part of the permit documents. (Amendment #6 Doc #104576)*
- h. *The Construction Quality Assurance Report for the 2023 Gas Collection and Control System, dated May 31, 2023, as submitted by SCS Engineers, is hereby approved and incorporated as part of the permit documents. (Amendment #9 Doc #106892)*

- i. *The 2023 GCCS Phase II Expansion Design, dated August 10, 2023, as submitted by ESI and approved August 11, 2023, is incorporated as part of the permit documents. The permit holder is, hereby, authorized to construct the gas collection and control system. (Amendment #10)*
- j. *The Construction Quality Assurance Report for the 2023 Gas Collection and Control System, dated October 27, 2023, as submitted by SCS Engineers, is hereby approved and incorporated as part of the permit documents. (Amendment #11)*
- k. *The Landfill Gas Monitoring Points Installation Documentation [Gas Probes GP-2, GP-4, GP-17, GP-18, GP-19, GP-20, GP-21, GP-22, GP-23, and GP-24], dated February 5, 2025, as submitted by SCS Engineers, is hereby approved and incorporated as part of the permit documents. (Amendment #16)*

There are no changes required or requested to Special Provision #5.

#### **X. Special Provision #6.**

*The permit holder is authorized to accept Automobile Shredder Residue (ASR) from the Alter Trading Corporation facility in Council Bluffs, Iowa in accordance with the August 6, 1998 correspondence, and October 2, 1998 facsimile and included ASR test data, as submitted by Terracon Environmental, Inc. (Terracon) and approved on October 13, 1998; and in accordance with the Request for Permit Amendment- Use of Auto Shredder Residue as Alternative Daily Cover, dated August 18, 2015, as submitted by Barker Lemar Engineering Consultants, and approved on May 17, 2016.*

*The permit holder is authorized to use an ASR/Soil combination or solely ASR as an alternative cover material, subject to the following:*

- a. *The permit holder shall remove all materials exceeding 1.5 inches in size before solely using ASR as an alternative daily cover material. A stockpile quantity exceeding 200 tons, or approximately 1-week usage, shall be disposed in the workforce area at the end of each work week. When solely using ASR, only ASR placed at a ratio of 3:1 (3 tons of waste to 1 ton of approved ASR) will be considered alternative daily cover. Any material used in excess of that ratio shall be reported as waste.*

OR,

*The permit holder shall remove all materials exceeding 1.5 inches in size before mixing ASR with soil on a 50% by volume basis and using as an alternative daily cover material. The ratio of ASR to soil shall not exceed 50% ASR by volume. Quantities exceeding 350 tons per stockpile, or approximately 1-week usage, shall be disposed in the workforce area. When using a mixture of ASR and soil, only ASR placed at a ratio of 6:1 (6 tons of waste to 1 ton of approved ASR) will be considered alternative daily cover. Any material used in excess of that ratio shall be reported as waste.*

- b. *The ASR or ASR/Soil mixture may be used in lieu of the 6-inch daily cover requirement. Any additional ASR applied above the 6-inch requirement will not be exempt from tonnage fees.*

*The ASR or ASR/Soil mixture shall not be used as a substitute for intermediate or final soil cover.*

- c. *The waste must be compacted before the ASR or ASR/Soil mixture is applied, to provide an even surface to minimize ponding, prevent pockets, and to maximize uniform surface drainage.*
- d. *The ASR or ASR/Soil mixture shall be applied to the active waste face at the end of each day of operations and more frequently if necessary to control fire or fire hazards, blowing litter, odors, insects, and rodents.*
- e. *The permit holder shall scarify the ASR or ASR/Soil mixture cover material over the working face area on which it is applied prior to each day's use of that area as a working face.*
- f. *The permit holder shall maintain in the landfill files appropriate quarterly laboratory analytical documentation that demonstrates that the ASR is not hazardous by TCLP metals test, contains no PCBs that equal or exceed 50 ppm, is not ignitable, and has certification from the generator that the material was processed according to the above noted specifications. Documentation reporting of such testing shall be submitted to both the DNR's Main and local Field office.*
- g. *The use of ASR or ASR/Soil mixture for daily cover usage by any other generator than the one approved above shall be subject to specifications approval by the DNR.*
- h. *If the ASR or ASR/Soil mixture is found by the DNR not to be performing satisfactorily, its use shall be discontinued and the remaining materials shall be disposed in the working face.*

There are no changes required or requested to Special Provision #6.

#### **X. Special Provision #7.**

*The permit holder is authorized to accept lead-contaminated soil. The soil may be used as alternative daily cover placed over the workface after each day of operation, stockpiled for later use as alternative daily cover, or be directly placed in the working face for disposal, as follows:*

- a. *Prior to shipment, each 1,000-tons of soil shall be tested for lead using the Toxicity Characteristic Leaching Procedure, TCLP. Any load of soil that tests above 5.0 mg/l for lead shall be rejected.*
- b. *All soil shall either be used as alternative daily cover, stockpiled for later use as alternative daily cover, or disposed at the working face. If the soil is accepted for disposal, it shall be disposed of the same day the shipment is received.*
- c. *Runoff from an alternative daily cover stockpile, the working face, and areas that have received alternative daily cover shall be managed as leachate (567-paragraph 113.7(8)"b"). The permit holder shall maintain on-site an engineering design prepared by an Iowa-licensed professional engineer that demonstrates that stormwater controls are designed and utilized to maintain compliance with 567-subrule 113.7(8). Further guidance is provided in the United States Environmental Protection Agency's 40 CFR Part 258 Technical Manual.*

- d. *The permit holder is authorized to use lead-contaminated soil at a ratio of 3:1 (3 tons of waste to 1 ton of lead-contaminated soil) as an alternative daily cover. Any lead-contaminated soil used in excess of that ratio shall be reported as waste.*
- e. *A quarterly report shall be submitted to the DNR detailing the amount of soil accepted, the amount of soil used for alternative daily cover, the size of the working face of the landfill at the time of placement, TCLP analytical results, the amount and location of soil that is landfilled and soil that is used as alternative daily cover.*
- f. *This authorization is valid until the expiration of this permit. At that time, the permit holder shall request the authorization be extended*

There are no changes required or requested to Special Provision #7.

#### **X. Special Provision #8.**

*The permit holder is authorized to collect grass clippings, leaves and garden wastes for the purposes of land application reuse as mulch or for other beneficial reuses.*

- a. *Non-composted yard waste shall not be stored for more than two (2) weeks before land application.*
- b. *All non-biodegradable bags and containers shall be removed prior to land application.*
- c. *The wastes may be used as mulch for off-site purposes and on landfill areas with intermediate and final cover and on soil borrow areas.*
- d. *Yard waste shall be land applied at a rate not to exceed 2 tons per year per acre.*
- e. *Mulch applied to existing vegetated landfill areas shall be applied at a rate such that established vegetation is not adversely impacted by its use.*

There are no changes required or requested to Special Provision #8.

#### **X. Special Provision #9.**

*The permit holder is authorized to accept and temporarily store a maximum of 1500 waste tire equivalents for the purpose of reclamation processing or disposal. Tire storage and processing shall be conducted at approved plan locations. The tires shall be removed at least once every 120 days and transported to the appropriate reclaimer/processor, or disposed of at the site. All operations shall be in accordance with subrule 109.10(3), IAC 567 Chapter 117, and the current local fire code.*

There are no changes required or requested to Special Provision #9.

## **X. Special Provision #10.**

*The permit holder is authorized to temporarily store white goods and scrap metal in an area designated by the operator. No discarded appliance may be stored for more than 270 days without being demanufactured. No scrap metal or discarded appliance may be stored for more than a total of twelve (12) months, including demanufacturing processing, prior to being recycled/salvaged. The operator and salvaging contractor shall comply with applicable provisions of IAC 567 Chapter 118 and the General Provisions of this permit. No scavenging shall be allowed*

There are no changes required or requested to Special Provision #10.

## **X. Special Provision #11.**

*The permit holder is authorized to recirculate leachate in accordance with the following:*

- a. *Leachate application/injection is restricted to only those MSWLF units with a composite liner constructed in accordance with paragraph 113.7(5)“a”(1); having a waste thickness of at least 20 feet; and being located no closer than 75 feet from the edge of the liner.*
- b. *The leachate recirculation system shall not contaminate waters of the state, contribute to erosion, damage cover material, harm vegetation, or spray persons at the MSWLF facility, pursuant to paragraph 113.8(2)“h”.*
- c. *Leachate shall not be applied on user vehicle access areas.*
- d. *Leachate shall not be applied to frozen waste cover. A means of frost protection must be provided for all leachate control elements.*
- e. *Leachate shall be applied evenly in the application area.*
- f. *Leachate recirculation shall be conducted only during hours of operation and when an operator is on duty.*
- g. *Leachate shall be applied in a manner such that ponding or runoff will not occur.*
- h. *Leachate recirculation shall be controlled such that not more than one foot of leachate head will be allowed to accumulate above the MSWLF unit liner.*
- i. *Records shall be maintained as to the time and quantities of leachate application/injection and be submitted with the facility Annual Leachate Control System Performance Evaluation Report (LCSPER).*
- j. *Leachate recirculation shall be immediately terminated if it causes ponding, runoff, excessive odor, vector control problems, vapor drift, ice formation, operational problems, or fluid level measurements, conducted monthly and reported annually indicate leachate levels exceeding 12 inches above the liner. The DNR's local Field office shall be immediately notified if any of the above events occur.*

There are no changes required or requested to Special Provision #11.

## **X. Special Provision #12.**

*The DNR electronic mail document (DocDNA #78905), dated December 11, 2013, and its attachments regarding the pipeline running through future phases of the landfill (northeast corner), is incorporated as part of the permit documents.*

There are no changes required or requested to Special Provision #12.

## **X. Special Provision #13.**

*The permit holder is authorized to solidify liquid wastes in accordance with the following conditions:*

- a. *The Solidification Trial Final Report, dated June 22, 2020, as submitted by Justin Franks, Assistant District Manager, Loess Hills Regional Landfill, and approved June 29, 2020, is incorporated as part of the permit documents. The trial period demonstration period of 120 days was approved on January 11, 2019. The actual demonstration period began March 5, 2020, with an anticipated end date of July 3, 2020.*
- b. *All liquid waste solidification processes shall be conducted over the composite liner constructed in Cell D. Furthermore, the solidification process shall be offset at least 75 feet from the north edge of the Cell D abutment liner. No solidification activities shall take place in the Area D closure area.*
- c. *Liquid wastes shall be unloaded in two pits excavated into the existing waste. Any wastes removed during excavation of the pits shall be properly disposed in the active area of the landfill. An additional above-ground, enclosed container may be kept near the solidification process area to store absorbent materials and keep them dry. The permit holder must direct all liquid wastes to the solidification processing area immediately upon receipt at the landfill. No liquid wastes may be stored on-site.*
- d. *The permit holder is authorized to use nonhazardous absorbent coal combustion residue (CCR) materials, wood wastes, sawdust, or similar materials as solidifying agents. Use of any other absorbents must be approved by the DNR prior to use. The liquids will be mixed with absorbent materials and mixed until the liquids have been solidified sufficiently to pass the paint filter test. No run-off of liquids, or overflowing of the containers shall occur during mixing.*

*If fly ash is used as the absorbent material, paint filter tests shall not be required if the application rate is less than 200 gallons of liquid waste per cubic yard of fly ash and visual observation of the final mixture indicates no free liquids.*

- e. *The solidified liquids shall be disposed at the working face.*
- f. *Liquid waste solidification processes shall not be conducted during significant rain events, high wind conditions, or extremely cold temperatures.*
- g. *Documentation of the following must be retained and made available for DNR review upon request:*

- 1) Liquids waste generator name,
- 2) Waste description and quantities,
- 3) Documentation that the accepted materials are nonhazardous, and
- 4) EPA Method 9095B paint filter test results, if required.

h. CCR intended to be used as an absorbent shall only be stored onsite for a maximum period of 1 week unless covered to prevent blowing dust (i.e. tarp).

i. The permit holder shall remit quarterly, the appropriate tonnage fees for all solidified liquid wastes, including both the liquid wastes (which includes solidification of on-site generation of leachate) and absorbents used to treat the wastes, on the appropriate reporting forms. The use of the absorbents in this manner constitutes treatment of waste for disposal and therefore is not a beneficial use.

j. If, at any time, the DNR or permit holder deems the project to be ineffective or otherwise unsatisfactory, the permit holder shall immediately terminate the project until otherwise notified.

Please modify Special Provision #13b to read: *All liquid waste solidification processes shall be conducted over composite liner. Furthermore, the solidification process shall be offset at least 75 feet from the outer edge of composite liner. No solidification activities shall take place in the Area D closure area.*

There are no changes required or requested to Special Provision #13.

#### **X. Special Provision #14.**

*The permit holder shall close the landfill site in accordance with the hereby approved Comment Response – Permit Amendment Application: Lateral and Vertical Expansion, dated December 22, 2022, as submitted by Weaver Consultants Group, and the following:*

- a. *The Modified Testing Program for Closure Areas A and B, dated September 9, 2011, as submitted by Barker Lemar Engineering Consultants, and approved on October 27, 2011, is incorporated as part of the permit documents.*
- b. *The Final Cover Re-Verification Landfill Closure (Areas A and B), dated June 28, 2012, as submitted by Barker Lemar Engineering Consultants, and approved on August 15, 2012, is incorporated as part of the permit documents.*
- c. *The Design Update-Closure Area D Final Cover, dated May 29, 2014, as submitted by Ayres Associates, and approved on September 15, 2015, is incorporated as part of the permit documents.*
- d. *The Final Cover Verification for Landfill Closure (Area C), dated March 30, 2016, as submitted by Barker Lemar Engineering Consultants and approved on April 21, 2016, relative to the verification of existing final cover for the 4.17 acre area, is incorporated as part of the permit documents.*

*The Final Cover Verification for Landfill Closure (Area C), dated February 25, 2020, as submitted by Barker Lemar Engineering Consultants and approved on June 29, 2020, relative to the verification of the repair the 2-foot erosion layer of the Area C cover area identified in the March 30, 2016 verification document, is incorporated as part of the permit documents.*

- e. *The Construction Observation Report - Cells G West and Area D Final Cover, dated January 13, 2020, as submitted by Barker Lemar Engineering Consultants and approved on February 13, 2020, is approved and incorporated as part of the permit documents.*
- f. *Revisions to the construction of the permitted final cover, in accordance with the Permit Modification-Final Cover Plan and Excavation Plan Revisions, dated December 2020; as prepared and submitted by Weaver Consultants Group, LLC., and approved on April 16, 2021, is incorporated as part of the permit documents. (Amendment #1)*

There are no changes required or requested to Special Provision #14.

Pursuant to the requirements outlined in Form 50, the updated Organizational Chart and the current operator's certificates are both provided in **Appendix C**, and the Proof of Financial Assurance is included in **Appendix D**.

## **2.4 NEW PERMIT AMENDMENTS REQUESTS**

The Loess Hills Regional Sanitary Landfill is submitting under separate cover a permit amendment request for an equivalent landfill liner. No other permit amendment requests are needed at this time.

## **2.5 EQUIVALENCY REVIEW REQUESTS**

The Loess Hills Regional Sanitary Landfill is submitting under separate cover a permit amendment request for an equivalent landfill liner. No other equivalency review requests are needed at this time.

## **2.6 NEW VARIANCE REQUESTS**

The Loess Hills Regional Sanitary Landfill does not have new variance requests from Iowa Administrative Code requirements to make at this time.

## **2.7 REQUIRED PLANS AND SPECIFICATIONS**

Appendices are included to address the updates as noted in Section 2 of Form 50 (included in Section 1 of this document). Updated plans, documentation, and information are found as follows:

Appendix A	Comprehensive Plan
Appendix B	Emergency Response and Remedial Action Plan (ERRAP)
Appendix C	Organizational Chart and Operator Certification
Appendix D	Proof of Financial Assurance

**LEGEND**

- MW# GROUNDWATER MONITORING WELL
- LPZ# LEACHATE PIEZOMETER

**PROJECT TITLE**  
59722 290TH ST  
MALVERN, NE  
LOESS HILLS LANDFILL

**CLIENT**  
IOWA WASTE SERVICES, LLC

**REV. DATE**

**CS CDS ENGINEERS**  
11254 GROVE STREET  
OMAHA, NE 68144  
TEL: (402) 884-6202 FAX: (402) 881-0012  
E-MAIL: 11254GROVE@AOL.COM  
DATE: 12/24/25

**SCALE**  
FEET

**NOTES:**  
1. BACKGROUND AERIAL DATED FEBRUARY 19, 2022.  
2. FEATURES MARKED AS ESTIMATED LOCATED FROM VISUAL APPROXIMATION.

# Appendix A

## Comprehensive Plan



Rasmus, Laurie &lt;laurie.rasmus@dnr.iowa.gov&gt;

## Rnd8CompPlanApprvl\_IWS

1 message

Rasmus, Laurie &lt;laurie.rasmus@dnr.iowa.gov&gt;

Tue, Feb 1, 2022 at 3:04 PM

To: rcrouch@millscoia.us, Justin Franks &lt;Justin.Franks@wasteconnections.com&gt;, Jeff Phillips &lt;JDPhillips@scsengineers.com&gt;

Cc: Jessica Montana &lt;jessica.montana@dnr.iowa.gov&gt;, Paige Alesch &lt;palesch@region12cog.org&gt;, Michael Sullivan

&lt;michael.sullivan@dnr.iowa.gov&gt;, Jennifer Wright &lt;jennifer.wright@dnr.iowa.gov&gt;, "Jolly, Becky" &lt;becky.jolly@dnr.iowa.gov&gt;



IOWA DEPARTMENT OF NATURAL RESOURCES

GOVERNOR KIM REYNOLDS

LT. GOVERNOR ADAM GREGG

DIRECTOR KAYLA LYON

February 1, 2022 - DIGITAL LETTER ONLY - VIA EMAIL

Mr. Richard Crouch & Mr. Justin Franks  
 Iowa Waste Services  
 59722 - 290th Street  
 Malvern, IA 51551

Dear Mr. Crouch &amp; Mr. Franks:

**IOWA WASTE SERVICES**  
**8<sup>th</sup> Round Solid Waste Comprehensive Plan Update**  
**NOTICE OF APPROVAL**

The above-referenced agency submitted their plan update regarding integrated solid waste programs and activities. Information was included regarding proposed activities that represent an action plan for the next five years.

The official planning area Goal Progress determination is 52.87% for Fiscal Year 2021. This figure was determined using the Base-Year Adjustment Method. Goal Progress may be recalculated annually, once new data is available and upon request by the planning area.

The planning area's tonnage fees will remain at the rate for above 50% diversion. The fee structure is outlined in the attached Tonnage Fee Distribution Fact Sheet. Questions regarding tonnage fee submittal may be directed to Becky Jolly at 515-725-8308 or [becky.jolly@dnr.iowa.gov](mailto:becky.jolly@dnr.iowa.gov).

The DNR's Financial and Business Assistance (FABA) Section has resources available to assist communities, businesses, and solid waste planning areas with programs. The webpage may be found at <http://www.iowadnr.gov/faba>. Waste reduction, pollution prevention and financial assistance are all areas of emphasis. In addition, the voluntary Environmental Management System (EMS) program provides benefits beyond waste reduction.

Should you have questions or like further information about DNR programs or this letter, please contact me at 515-474-4921 or [Laurie.Rasmus@dnr.iowa.gov](mailto:Laurie.Rasmus@dnr.iowa.gov).

Sincerely,

Laurie Rasmus  
 Land Quality Bureau, Financial and Business Assistance

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### 4 attachments

- [Tonnage Fee Distribution\\_Fact Sheet\(3\)\\_rev June 2020.pdf](#)  
433K
- [Rnd8 FY21\\_Dickinson\\_official GP\\_01-07-2022.pdf](#)  
190K
- [Rnd8 Plan Update\\_IWS\\_recv 12-21-2021.pdf](#)  
7118K
- [Rnd8Cklist\\_IWS\\_final\\_02-01-2022.pdf](#)  
399K

## BASE-YEAR ADJUSTMENT METHOD REPORT TABLE

**NAME OF PLANNING AREA:** Iowa Waste Services  
**CURRENT YEAR (CY):** FY2021, 01-07-2022  
**BASE YEAR:** FY2002, Calendar Year 1996 (Montgomery)

FACTORS	DATA	NOTES
<i>STEP 1: Basic Information</i>		
1 Base Year Residential Waste Disposal	Orig IWS	Montgomery
2 Base Year Commercial/Industrial Waste Disposal	76,737	4,819
3 Base Year Total Waste Disposal	179,052	81,556 PA is sum of BY population columns
<b>4 CY Waste Disposal</b>	<b>255,739</b>	<b>7,229</b> PA is sum of BY population columns
5 Base Year Population	99,771	12,049
% of Total Population for BY	89,34%	267,838 PA is sum of BY population columns
<b>6 CY Population</b>	<b>111,679</b>	<b>122,739 G</b> PA is sum of BY population columns
<b>7 Base Year Employment</b>	<b>39,670</b>	<b>11,908</b> PA is sum of BY population columns
<b>8 CY Employment</b>	<b>45,207</b>	<b>10,66%</b>
<b>9 Base Year Taxable Sales</b>	<b>\$931,061,945</b>	<b>\$81,188,538</b> PA is sum of BY population columns
% of Total Taxable Sales for BY	91.98%	8,02%
<b>10 CY Taxable Sales</b>	<b>\$1,380,901,036</b>	<b>J</b>
11 Base Year Consumer Price Index	178.1917	156,8500
12 CY Consumer Price Index		176.48 PA weighted by BY taxable sales% shares
<i>STEP 2: CY Taxable Sales Corrected for Inflation</i>		
13 Inflation Correction Factor		263,1507 K
14 CY Corrected Taxable Sales		0.67064 F/K
<i>STEP 3: Base Year and Current Year Ratios</i>		
15 Population Ratio (PR)		\$926,090,368 J*(F/K)
16 Employment Ratio (ER)		1.0322442 H/C
17 Taxable Sales Ratio (TR)		1.0081884 I/D
<i>STEP 4: Adjustment Factors</i>		
18 Base Year Commercial/Industrial Adjustment Factor		0.9148826 (J*F/K)/E
19 Base Year Residential Adjustment Factor		0.9968898 Average of Lines 15 & 18
<i>STEP 5: Adjusted Base Year Disposal/Tonnages</i>		
20 Base Year Adjusted Residential Waste Disposal		81,302 A * Line 19
21 Base Year Adjusted Commercial/Industrial Waste Disposal		179,116 B * Line 18
22 Base Year Adjusted Total Waste Disposal		260,419
<i>STEP 6: Goal Progress and Reduction Percentage Results</i>		
23 CY Waste Disposal (from line #4)		122,739 G
24 Maximum Allowable Disposal to Attain 25 Percent Goal		195,314 Line 22*0.75
25 Actual Tonnage Over (or Under) 25 Percent Goal		-72,575 Line 23 minus Line 24
26 Maximum Allowable Disposal to Attain 50 Percent Goal		130,209 Line 22*0.5
27 Actual Tonnage Over (or Under) 50 Percent Goal		-7,470 Line 23 minus Line 26
<b>28 CURRENT DISPOSAL REDUCTION (PERCENTAGE)</b>		<b>52.87%</b> <b>(Line 22 minus Line 23)/Line 22</b>

Planning Area (PA)	County	City	2020 Census	PA Pop. (H)	Pop. % in PA	FY2021 Non-Farm Jobs	Non-Farm Jobs in PA (I)	FY2020 Taxable Sales (J)
IWS	Mills	Emerson	403	403	100%			\$13,785,377
IWS	Mills	Glenwood	5,073	5,073	100%			\$52,975,577
IWS	Mills	Hastings	152	152	100%			\$1,167,569
IWS	Mills	Henderson	144	144	100%			
IWS	Mills	Malvern	1,046	1,046	100%			\$6,830,555
IWS	Mills	Pacific Junction	96	96	100%			\$8,763,752
IWS	Mills	Silver City	245	245	100%			\$1,145,682
IWS	Mills	zz.Unincorporated area	7,325	7,325	100%			\$2,754,319
			<b>14,484</b>	<b>14,484</b>	100%	<b>3,522</b>	<b>3,522</b>	<b>\$87,422,831</b>
IWS	Montgomery	Coburg	26	26	100%			
IWS	Montgomery	Elliott	338	338	100%			\$240,436
IWS	Montgomery	Grant	86	86	100%			
IWS	Montgomery	Red Oak	5,596	5,596	100%			\$67,668,135
IWS	Montgomery	Stanton	678	678	100%			\$5,526,525
IWS	Montgomery	Villisca	1,132	1,132	100%			\$5,928,176
IWS	Montgomery	zz.Unincorporated area	2,474	2,474	100%			\$1,091,030
			<b>10,330</b>	<b>10,330</b>	100%	<b>3,820</b>	<b>3,820</b>	<b>\$80,454,302</b>
IWS	Pottawattamie	Carson	766	766	100%			\$1,881,122
IWS	Pottawattamie	Carter Lake	3,791	3,791	100%			\$21,597,473
IWS	Pottawattamie	Council Bluffs	62,799	62,799	100%			\$1,134,253,459
IWS	Pottawattamie	Crescent	628	628	100%			\$7,424,716
IWS	Pottawattamie	Hancock	200	200	100%			\$1,347,577
IWS	Pottawattamie	Macedonia	267	267	100%			\$3,885,198
IWS	Pottawattamie	McClelland	146	146	100%			\$396,493
WCISWA	Pottawattamie	Minden	600	-	0%			NA
Harrison	Pottawattamie	Neola	918	-	0%			NA
IWS	Pottawattamie	Oakland	1,524	1,524	100%			\$11,016,213
IWS	Pottawattamie	Treynor	1,032	1,032	100%			\$3,994,974
IWS	Pottawattamie	Underwood	954	954	100%			\$8,809,155
IWS	Pottawattamie	Walnut	747	747	100%			\$6,103,932
IWS	Pottawattamie	zz.Unincorporated area	17,612	17,612	100%			\$12,313,591
			<b>91,984</b>	<b>90,466</b>	98%	<b>38,500</b>	<b>37,865</b>	<b>\$1,213,023,903</b>
				<b>115,280</b>			<b>45,207</b>	<b>\$1,380,901,036</b>
				<b>PA Pop. (H)</b>			<b>Non-Farm Jobs in PA (I)</b>	<b>FY2020 Taxable Sales (J)</b>
<b>CPI</b>	<b>(K) FY2021</b>							
	<b>263.1507</b>							
PA	Permit #	Facility	FY2021 Tons, Non Exempt	Released (non HF399) (+)	From another PA (non HF 399) (-)	Out of State (-)	Exceptional Event (-)	FY2021 PA Tons (G)
IWS	65-SDP-01-72	Loess Hills Regional Sanitary Landfill	598,868		4,245	499,818		94,805
IWS	69-SDP-01-74	Montgomery County Sanitary Landfill	-					-
IWS		Out-of-State disposal by Council Bluffs' haulers (carried over from FY2014 - most recent data set)	27,934					27,934
			<b>626,802</b>			<b>499,818</b>		<b>122,739</b>

## Appendix B

### Emergency Response and Remedial Action Plan (ERRAP)

# Emergency Response and Remedial Action Plan (ERRAP)

Loess Hills Regional Sanitary Landfill

Prepared For:  
Iowa Waste Services, LLC  
59722 290<sup>th</sup> Street  
Malvern, IA 51551

Permit No. 65-SDP-01-72P

**SCS ENGINEERS**

Project No. 27225577.00 | December 2025

1690 All State Court, Suite 100  
West Des Moines, IA 50265  
(515) 631-6160

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## Attachments

- Attachment 1 Site Plan and ERRAP Locations Map
- Attachment 2 Emergency Phone Numbers
- Attachment 3 Iowa Department of Natural Resources Guidelines for Reporting Hazardous Conditions
- Attachment 4 Directions to Hospital/Clinic
- Attachment 5 Special Populations Within Five Mile Radius

## **1.0      EMERGENCY RESPONSE AND REMEDIAL ACTION PLANS [567 IAC – 113.8(5)(455B)]**

### **113.8(5)b(1)   Facility Information**

The Iowa Waste Services, LLC owns and operates the Loess Hills Regional Sanitary Landfill (Landfill). The Landfill is located along 290<sup>th</sup> Street and is approximately one-half mile south of State Highway 34 in Mills County, Iowa. The Landfill site has been used for waste disposal since 1972. The Landfill's property is currently zoned I – Industrial.

The Landfill receives municipal solid waste (MSW) from the Iowa Waste Services' service area.

#### **113.8(5)"b"(1)1   Permitted Agency**

Iowa Waste Services, LLC

#### **113.8(5)"b"(1)2   DNR Permit Number**

65-SDP-01-72P

#### **113.8(5)"b"(1)3   Responsible Official and Contact Information**

Iowa Waste Services, LLC  
59722 290<sup>th</sup> Street  
Malvern, Iowa 51551  
Contact: Kelly Danielson, Division Landfill Manager  
Contact: Chaz Roberts, District Manager

#### **113.8(5)"b"(1)4   Certified Operator and Contact Information**

Loess Hills Regional Sanitary Landfill  
59722 290<sup>th</sup> Street  
Malvern, Iowa 51551  
Contact: Ryan Mitchell, Operations Manager

#### **113.8(5)"b"(1)5   Facility Description**

Municipal solid waste landfill

#### **113.8(5)"b"(1)6   Site and Environs Map**

See **Attachment 1** for Figure 1 - Site Plan Map and Figure 2 – ERRAP Locations Map.

#### **113.8(5)b(2)   Regulatory Requirements**

#### **113.8(5)"b"(2)1   Iowa Code Section 455B.306(6)"d" Criteria Citation**

This Emergency Response and Remedial Action Plan (ERRAP) is designed to meet the requirements of Iowa Administrative Code (IAC) 567 Chapter 113.8(5) that requires the submission of an ERRAP by all sanitary disposal projects.

This ERRAP is intended to:

- Identify possible occurrences that may endanger human health and the environment;
- Establish provisions to minimize the possibility of fire or explosion; and
- Establish provisions to minimize any releases to air, land, or water of pollutants that could threaten human health and the environment.

## **113.8(5)“b”(2)2 Reference to Provisions of the Permit**

An updated ERRAP will be submitted at the time of each permit renewal application if a review indicates that revisions are required. The ERRAP is intended to be flexible and to meet contingencies arising at the facility. Requests for changes to the ERRAP may be submitted to the Operations Manager, District Manager, or Division Landfill Manager.

## **113.8(5)b(3) Emergency Conditions, Response Activities and Remedial Action**

### **113.8(5)“b”(3)1 Failure of Utilities**

Utilities include propane, electricity, and water.

#### **Propane Gas**

##### *Propane gas Supply Failure – Short-Term and Long-Term*

In the event Landfill facilities are without propane gas supply and propane gas odor is not present, contact the following:

- Operations Manager – See **Attachment 2** for telephone and mobile numbers.
- Propane gas Company – See **Attachment 2** for telephone numbers.

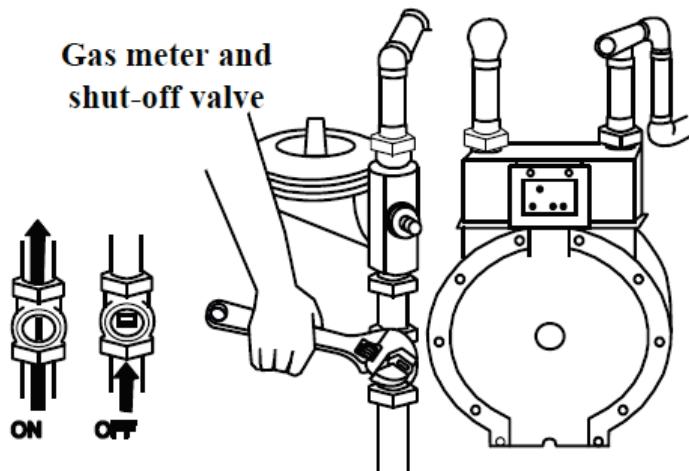
##### *Propane gas Leak*

If a gas odor is present and it is strong, take immediate action:

- Leave the building where the odor is identified. Go to the Emergency Assembly Point. If the Emergency Assembly Point location is dangerous or non-accessible, proceed to the Secondary Emergency Assembly Point (See **Attachment 1 Figure 2 – ERRAP Locations**). Account for Landfill personnel, guests, contractors, etc.

Try to shut off the propane gas by turning the shut-off valve to the horizontal position.

- DO NOT attempt to locate gas leaks.
- Open doors and windows.
- DO NOT turn on or off or unplug electrical appliances.
- DO NOT use telephones in or around the building or office.
- DO NOT position or operate vehicles or powered equipment.
- DO NOT attempt any other repairs to the propane gas systems.
- If you turn off the gas for any reason, it must be turned back on by a professional.



**Have wrench stored in a specific location where it will be immediately available**

## Electricity

### *Electricity Failure – Short-Term and Long-Term*

In case of electrical failure, the following individuals must be contacted:

- Operations Manager – See **Attachment 2** for telephone and mobile numbers.
- Electricity Supply Company – See **Attachment 2** for telephone number.

### *Scale Failure Due to Electricity Supply Failure*

Scale weights may be estimated based on vehicle size (volume of waste) and converted to tons, or historical scale weights may be used for representative loads from particular vehicles or companies. Note each load for which the weight was estimated.

## *Buildings*

Although the facility is primarily open during daylight hours, twilight and dusk operations may require supplemental light and heat if the electricity fails. Non-electrical space heaters may be used for supplemental heat; however, manufacturer's recommendations for ventilation must be observed.

- Keep portable and space heaters at least 3 feet from combustible materials.
- Electric flashlights and electric lanterns should be used for supplemental light.
- Use extreme caution if candles must be used, candles should only be used temporarily, on a limited basis until a safer form of light can be located such as flashlights, electric lanterns, etc. Candles within glass containers are preferred over those with open/exposed flame.
- Never leave a burning candle unattended. Extinguish all candles when leaving a room.
- Never use a candle for light when fueling equipment.

## Water

### *Water Failure – Short-Term and Long-Term*

In case of water failure, the following individuals must be contacted:

- Operations Manager – See **Attachment 2** for telephone and mobile numbers.

## **113.8(5)“b”(3)2 Evacuation Procedures During Emergency Conditions**

- See the ERRAP Locations Map (**Attachment 1**) for evacuation meeting locations and evacuation routes.

## **113.8(5)“b”(3)3 Weather-Related Events**

Use battery-operated radios/televisions to receive the most updated information on local conditions.

### Tornado and Wind Events

#### *Tornado Terminology*

- Tornado Watch – The weather conditions are possible for a tornado.
- Tornado Warning – A tornado has been sighted or indicated by weather radar.

#### *Tornado Watch Procedures*

- Listen to the radio or television for more information.
- Locate emergency supplies such as battery-powered radio, mobile telephone, and spare batteries.
- Be prepared to take shelter in the designated tornado shelter (see **Attachment 1**).
- If you see any revolving funnel-shaped clouds, report them immediately by telephone to your local law enforcement agency.
- If you are in a trailer or similar structure, move to a more secure structure.

#### *Tornado Warning Procedures*

- Take shelter with a battery-operated radio. Take shelter in area(s) designated as a tornado shelter or an interior room or hallway.
- The facility's Tornado Shelter Location is shown on the ERRAP Locations Map (See **Attachment 1, Figure 2**).
- If you cannot reach the Tornado Shelter, go to a crawlspace under the scales or to an inside hallway on the lowest level. Avoid places with wide-span roofs. Stay away from windows and open spaces. Get under a piece of sturdy furniture such as a workbench, heavy table, or desk and hold onto it.
- Turn on a battery-operated radio or television and wait for the “all clear” announcement by the authorities.

## *Tornado Safety – Outdoors*

- During tornado warning, Landfill staff and supervisors proceeding to a shelter by vehicle should keep an eye out for any other employees or customers along the way and pick them up for transport.
- If possible, get inside a substantial building.
- If shelter is not available or there is no time to get indoors, lie in a ditch, culvert, or low-lying area or crouch near a strong building. Use your arms to protect your head and neck. Be alert for potential flash flooding.

## *Tornado Safety – In a Vehicle*

- Never try to outrun a tornado in a vehicle. Heavy rain, hail, and traffic may impede your movement. Tornadoes can change directions quickly and can easily lift up a vehicle and toss it through the air.
- Pull to the side of the road avoiding trees, power lines, and other objects that could fall or be hazardous.
- Get out of the vehicle immediately and try to take shelter in a nearby building.
- If there is not time to get indoors, get out of the vehicle and lie in a ditch, culvert, or low-lying area away from the vehicle. Use your arms to protect your head and neck.

## *After a Tornado*

- Try to get out of damaged buildings. Once out, do not re-enter the damaged building unless necessary and use great caution.
- Extinguish all smoking and small fires.
- Monitor the radio or television for emergency information or instructions.
- Account for Landfill personnel, known guests/customers/contractors, and check on neighbors who may require special assistance.
- Check for injured victims. Render first aid if necessary. Call the necessary emergency responders such as ambulance services or fire/rescue services.
- Do not attempt to move severely injured victims unless necessary. Wait for emergency medical assistance to arrive.
- Watch out for broken glass and downed power lines.
- Report any downed power lines.
- Use the telephone only for emergency calls. Telephone lines may be down. Mobile telephone services may be used for emergency calls.
- Take photos or videotape of the damage to the property.
- If driving, be alert for hazards in the roadway.
- If unaffected by the tornado, stay out of the damaged area until allowed in by officials. Your presence may hamper emergency operations.

## *After a Tornado – Gas Leaks*

- Check for gas leaks. If you smell gas or hear a blowing or hissing noise, open a window and quickly leave the area.
- Call the Propane gas Company from a mobile telephone or a telephone away from the affected property.

#### *After a Tornado – Electrical System Damage*

- Look for electrical system damage.
- If you see sparks, broken or frayed wires, or if you smell hot insulation, turn off the electricity at the main fuse box or circuit breaker.
- If you have to step in water to get to the fuse box or circuit breaker, call an electrician first for advice.
- See **Attachment 2** for emergency contacts.

#### *After a Tornado – Sewage and Water Line Damage*

- Check for sewage and water line damage.
- If you suspect sewage lines are damaged, avoid using the toilets and call a plumber.

#### *After a Tornado – Methane Collection and Venting Systems*

- Check methane collection/venting systems.
- If the collection/venting system lines are malfunctioning, contact a professional engineer for repair assistance.
- Monitor methane gas soon after the incident to check for hazardous methane levels. Remember that methane (by itself) is an odorless gas.

#### *After a Tornado – Leachate Transportation and Leachate Storage Systems*

- Report leachate spills to the Iowa Department of Natural Resources (DNR). See **Attachment 2** for emergency contacts.

#### *After a Tornado – Bulk Fuel/Solvent Storage Systems*

- Extinguish all smoking and small flames.
- If a spill/leak exists, attempt to stop the leak/spill or absorb fuel with inert materials.
- If bulk fuel is leaking into the environment from a storage system, take immediate steps to limit flow into drainage ways by constructing an earthen berm.
- Report spills or leaks to the DNR (see **Attachment 2** for emergency contacts).

#### *Wind Storm Terminology*

- Derecho – A line of intense, widespread, and fast-moving windstorms and sometimes thunderstorms that moves across a great distance and is characterized by damaging winds.
- Down Burst – A strong out rush of wind formed by rain cooled air. Strong down bursts, which produce extensive damage, are often mistaken for tornadoes. A downburst can easily overturn a mobile home, tear roofs off houses, and topple trees.

#### *Winter Storm Terminology*

- Winter Storm Watch – Indicates that severe winter weather may affect your area.
- Winter Storm Warning – Indicates that severe winter weather conditions are definitely on the way.

- Blizzard Warning – Indicates that large amounts of falling or blowing snow and sustained winds of at least 35 miles per hour are expected for several hours.

#### *Winter Storm Procedures*

- Listen to the radio or television for more information.
- Locate emergency supplies such as battery-powered radio, mobile telephone, and spare batteries.
- Be prepared to take shelter in the designated tornado shelter (see **Attachment 1**).
- If you are in a trailer or similar structure, move to a more secure structure.
- Proceed with caution as snow can hinder vision and ice can cause vehicles and people to slide.

#### **Intense Rainstorms, Mud, and Erosion**

##### *Thunderstorm Terminology*

- Severe Thunderstorm Watch – A severe thunderstorm (damaging winds 58 miles per hour or more, or hail three-fourths of an inch in diameter or greater) is likely to develop.
- Severe Thunderstorm Warning – A severe thunderstorm has been sighted or indicated by weather radar.

##### *Thunderstorm Watch Procedures*

- Locate a safe place, such as the designated tornado shelter.
- Assign someone to listen to a battery-powered radio or television for more information.

##### *Thunderstorm Warning Procedures*

- Go to a safe place, such as the designated tornado shelter.
- Turn on a battery-operated radio or television and wait for the “all clear” by the authorities.
- Tornadoes are spawned by thunderstorms and flash flooding can occur with thunderstorms. When a “severe thunderstorm warning” is issued, review what actions to take under a “tornado warning” or a “flash flood warning.”

##### *Procedures After a Thunderstorm*

- Check personnel, guests, clients, and contractors for injuries.
- Report downed utility wires.
- Check scale for proper operation. If the electricity is out, see Section 113.8(5)“b”(3)1.
- Continue to listen to the radio for flash flood and/or tornado watches and warnings and other instructions and advice.

##### *Check Leachate Transportation and Leachate Storage Systems*

- Check leachate transportation and storage systems including tank and lines.
- If leachate is leaking into the environment, attempt to shut the leachate line valve, stopping the flow of leachate.
- Report leachate spills to the (DNR). See **Attachment 2** for Emergency Contacts.

### *Check Bulk Fuel Storage Systems*

- Extinguish all smoking and small flames.
- If a spill/leak exists, attend to stop the spill/leak or absorb fuel with inert materials.
- See **Attachment 2** for DNR Emergency Contacts.
- See **Attachment 3** for DNR guidelines for reporting hazardous conditions and a copy of Iowa Administrative Code Chapter 131 (Section 457).

### **Lightning Strikes**

There are relatively safe places from lightning strikes, however no location is free of risk. Large, enclosed structures are generally safer than small or open structures. The risk for lightning injury depends on whether the structure incorporates appropriate lightning protection.

Enclosed vehicles, fully enclosed farm vehicles, etc. with the windows rolled up generally provide good shelter from lightning. Avoid contact with metal or conducting surfaces outside or inside the vehicle.

Avoid being in or near:

- High places and open fields, isolated trees, unprotected sheds, communication towers, flagpoles, light poles, metal fences, and water.
- When inside, avoid the use of the telephone, contact with water or conductive surfaces with exposure to the outside such as metal door or window frames, electrical wiring, telephone wiring, cable TV wiring, and plumbing, etc.

### *Lightning Strike Victim*

- A person who has been struck by lightning does not carry an electrical charge that can shock other people.
- A nearby strike may also cause medical problems, check personnel and call emergency medical assistance (911) if necessary.
- Provide first aid and call emergency medical assistance (911) immediately. Look for burns where lightning entered and exited the body.

### **Flooding**

#### *Flood Terminology*

- Flash Flood Watch – A flood is possible, be alert to signs of flash flooding, and be ready to evacuate. Know the local terrain; flash floods can happen more quickly in hilly terrain or low-lying areas.
- Flash Flood Warning – A flood is already occurring and will occur soon in your area. Listen to local radio and television for local information and advice.

#### *Flood Damage Prevention Procedures*

- Move key documents, electronic files, computers, etc. to higher ground or take them with you if you must evacuate.
- Review evacuation procedures with employees.

- If necessary, attempt to build earthen dams to protect buildings and property.
- Turn on battery-operated radio or television to get the latest emergency information.
- If told to leave, do so immediately.

#### *Procedures During a Flood*

- Evacuation may be necessary. If advised to evacuate, do so immediately.
- Never drive into a flooded area.
- Never drive around road barricades.
- In case employees are separated from one another during floods or flash floods, each employee shall contact the Operations Manager so all employees can be accounted for.
- Evacuation is much simpler and safer before floodwaters become too deep for ordinary vehicles to drive through.
- Listen to a battery-operated radio or television for evacuation instructions.
- Follow recommended evacuation routes – shortcuts may be blocked.
- Leave early enough to avoid being marooned by flooded roads.

#### *Procedures During a Flood – If Outdoors*

- Climb to high ground and stay there.
- Avoid walking through any floodwaters. If it is moving swiftly, even water 6 inches deep can sweep you off your feet.

#### *Procedures During a Flood – If in a Car*

- Never drive into a flooded area.
- Never drive around road barricades.
- If you come to a flooded area, turn around and go another way.
- If your car stalls, abandon it immediately and climb to higher ground. Many deaths have resulted from attempts to move stalled vehicles.

#### *Procedures After a Flood*

- Return to the area only after it has been declared safe by local emergency management officials. Follow all emergency rules, laws, and regulations.
- Report and stay clear from loose power lines or damaged utilities.
- Report downed power lines to your utility company or local emergency manager.
- Some appliances, such as television sets, can shock you even after they have been unplugged. Do not use appliances or motors that have gotten wet unless they have been taken apart, cleaned, and dried.
- Be alert for gas leaks. Use a flashlight to inspect for damages. Do not smoke or use candles, lanterns, or open flames unless you are sure that the gas has been turned off and the area has been aired out.
- Look for fire hazards - broken or leaking gas lines, flooded electrical circuits, submerged furnaces, or electrical appliances, or flammable or explosive materials coming from upstream.
- Service damaged septic tanks, cesspools, pits, and leachate systems as soon as possible. Damaged sewage systems are health hazards.
- Document the damage for insurance purposes by taking notes and photographs.

### *Structural Stabilization: Temporary Measures*

- Identify potential deficiencies and provide temporary shoring to protect life and property while the water levels are receding. All shoring measures should be planned with the assistance of qualified structural engineers or contractors.
- Support unstable or leaning structures or features with temporary bracing and reinforcement.
- Strengthen exposed foundations or brace areas of undermining by following engineer's recommendations.
- Brace and strengthen decayed or damaged floor and ceiling structure. Check bearing locations for movement or settlement.

### *Check Methane Collection and Venting Systems*

- Check methane collection/venting systems.
- Monitor methane gas soon after the incident to check for hazardous methane levels.

### *Check Leachate Transportation and Storage Systems*

- Check leachate transportation and storage systems including tanks, lagoons, and lines.
- If leachate is leaking into the environment, attempt to shut the leachate line valve, stopping the flow.
- If leachate is leaking into the environment from a lagoon, take immediate steps to limit flow into drainage ways by constructing an earthen berm.
- Report leachate spills to the DNR (see **Attachment 2** for emergency contacts).

### *Check Bulk Fuel Systems*

- Extinguish all smoking and small flames.
- If a spill/leak exists, attend to stop the spill/leak or absorb fuel with inert materials.
- See **Attachment 2** for DNR Emergency Contacts.
- See **Attachment 3** for DNR guidelines for reporting hazardous conditions and a copy of Iowa Administrative Code Chapter 131 (Section 457).

### *Check for Large Scale Erosion*

- Immediately cover any eroded areas exposing waste.
- Identify and repair access roads, approach ramps, and internal roads that were affected by erosion.
- Identify and repair let-down structures, berms, and terraces affected by erosion.

### *Acceptance of Flood Related Wastes*

- Do not accept hazardous material for landfilling, even if it is flood related debris.
- Do not accept free flowing liquids, even if the container is thought to contain only flood-related liquid.
- Do not accept containers that contain unknown materials, especially drums and similar containers that "floated" to the current owner.

- Document all flood-related debris for possible credit/reimbursement from city, county or state government.
- Prepare a request to DNR to exempt exceptional event debris from goal progress and tonnage fee with the next Quarterly Solid Waste Fee Schedule & Retained Fees Report.

## Event and Post Event Conditions

See Sections under Section 113.8(5)“b”(3)3 Weather Related Events.

## 113.8(5)“b”(3)4 Fire and Explosions

In case of any size fire, the following individual must be contacted:

- Operations Manager – See **Attachment 2** for telephone number.

If a fire cannot be controlled by site personnel, report to the Fire Department by dialing 911 using cellular phones or the phone in the site office.

## Basic Fire Safety

- Stockpile soil near the working face to assist with hot loads.
- Site will comply with local and state fire codes, including the placement and maintenance of fire extinguishers, smoke detectors, etc.
- See the ERRAP Locations Map (**Attachment 1, Figure 2**), identify Evacuation Routes, Fire Escape Routes, and Emergency Assembly Locations.
- Keep exit routes clear and well-marked.
- Cigarette, cigar, and/or pipe smoking are not allowed indoors in public places in Iowa. Make sure smoking materials are completely extinguished before entering the building. Never leave hot ashes or burning tobacco products unattended.
- Avoid using extension cords wherever possible, especially small-wired cords used with high-wattage appliances.
- Extension cords should not be run under rugs or hooked over nails.
- If a fuse blows (or a breaker "trips"), find the cause. Remove excess appliances (lamps, stereo components, space heaters, etc.) from a breaker circuit that frequently "trips."
- Discard food that has been exposed to heat, smoke, or soot.
- Do not discard damaged goods until after an inventory has been taken.
- Give first aid where appropriate.
- Stay out of damaged buildings.
- Return to the facility only when local fire authorities say it is safe.

## Waste / Recyclable Materials

For fires at the working face, see Working Area in this section.

For fires in vehicles, see Hot Loads in this section.

For materials that may become ignited:

- Call the Fire Department. See **Attachment 2** for telephone numbers.
- Call the Operations Manager. See **Attachment 2** for telephone number.

- If materials are in the working face and can be safely removed, remove and place near but not on, the working face, and extinguish. Use extreme caution if any attempt is made to control the fire.
- For small fires located outside of the working face, a fire extinguisher may be used.

## Buildings and Site

### *Small Localized Fire – Building or Office*

- Caution: A small-localized fire can engulf a room in less than 60 seconds.
- Act quickly. Smoke can be dangerous.
- Use a fire extinguisher to extinguish the flame; aim at the base of the flame.
- Remove nearby flammable materials such as paper, drapes, rags, etc.
- Evacuate all unnecessary personnel – go to the Emergency Assembly Location. In the event the Emergency Assembly Location is dangerous or inaccessible, proceed to the Secondary Emergency Assembly Location (See **Attachment 1, Figure 2**).
- If a fire cannot be controlled by site personnel, report to the local Fire Department. See **Attachment 2** for telephone number.

### *Out of Control Fire – Building or Office*

- Get out of the building. Familiarize yourself with at least two exits from each room; for example, one window and one door.
- Go to the Emergency Assembly Location. In the event the Emergency Assembly Location is dangerous or inaccessible, proceed to the Secondary Emergency Assembly Location (See **Attachment 1, Figure 2**).
- Contact the local Fire Department from a mobile phone. See **Attachment 2** for telephone number.
- Never go back inside a building for any reason.

## Equipment

### *Engine Fires*

- Immediately turn off the ignition to shut down the fuel pump and the flow of fuel.
- Putting out an engine fire safely and efficiently takes two people. One holds the fire extinguisher and the other opens the hood. The fire will flare up as the fresh air hits it. Immediately spray the fire extinguisher across the base of the flames until the fire is out.
- It is important to get the hood open fast. If the fire burns through the hood release cable before you can get it open, there will be no way to get at the fire.
- Do not try to put out an engine fire by spraying the extinguisher through the radiator or through the wheel wells, this method will not work and will waste time and the fire extinguisher contents. Get at the base of the flames.
- If a fire cannot be controlled by site personnel, report to the local Fire Department. See **Attachment 2** for telephone number.
- The equipment will be thoroughly inspected and repaired, if necessary, prior to reuse.

## Fuels

### General Safety

- Vapors from fuels can be more flammable than liquid, always use caution when filling vehicles or containers.
- Equipment shall be refueled only at designated locations.
- In case of spillage, filler caps shall be replaced, and spillage disposed of before engines are started.
- Engines shall be stopped and operators shall not be on the equipment during refueling operations.
- Only designated persons shall conduct fueling operations.
- Smoking and open flames shall be prohibited in areas used for fueling, fuel storage, or enclosed storage of equipment containing fuel.
- Liquid fuels not handled by pump shall be handled and transported only in portable containers or equivalent means designed for that purpose. Portable containers shall be plastic, have tight closures with screw or spring covers and shall be equipped with spouts or other means to allow pouring without spilling. Leaking containers shall not be used.

### Fire Event

- If possible, turn off the pump or the nozzle distributing flammable liquid.
- Evacuate the area. Stay well clear of the above ground storage tank in case of explosion. Go to the Emergency Assembly Location (See **Attachment 1, Figure 2**).
- Call the Fire Department. See **Attachment 2** for telephone number.
- Call the Operations Manager. See **Attachment 2** for telephone number.

## Utilities

### Propane gas

- Call the Fire Department. See **Attachment 2** for telephone number.
- If the Emergency Assembly Point is a safe distance away, go to that site or go to the Secondary Emergency Assembly Point.
- Caution: Exploding tanks may eject pieces of the tank several hundred feet. These pieces can be lethal.
- The Fire Department may allow the tank to burn itself out.
- Call the Operations Manager (See **Attachment 2** for telephone and mobile phone numbers).

### Electrical – Small Localized Fires

- Use a fire extinguisher rated Class C: Energized Electrical Equipment including Wiring, Fuse Boxes, Circuit Breakers, Machinery, and Appliances.
- Caution: A small-localized fire can engulf a room in less than 60 seconds.
- Act quickly.
- Remove nearby flammable materials such as paper, drapes, rags, etc.
- Evacuate all unnecessary personnel – go to the Emergency Assembly Location. In the event the Emergency Assembly Location is dangerous or inaccessible, proceed to the Secondary Emergency Assembly Location (See **Attachment 1, Figure 2**).

## *Electrical – Larger Uncontrolled Fires*

- Get out of the building. Familiarize yourself with at least two exits from each room; for example, one window and one door.
- Go to the Emergency Assembly Location (See **Attachment 1, Figure 2**).
- Contact the Fire Department from a mobile phone. See **Attachment 2** for telephone number.
- Never go back inside a building for any reason.

## **Facilities**

See Section 113.8(5)“b”(3)4 Buildings and Site. There are no additional facilities that have not been previously covered.

## **Working Area**

Landfill fires can be started from several causes: spontaneous combustion, careless smoking, methane flash, and arson.

- Understand and be aware of warning signs.
- Always report any visible smoke to the Operations Manager.
- If in doubt about a possible fire or signs of fire call the Fire Department. See **Attachment 2** for telephone number.

## *Once a Fire is Identified*

- Control access and site security.
- All persons must be required to sign in and out.
- Establish radio communications with firefighting, public safety, and Landfill personnel.
- First aid should be available on-site.
- Warning fences should be placed around any trenches dug as fire breaks.
- Safety meetings should be held daily.
- Spotters should be used to assist equipment operators.

Controlling a landfill fire may be accomplished through local firefighting equipment, or landfill firefighting experts may need to be contacted. Follow the instructions of the firefighting professionals on site.

- Excavated waste may require a hot pad where it can be spread and soaked with water or other fire extinguishing media.
- Soaked materials may require a cool pad storage area.
- Earthmoving equipment may be required to dig firebreaks down to bare earth or to build earthen dams.

Landfill stockpile fires can be started from several causes: spontaneous combustion, careless smoking, methane flash, lightning, and arson.

- Understand and be aware of warning signs.

- Always report any visible smoke to the Operations Manager. Some steam from composting piles and some other stockpiles may be normal due to the natural decomposition process. Report unusual levels of steam to the Operations Manager.
- If in doubt about a possible fire, call the Fire Department (See **Attachment 2** for emergency telephone numbers).
- Use caution while excavating “hot” materials, exposure to the air may create flames.
- Before attempting to excavate the “hot spot” within a stockpile, a spotter should watch equipment operators.
- Move “hot” materials to a hot pad so the materials can be sprayed with water or fire extinguishing media.

Unaffected stockpile materials and soaked stockpile materials should be moved to a cool pad while the remaining materials are excavated.

## Hot Loads

*Smoldering or ignited fires in a vehicle.*

- “Hot loads” are loads of waste or vehicles that are smoking, smoldering, or are on fire. Hot loads may arrive at the facility without the driver aware of the risk.
- Do not dump hot loads on top of exposed waste of any kind.
- Do not stop a truck on fire or containing a hot load near a building.
- Quickly alert the driver and direct the truck toward a safe area.
- Call the Fire Department. See **Attachment 2** for telephone numbers.
- If the load can be dumped without harming the driver or others, dump the load in a safe area. Caution: A fire may spread quickly or “flash” as air is introduced.
- Use soil to place over smoldering or burning loads.
- Stay out of the “zone of danger,” which is the cone-shaped area directly behind a vehicle with the gas tank located in the usual position at the back. If a gas tank explodes, it sends a tremendous blast out from the rear of the vehicle. This can be lethal for 50 to 100 feet behind the vehicle.

## Waste Gases

- If you witness a flash fire potentially caused by methane, leave the area immediately. If the Emergency Assembly Location is a safe distance away, go to that site or go to the Secondary Emergency Assembly Location.
- See the ERRAP Locations Map (**Attachment 1, Figure 2**) with Evacuation Routes, Fire Escape Routes, and Emergency Assembly Locations.
- Call the Fire Department. See **Attachment 2** for telephone numbers.
- Contact the Operations Manager. See **Attachment 2** for telephone numbers.

## Explosive Devices

- Use the alarm system and leave the area immediately. If the Emergency Assembly Point is a safe distance away, go to that site or go to the Secondary Emergency Assembly Point.
- See the ERRAP Locations Map (**Attachment 1, Figure 2**) with Evacuation Routes, Fire Escape Routes, and Emergency Assembly Locations.
- Call the Fire Department. See **Attachment 2** for telephone numbers.

- Contact the Operations Manager. See **Attachment 2** for telephone numbers.

## **113.8(5)“b”(3)5    Regulated Waste Spills and Releases**

### **Waste Spills and Releases Terminology**

- Regulated Waste – Generally includes non-hazardous material such as leachate, municipal solid waste, and petroleum contaminated soils.
- Spill – A spill primarily involves liquids or solids that are deposited accidentally on the facility’s property in an incorrect location but remain within the facility’s property boundary. Spills include quantities of 100 gallons or less, or two tons or less.
- Release – A release may involve spills of solids or liquids greater than 100 gallons or greater than two tons that enter lagoons, sedimentation ponds, drainage ways, etc., but stay on-site.
- Off-site Release – An off-site release is a release or spill that leaves the facility’s property boundary. This section includes groundwater releases.

### **Waste Materials**

#### *Waste Materials Terminology*

- Waste Materials – Waste materials are materials normally accepted at a landfill. Waste materials are also regulated wastes.
- On-Site Spill or Release – Use caution and remove the waste, placing it in an acceptable location, such as the working face, for proper disposal.
- Off-Site Spill or Release – If waste materials are identified beyond the property and/or waste materials are observed to be in a waterway, see Section 113.9(5)“b”(3)5.

### **Leachate**

#### *Lagoons*

Leachate should not overflow the rim of the lined leachate collection lagoon or leak from a puncture or tear. If leachate should be observed overflowing or leaking from the leachate lagoon, actions should be taken to pump leachate into a tanker truck or other vehicle for transport to a Publicly Owned Treatment Works (POTW).

Generally, the leachate must be sampled and tested before the POTW will accept the material. Sampling and testing may take 24 to 72 hours or more.

- Contact the Operations Manager (See **Attachment 2** for telephone and mobile phone numbers).
- Call the State of Iowa (See **Attachment 2** for telephone numbers).

#### *Drainage Systems*

- Leachate should not overflow into a non-leachate designated drainage system from a seep or other event such as overflow from a leachate lagoon.
- If leachate is observed overflowing into a drainage system actions should be taken to stop the flow of leachate.
- Earthen dams could be constructed to divert the leachate.

- Contact the Operations Manager (See **Attachment 2** for telephone and mobile phone numbers).

#### *Tanker Spills/Seeps/Miscellaneous Spills*

Leachate from seeps and spills should not be allowed to flow beyond the Landfill property boundary and should not be allowed to enter a creek, river, or stream.

Leachate flows from seeps can often be temporarily diverted if the seep is excavated and recompacted.

Small leachate spills from tankers or other sources should be observed so they do not leave the property boundary. Absorbent materials, such as yard waste or compost, could be placed on the spill to minimize tracking.

#### **Waste Gases**

Methane gas is a by-product of waste decomposition and can be explosive in specific concentrations. Methane gas is colorless and odorless; odor emanates from other gases mixed with the methane.

- Methane gas can migrate and accumulate in enclosed buildings, under scales, crawl spaces, and other confined spaces.
- Methane gas concentration levels are often detected using an electronic meter.

If methane gas is detected within explosive limits:

- Extinguish all smoking.
- Attempt to ventilate the area by opening windows/doors.
- If the methane is detected in a scale house or other building regularly occupied, evacuate immediately and go to the Emergency Assembly Point (See **Attachment 1, Figure 2**).
- Contact the Operations Manager (See **Attachment 2** for telephone and mobile phone numbers).
- Contact the Fire Department (See **Attachment 2** for telephone and mobile phone numbers).
- Contact the DNR Field Office (See **Attachment 2** for telephone and mobile phone numbers).
- Do not return to the building until it has been properly ventilated and the concentrations have been checked with an electronic meter.

#### **Waste Stockpiles and Storage Facilities**

This site does not have waste stockpiles or waste storage facilities.

#### **Waste Transport Systems**

This site does not have waste transport systems.

#### **Litter and Airborne Particulate**

Litter and airborne particulates will be controlled according to the sanitary disposal project permit.

## Site Drainage System

If drainage systems are observed to be functioning improperly, contact the Operations Manager. See **Attachment 2** for telephone number.

*Flood or Heavy Rain/Wet Situations:*

- If regulated wastes enter drainage systems, use great caution removing the wastes – flowing water can have extreme force.
- Wet weather can cause embankments to become weakened and fail.

*Non-Flood and Non-Heavy Rain/Wet Situations:*

- Prevent the waste from washing away beyond the property boundary.
- Remove the wastes as soon as possible.

## Off-Site Releases

*Leachate*

Leachate must be kept from entering creeks, rivers, streams, or other waterways. Leachate should not be allowed to leave the property boundaries.

If leachate is observed leaving the property boundary and/or entering a creek, river, stream, or other waterway, immediately contact the following:

- Contact the Operations Manager. See **Attachment 2** for telephone number.
- Contact the State of Iowa. See **Attachment 2** for telephone numbers.

Earthen dams, excavation, compaction, and other techniques can be applied to stop the flow of leachate from leaving the property boundary or traveling further from the property boundary.

Permanent drainage systems can be installed after the leachate flow has been diverted or stopped if a lagoon and leachate collection system is available.

*Waste Gases*

- If waste gases are detected outside of the property boundary, contact the Operations Manager.
- A second check of gas concentration levels with newly calibrated equipment may be required.
- If waste gases are detected a second time outside of the property boundary, then contact the DNR immediately (See **Attachment 2** for telephone numbers).

*Regulated Waste*

- Prevent the waste from traveling further off site. Earthen dams, excavation, compaction, and other techniques can be applied to stop the flow of regulated waste from traveling further from the property boundary.

- If the regulated waste is in a waterway, attempt to stop the flow of waste and if possible, stop the flow of waste downstream. Use caution working near steep banks or wet embankments.
- Contact the Operations Manager. See **Attachment 2** for telephone number.
- Contact the State of Iowa. See **Attachment 2** for telephone numbers.

### **113.8(5)“b”(3)6 Hazardous Material Spills and Releases**

- See **Attachment 3** for State Guidelines for Reporting Hazardous Conditions.
- Do not smoke. Do not create sparks.
- Be aware of the wind and avoid inhaling hazardous fumes.
- Use caution operating near hazardous materials. The material should be considered hazardous, even if the suspected material has not yet been confirmed hazardous by a professional.
- Do not let people or equipment make contact with liquids, dusts, or fumes of hazardous materials.
- Only trained professionals should attempt to clean up the hazardous materials.
- Do not come into contact with the hazardous material.
- Some hazardous materials can react violently with other chemicals and other materials - use extreme caution.

#### **Load-Check Control Points**

Load checking is performed periodically by landfills to identify banned materials, hazardous materials, and wastes that may have been generated from areas outside the solid waste planning boundaries.

If a solid waste load is identified as containing hazardous materials or hazardous markings on containers are identified, contact the following:

- See **Attachment 3** for reporting hazardous conditions to the State of Iowa.
- Operations Manager - See **Attachment 2** for telephone numbers.
- Observe the safety precautions outlined in Section 113.8(5)“b”(3)6 Hazardous Material Spill & Releases.

#### **Mixed Waste Deliveries**

See Section 113.8(5)“b”(3)6 Load-Check Control Points, above.

#### **Fuels**

Fuels and oils that are spilled can be absorbed with specific material designed for this purpose – they are often called “snakes,” “booms,” or “pillows.” These materials, after use, are moved in drums to a used oil containment area until suitable transport to an off-site disposal location can be arranged.

If a fuel/oil spill occurs:

- Stop the flow of material if possible using valves or switches.
- Do not smoke.

- Do not pass vehicles over the spilled material, as these could be a spark/ignition source hazard.
- If possible, construct an earthen dam or similar structure to contain the spill.

## Waste Gases

- If waste gases are detected outside of the property boundary, contact the Operations Manager. See **Attachment 2** for telephone numbers.
- A second check of gas concentration levels with newly calibrated equipment may be required.
- If waste gases are detected a second time outside of the property boundary, then contact the DNR immediately. See **Attachment 2** for telephone numbers.
- If waste gases are detected indoors, ventilate and evacuate the area.

## Site Drainage Systems

This generally occurs during flood or heavy rain/flash flood situations.

*If hazardous wastes enter drainage systems during flood/heavy rain/wet conditions:*

- Contact 911.
- Contact the Operations Manager – See **Attachment 2** for telephone numbers.
- Contact the State of Iowa – See **Attachment 2** for telephone numbers.
- Emergency/Hazardous Material professionals will aid minimize the risk downstream.

*If hazardous wastes enter drainage systems during non-flood/heavy rain/wet conditions:*

- Prevent the waste from washing beyond the property boundary.
- Get assistance before attempting to remove the wastes.
- Assistance should be obtained from trained professionals.

## Off-Site Releases

- Contact 911.
- If possible, construct an earthen dam or similar structure to reduce the spread of contamination. Do not contact the material, contaminated dust, fumes, or gases.
- Should a spill leave the property, staff will notify a hazardous material professional. The trained hazardous material professional will supply needed resources and take charge of the response effort.

*In case of an off-site release, the following individuals must be contacted:*

- Operations Manager - See **Attachment 2** for telephone and mobile phone numbers.
- Contact the State of Iowa - See **Attachment 2** for telephone numbers.
- See **Attachment 3** for reporting hazardous conditions to the State.

## Biohazardous Releases

Biohazardous compounds and agents, such as anthrax, can cause symptoms in workers, contractors, drivers, etc. through inhalation, direct skin contact, or ingestion of spores, viruses, bacteria, etc.

If a suspicious package is identified within the service area AND the presence of anthrax or other biohazardous agents is suspected by local health and enforcement authorities, solid waste managers should:

- Suspend solid waste and recycling operations from the buildings under investigation until authorities make a final determination.
- Take necessary precautions depending on that determination.

If suspicious materials are observed, contact the Operations Manager (see **Attachment 2**).

## Asbestos Inhalation Hazard

Asbestos fibers can cause symptoms in workers, contractors, drivers, etc. through inhalation.

- If asbestos exposure is suspected, contact the Operations Manager (see **Attachment 2**).

Management staff may be required to contact an outside contractor specializing in asbestos removal.

## 113.8(5)“b”(3)7    **Mass Movement of Land and Waste**

### Earthquakes

#### *During an Earthquake*

- Duck, cover, and hold. If you are inside, crawl under a heavy piece of furniture and hold on or get under a doorframe.
- If you are outside, stay in an open area.
- If you are in your car or equipment, stop driving.

#### *After an Earthquake*

- Check for injuries.
- Get out of the building if it appears to be structurally unsound – do not re-enter the building. If the building is evacuated, go to the Emergency Assembly Point and account for Landfill personnel, contractors, guests, etc.
- Listen to a battery powered radio for further instructions.
- Be aware of broken glass and other sharp objects on the floor.
- Be aware of material above your head that might fall.
- Check water, propane gas, and electric lines for damage (propane gas odor) then see **Attachment 2** for information on utilities.
- Check leachate lagoons for leaks.
- Check stability of stockpiles and slopes. See Section 3.8.1.
- Check methane collection/venting systems.

- Do not use matches or smoke.
- Avoid the telephone.
- Do not go sightseeing.
- Expect aftershocks.
- Have the scale checked and re-certified by a qualified technician.

In case of earthquake, the following individuals must be contacted:

- Operations Manager – See **Attachment 2** for telephone and mobile phone numbers.

*Check Fuel/Solvent Storage Systems* Extinguish all smoking and small flames.

- If a spill/leak exists, attempt to stop the leak/spill or absorb fuel/solvent with inert materials.
- If bulk fuel or solvent is leaking into the environment from a storage system, take immediate steps to limit flow into drainage ways by constructing an earthen dam.
- Report spills or leaks to the DNR. See **Attachment 2** for emergency contacts.

## Slope Failure

Several dangers exist with slope failures including: exposing waste, leachate, bacteria, and other materials to the environment, allowing wastes to leave the site property, allowing wastes to enter wetlands or other regulated environments, and allowing wastes to overrun roads and buildings.

- Perform a head count of employees, contractors, and guests.
- Stay away from other nearby areas that may also be at risk.

Contact the following:

- Operations Manager – See **Attachment 2** for telephone numbers.
- Call 911 if there are any injuries or if someone may be buried under the failed slope.

## Waste Shifts

- Because of the instability of some stockpiles such as compost, some soils, and yard waste, the stockpile face should never be allowed to get higher than 15-20 feet. Borrow pits should also be constructed to ensure side slope stability.
- A professional engineer should be consulted to control side slope and stability.
- Use caution when excavating the “toe” of stockpile. Removing too much material may destabilize the upper portion of stockpile causing it to “slide” or fall down.
- In case of any stockpile slide, the following individuals/companies must be contacted: Operations Manager – See **Attachment 2** for telephone and mobile phone numbers.
- The DNR should be contacted for large slope failures when waste is exposed or if waste leaves the property boundary.

## Waste Subsidence

Settling of large or small areas of the Landfill is a natural occurrence; however, sudden settling may cause changes in slope stability.

Waste subsidence is generally gradual. If a large sinkhole or other large depression is created from subsidence, stay away from the area as additional subsidence may occur.

Large depressions or holes should be reported to the Operations Manager.

### **113.8(5)“b”(3)8      Emergency and Release Notification and Reporting**

Emergency reporting and notifications will be provided as needed by state, federal, and local authorities.

#### **Federal Agencies**

See **Attachment 2** for Emergency Contacts.

#### **State Agencies**

See **Attachment 2** for Emergency Contacts.

See **Attachment 3** for Reporting Hazardous Conditions.

#### **County and City Agencies Including Emergency Management Services**

See **Attachment 2** for Emergency Contacts.

#### **News Media**

See **Attachment 2** for Emergency Contacts.

#### **Public and Private Facilities with Special Populations within Five Miles**

See **Attachment 2** for a list of facilities and phone numbers.

#### **Reporting Requirements and Forms**

Emergency reporting requirements and forms will be provided as needed by the state, federal, and local authorities.

### **113.8(5)“b”(3)9      Emergency Waste Management Procedures**

#### **Communications**

Communication between Landfill staff and any emergency personnel will be at the direction of the Operations Manager if possible. The Operations Manager will also advise emergency personnel of factors that may influence the evacuation efforts or response procedures.

The following systems of communication may be used in an emergency.

- A telephone is available at the scale house.
- Cellular/digital telephones are not provided by the facility; however, personal cellular/digital telephones may be available.
- Two-way radios are available at some facilities.

- Honking horns can be used to indicate an emergency.
- Personal communication can also be used to communicate an emergency situation.

## Alarm System

- The employer shall establish and educate employees regarding any proposed alarm system.
- An air horn or an automobile horn can be used to alert employees about a dangerous situation.
- Two-way or C.B. radios can be used to alert employees regarding a dangerous situation.
- If possible, person-to-person contact can be used to alert landfill guests, contractors, employees, etc. regarding the dangerous situation.

## Temporary Discontinuation of Services – Short-Term and Long-Term

- If telephone service is discontinued, cellular or digital telephones can be used.
- The Operations Manager can dispatch messengers to deliver emergency messages in case of a discontinuation of normal communication systems.
- If the facility's transportation, processing, or landfilling services must be discontinued, the Operations Manager will contact member municipalities, county governments, and hauling companies as soon as possible to communicate rerouting instructions.

## Facilities Access and Rerouting

- The Operations Manager will facilitate emergency rerouting.
- If access to the facility is blocked, telephone, radio, and person to person contact at the Landfill will be used to communicate new directions and rerouting.
- The Operations Manager will contact alternate disposal sites and arrange for disposal. After the emergency, normal disposal or transportation systems should resume as soon as possible.

## Waste Acceptance

- The Operations Manager will contact alternate disposal sites and arrange for disposal if needed.
- After the emergency, normal disposal or transportation systems should resume as soon as possible.
- If wastes must be diverted for more than one day, contact the DNR; see **Attachment 2** for telephone numbers.

## Waste in Process

- During an emergency, safety of human life is a priority.
- Wastes being tipped, processed, or handled must be left in place until the threat to human life is greatly reduced.
- If an emergency does not threaten human life, the Operations Manager will decide how best to manage wastes in process depending on the emergency circumstances.
- When the threat to human life is reduced, the waste should be processed according to the facility's permit.

## **113.8(5)“b”(3)10 Primary Emergency Equipment Inventory**

### **Major Equipment**

Heavy equipment and private vehicles are available onsite for use in emergencies.

### **Fire Hydrants and Water Sources**

Fire hydrants and water sources, if available, are located on the ERRAP Locations Map (See **Attachment 1, Figure 2**).

### **Off-Site Equipment Resources**

The facility may contact other municipal and county governments to borrow machinery until replacements can be acquired.

## **113.8(5)“b”(3)11 Emergency Aid**

A commercial first-aid kit will be maintained at the Landfill office. The Operations Manager or the staff will administer minor first-aid treatment when required. Serious injuries will be handled through 911 Emergency Services (See **Attachment 2**).

- In case of accidents occurring outside normal operating hours, it will be the responsibility of the senior staff person to provide first-aid treatment and to arrange for professional assistance if required.
- Call 911, professional emergency aid workers should be notified for injuries needing immediate first aid care.
- See **Attachment 2** for Emergency Contacts.
- Operations Manager should be notified of any injury (See **Attachment 2** for Emergency Contacts).

### **Responder Contacts**

- Contact local 911 Emergency Services – See **Attachment 2** for telephone numbers.
- Contact the Operations Manager if any injury occurs – see **Attachment 2** for telephone numbers.

### **Medical Services**

- Contact 911 before transporting sick or injured individuals in a personal vehicle or non-emergency vehicle.
- Directions to the Hospital are located in **Attachment 4**.

### **Contracts and Agreements**

- The facility does not have any contracts or agreements for emergency aid.
- 911 service is provided to county businesses and businesses of incorporated cities.

## **113.8(5)“b”(3)12   ERRAP Training Requirements**

During the first year, after the plan is approved by the DNR, existing and new employees will review the contents of the approved ERRAP with the training provider.

The Operations Manager should identify hazardous waste contractors that can service the facility in case hazardous materials are accidentally received.

### **Training Providers**

The Operations Manager will serve as the training provider, will review the ERRAP with existing and new employees, and will provide any additional training required fulfilling the roles outlined in the ERRAP.

### **Employee Orientation**

New employees are required to review the ERRAP and become familiar with the contents of ERRAP. **Attachment 2** (Emergency Contacts) will be provided to each employee.

### **Annual Training Updates**

The Operations Manager will provide an annual review of the ERRAP with new and existing employees once per year. New information will be reviewed at that time.

### **Training Completion and Record Keeping**

Records of annual employee ERRAP training will be kept on file at the facility's offices.

## Attachment 1

Figure 1: Site Plan Map

Figure 2: ERRAP Locations Map

Emergency Evacuation Routes  
Fire Escape Routes  
Tornado Shelter  
Emergency Assembly Point  
Secondary Emergency Assembly Point

**LEGEND**

- MW# GROUNDWATER MONITORING WELL
- LPZ# LEACHATE PIEZOMETER

**PROJECT TITLE**  
59722 290TH ST  
MALVERN, NE  
LOESS HILLS LANDFILL

**CLIENT**  
IOWA WASTE SERVICES, LLC

**REV DATE**

**CS CDS ENGINEERS**  
11254 GROVE STREET  
OMAHA, NE 68144  
TEL: (402) 884-6202 FAX: (402) 881-0012  
E-MAIL: 11254GROVE@AOL.COM  
DATE: 12/24/25

**NOTES:**  
1. BACKGROUND AERIAL DATED FEBRUARY 19, 2022.  
2. FEATURES MARKED AS ESTIMATED LOCATED FROM VISUAL APPROXIMATION.

**SCALE**  
0 500 1000 FEET

**SCS ENGINEERS**  
IOWA WASTE SERVICES, LLC  
ERAPP SITE MAP  
SHEET 1 OF 1  
59722 290TH STREET  
MALVERN, IA 51551  
PROGRESS HILLS REGIONAL SANITARY  
LANDFILL  
MALVERN IA  
1600 ALL SITE COURT, SUITE 100  
WEST DES MOINES, IA 50266  
PPG (019) 631-6160  
FAX (019) 631-6161  
DATE: 11/25/25  
TIME: 10:00 AM  
CADD FILE  
TIAKE SURVEYING  
SCS

**SCALE**  
0 60 120 FEET

**LEGEND**

- - - APPROXIMATE PROPERTY BOUNDARY
- BUILDING/STRUCTURE
- == = GRAVEL ROAD
- == == PAVED ROAD
- EMERGENCY EVACUATION ROUTE

**NOTES:**  
1. SITE FEATURES ARE FROM ELECTRONIC FILES  
PROVIDED BY EVORA CONSULTING

**SECONDARY EMERGENCY ASSEMBLY POINT (FOLLOW ROAD NORTH)**

**PRIMARY EMERGENCY ASSEMBLY POINT**

**SCALES**

**SCALE HOUSE**

**TORNADO SHELTERS**

**SHOP**

## Attachment 2

### Emergency Phone Numbers

Telephone Locations  
Fire  
Medical  
Landfill Management Notification  
Media  
State of Iowa  
EPA  
Utilities

## EMERGENCY PHONE NUMBERS

### Loess Hills Regional Sanitary Landfill

#### TELEPHONE LOCATIONS:

Location of Nearest Telephones ..... Scale House/Office

#### FIRE:

Fire Department / Rescue ..... 911

#### MEDICAL / DOCTOR:

Ambulance ..... 911

Hospital: Montgomery County Memorial Hospital ..... (712) 623-7000

Estimated Drive Time ..... 29 minutes (23.3 mi)

Directions to Hospital ..... Route Directions: See **Attachment 4**

#### LANDFILL MANAGEMENT - NOTIFICATION LIST:

Kelly Danielson, Division Landfill Manager ..... (402) 641-8239

Chaz Roberts, District Manager ..... (937) 407-8098

Ryan Mitchell, Operations Manager ..... (712) 624-8039

#### COUNTY EMERGENCY MANAGER :

Mills County Emergency Management

Travis Hitchcock, Director ..... (712) 527-3643

#### MEDIA:

##### Television

KCCI – Des Moines ..... (515) 247-8844

WOI/KCWI – Des Moines ..... (515) 457-1026

WHO – Des Moines ..... (515) 242-3500

WOWT – Omaha ..... (402) 346-6666

**Radio**

KJAN – AM 1220 .....(712) 243-3920  
KJAN – FM 101.1 .....(712) 243-3920  
KSOM – FM 96.5 .....(712) 243-6885  
KS – FM 95.7 .....(712) 243-6885  
KCSI – FM 95.3 .....(712) 623-2584  
KOAK – AM 1080 .....(712) 623-2584

**STATE OF IOWA:**

DNR Water Quality Bureau ..... (515) 725-8200  
Environmental Protection Division..... (913) 551-7003  
DNR Field Office 4 in Atlantic, Iowa ..... (712) 243-1934  
Iowa Emergency Management Division ..... (515) 725-3231  
DNR Spill Response .....(515) 725-8694 24-hour

**EPA:**

Region 7 .....(800) 223-0425  
\*Spill/Release (24-hour).....(913) 551-7003

**UTILITIES:**

Telephone (Western Iowa Networks) .....(800) 777-9594  
Electricity (MidAmerican Energy) .....(800) 427-5632  
One Call (prior to digging).....(800) 292-8989  
Propane gas (New Co-Op) .....(712) 624-8624  
Water: Onsite wells (non-potable); bottled (potable)

**ENGINEER OF RECORD:**

SCS Engineers.....(515) 631-6160

Attachment 3

Iowa Department of Natural Resources

Guidelines for Reporting Hazardous Conditions

Including Iowa Administrative Code Chapter 131  
“Notification of Hazardous Conditions”



## IOWA DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL SERVICES DIVISION

FIELD SERVICES & COMPLIANCE BUREAU

# Iowa Administrative Code Chapter 131

## Notification of Hazardous Conditions

24 hour number for release reporting  
515/725-8694

### Summary of Key Points and Definitions

#### Definitions

*“Hazardous Condition”* means any situation involving the actual, imminent or probable spillage, leakage, or release of a hazardous substance onto the land, into a water of the state or into the atmosphere which, because of quantity, strength and toxicity of the hazardous substance, its mobility in the environment and its persistence, creates an immediate or potential danger to the public health or safety or to the environment.

*“Hazardous Substance”* means any substance or mixture of substance that presents a danger to the public health or safety and includes, but is not limited to, a substance that is toxic, corrosive, or flammable, or that is an irritant or that, in confinement, generates pressure through decomposition, heat, or other means. The following are examples of substances which, in sufficient quantity, may be hazardous: acids; alkalis; explosives; fertilizers; heavy metals such as chromium, arsenic, mercury, lead, and cadmium; industrial chemicals; paint thinners; paints; pesticides; petroleum products; poisons; radioactive materials; sludges; and organic solvents. “Hazardous substances” may include any hazardous waste identified or listed by the administrator of the United States Environmental Protection Agency under the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976, or any toxic pollutant listed under Section 307 of the federal Water Pollution Control Act as amended to January 1, 1977, or any hazardous substance designated under Section 311 of the federal Water Pollution Control Act as amended to January 1, 1977, or any hazardous material designated by the secretary of transportation under the Hazardous Materials Transportation Act (49 CFR 172.101)

#### Key Points

**Who is Required to Report Hazardous Conditions.** Any person manufacturing, storing, handling, transporting, or disposing of a hazardous substance shall notify the department at (515) 725-8694 and the local police department or the office of the sheriff of the affected county of the occurrence of a hazardous condition as soon as possible but not later than six hours after the onset of the hazardous condition or the discovery of the hazardous condition. A sheriff or police chief who has been notified of a hazardous condition shall immediately notify the department. Reports made pursuant to this rule shall be confirmed in writing as provided in 131.2(2).

**Reporting Subsequent Findings.** All subsequent finding and laboratory results should be reported and submitted in writing to the department as soon as they become available.

Reminder ~ VERBAL REPORTS ARE REQUIRED WITHIN 6 HOURS OF  
INCIDENCE OCCURRENCE OR DISCOVERY.

REV. 5/2024



## IOWA DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL SERVICES DIVISION

FIELD SERVICES & COMPLIANCE BUREAU

# Guidelines for Reporting Hazardous Conditions

## Verbal Reporting

24 hour number for release reporting  
515/725-8694

Report the Condition if:

- The hazardous substance has the potential to leave the property by run-off, sewers, tile lines, culverts, drains, utility lines, or some other conduit, or,
- The hazardous substance has the potential to reach a water of the state – either surface water or groundwater or,
- The hazardous substance can be detected in the air at the boundaries of the facility property by the senses (sight and smell) or by monitoring equipment or,
- There is a potential threat to the public health and safety or,
- Local officials (Fire department, law enforcement, Hazmat, public health, and emergency management) respond to the incident or,
- The release exceeds a Federal Reportable Quantity (RQ).

### ~ If in Doubt, Report It ~

IDNR REQUIRES VERBAL REPORTS WITHIN 6 HOURS OF  
INCIDENCE OCCURRENCE OR DISCOVERY

- It is recommended that all spills be cleaned up although a particular spill may not be reportable. A series of small spills over time can result in one big cleanup.
- Department rules stress the immediate or potential danger that a spill may cause.
- A written report of the Hazardous Condition is required within 30 days of the verbal notification.

*In general, Iowa reporting requirements are more stringent than Federal reporting requirements. However, the **time limit** for reporting at the Federal level is more immediate.*



## IOWA DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL SERVICES DIVISION  
FIELD SERVICES & COMPLIANCE BUREAU

# Guidelines for Reporting Hazardous Conditions

## Written Report Requirements

24 hour number for release reporting  
515/725-8694

The Iowa Department of Natural Resources  
Requires a written report of any Hazardous Condition.  
(VERBAL REPORT REQUIRED WITHIN 6 HOURS)

**Written Report.** The written report of such a hazardous condition shall be submitted to the department within 30 days and contain the following information:

- a. The exact location of the hazardous condition.
- b. The time and date of onset or discovery of the hazardous condition.
- c. The name of the material, the manufacturer's name, and the volume of each material involved in the hazardous condition in addition to contaminants within the material if they by themselves could cause a hazardous condition.
- d. The medium (land, water, or air) in which the hazardous condition occurred or exists.
- e. The name, address, and telephone number of the party responsible for the hazardous condition.
- f. The time and date of the verbal report to the department of the hazardous condition.
- g. The weather conditions at the time of the hazardous condition onset of discovery.
- h. The name, mailing address, and telephone number of the person reporting the hazardous condition.
- i. The name and telephone of the person closest to the scene of the hazardous condition who can be contacted for further information and action.
- j. Any other information, such as the circumstances leading to the hazardous condition, visible effects, and containment measures taken that may assist in the proper evaluation by the department.

The written report should include the IDNR Spill Number (assigned at the time of the verbal report) and be addressed to the duty officer responding to the spill. Reports can be sent via mail, fax, or electronic mail to the addresses listed below.

Mail	Fax	E-Mail
Iowa DNR Field Services Emergency Response 6200 Park Ave. Ste 200 Des Moines, IA 50321	515/725-8201	<a href="mailto:Emergency_Response@dnr.iowa.gov">Emergency_Response@dnr.iowa.gov</a>

**CHAPTER 131**  
**NOTIFICATION OF HAZARDOUS CONDITIONS**

[Prior to 7/1/83, DEQ Ch 41]  
[Prior to 12/3/86, Water, Air and Waste Management[900]]

Chapter rescission date pursuant to Iowa Code section 17A.7: 1/1/28

**567—131.1(455B) Definitions.** For purposes of this chapter:

“*Corrosive*” means causing or producing visible destruction or irreversible alterations in human skin tissue at the site of contact, or in the case of leakage of a hazardous substance from its packaging, causing or producing a severe destruction or erosion of other materials through chemical processes.

“*Department*” means the department of natural resources.

“*Hazardous condition*” means any situation involving the actual, imminent or probable spillage, leakage, or release of a hazardous substance onto the land, into a water of the state or into the atmosphere which, because of the quantity, strength and toxicity of the hazardous substance, its mobility in the environment and its persistence, creates an immediate or potential danger to the public health or safety or to the environment.

“*Hazardous substance*” means any substance or mixture of substances that presents a danger to the public health or safety and includes, but is not limited to, a substance that is toxic, corrosive, or flammable, or that is an irritant or that, in confinement, generates pressure through decomposition, heat, or other means. The following are examples of substances which, in sufficient quantity, may be hazardous: acids; alkalis; explosives; fertilizers; heavy metals such as chromium, arsenic, mercury, lead and cadmium; industrial chemicals; paint thinners; paints; pesticides; petroleum products; poisons; radioactive materials; sludges; and organic solvents. “*Hazardous substances*” may include any hazardous waste identified or listed by the administrator of the United States Environmental Protection Agency under the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976, or any toxic pollutant listed under Section 307 of the federal Water Pollution Control Act as amended to January 1, 1977, or any hazardous substance designated under Section 311 of the federal Water Pollution Control Act as amended to January 1, 1977, or any hazardous material designated by the secretary of transportation under the Hazardous Materials Transportation Act (49 CFR §172.101).

“*Irritant*” means a substance causing or producing dangerous or intensely irritating fumes upon contact with fire or when exposed to air.

“*Toxic*” means causing or producing a dangerous physiological, anatomic or biochemical change in a biological system.

**567—131.2(455B) Report of hazardous conditions.** Any person manufacturing, storing, handling, transporting, or disposing of a hazardous substance shall notify the department at (515)281-8694 and the local police department or the office of the sheriff of the affected county of the occurrence of a hazardous condition as soon as possible but not later than six hours after the onset of the hazardous condition or discovery of the hazardous condition. A sheriff or police chief who has been notified of a hazardous condition shall immediately notify the department. Reports made pursuant to this rule shall be confirmed in writing as provided in 131.2(2).

**131.2(1) *Verbal report.*** The verbal report of such a hazardous condition should provide information on as many items listed in 131.2(2) as available data will allow.

**131.2(2) *Written report.*** The written report of such a hazardous condition shall be submitted to the department within 30 days and contain the following information:

- a. The exact location of the hazardous condition.
- b. The time and date of onset or discovery of the hazardous condition.
- c. The name of the material, the manufacturer’s name and the volume of each material involved in the hazardous condition in addition to contaminants within the material if they by themselves could cause a hazardous condition.
- d. The medium (land, water or air) in which the hazardous condition occurred or exists.
- e. The name, address and telephone number of the party responsible for the hazardous condition.

- f.* The time and date of the verbal report to the department of the hazardous condition.
- g.* The weather conditions at the time of the hazardous condition onset or discovery.
- h.* The name, mailing address and telephone number of the person reporting the hazardous condition.
- i.* The name and telephone number of the person closest to the scene of the hazardous condition who can be contacted for further information and action.
- j.* Any other information, such as the circumstances leading to the hazardous condition, visible effects and containment measures taken that may assist in proper evaluation by the department.

**131.2(3) Reporting of subsequent findings.** All subsequent finding and laboratory results should be reported and submitted in writing to the department as soon as they become available.

These rules are intended to implement Iowa Code section 455B.115.

[Filed 2/3/78, Notice 10/5/77—published 2/22/78, effective 3/29/78]

[Filed emergency 10/31/80—published 11/26/80, effective 10/31/80]

[Filed emergency 6/3/83—published 6/22/83, effective 7/1/83]

[Filed emergency 11/14/86—published 12/3/86, effective 12/3/86]

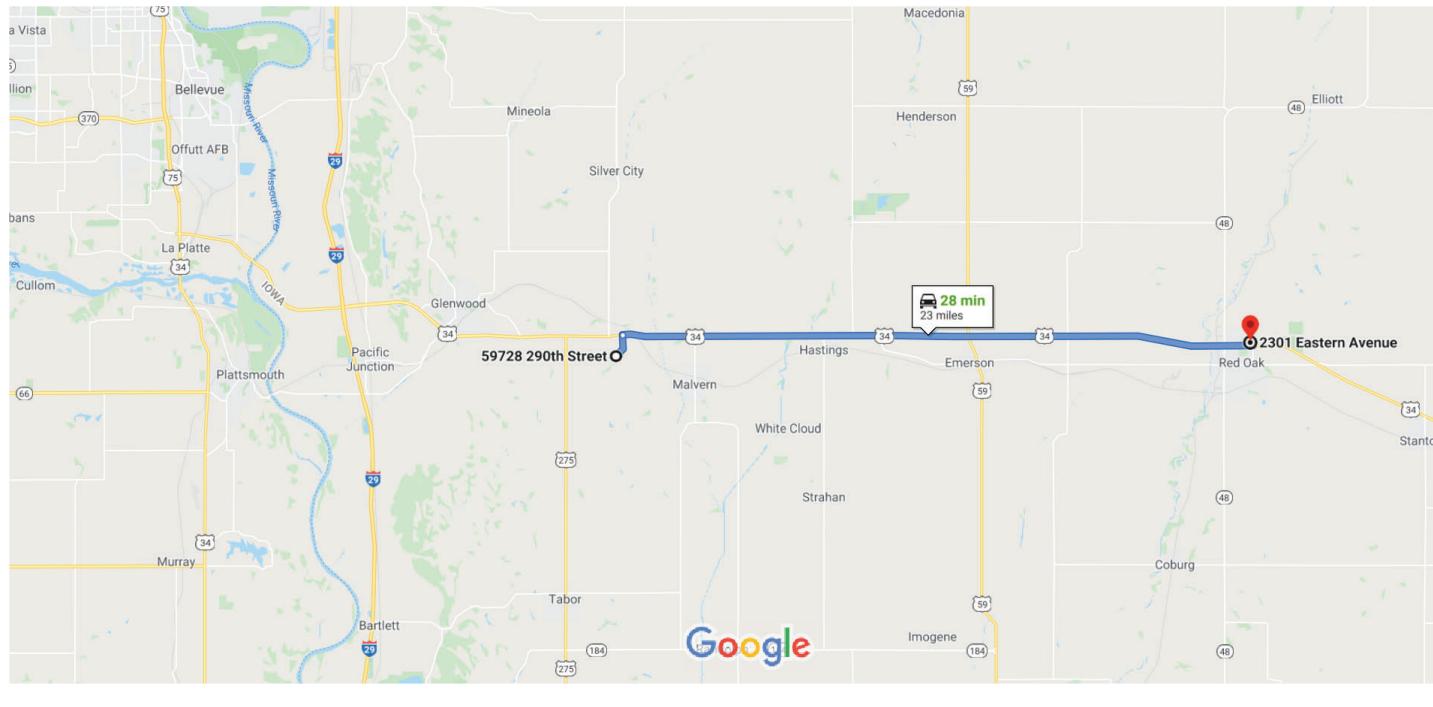
[Filed 12/30/93, Notice 10/13/93—published 1/19/94, effective 2/23/94]

## Attachment 4

### Directions to Hospital

59722 290th St, Malvern, IA 51551 to 2301 Eastern Ave, Red Oak, IA

Drive 23.0 miles, 30 min



Map data ©2020 2 mi

## 59722 290th St

Malvern, IA 51551

1. Head east on 290th St toward Jurd Ave 0.9 mi
2. Turn right onto US-34 E 21.9 mi
3. Turn left onto Eastern Ave 121 ft
4. Turn left onto Senate Ave 0.1 mi
5. Turn right 420 ft  
i Destination will be on the left

## 2301 Eastern Ave

Red Oak, IA 51566

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

## Attachment 5

### Special Populations Within Five Mile Radius

## AT-RISK POPULATIONS WITHIN A 5-MILE RADIUS

### HOSPITALS/CLINICS:

None

### SCHOOLS:

East Mills Community School District, 1505 E 15<sup>th</sup> St., Malvern, IA.....(712) 624-8700

### NURSING HOMES/ASSISTED LIVING:

Glen Haven Home, 133 Indian Hills Dr., Glenwood, IA.....(712) 302-9016

Nishna Productions Group Home, 302 2<sup>nd</sup> Ave, Malvern, IA .....(712) 624-8455

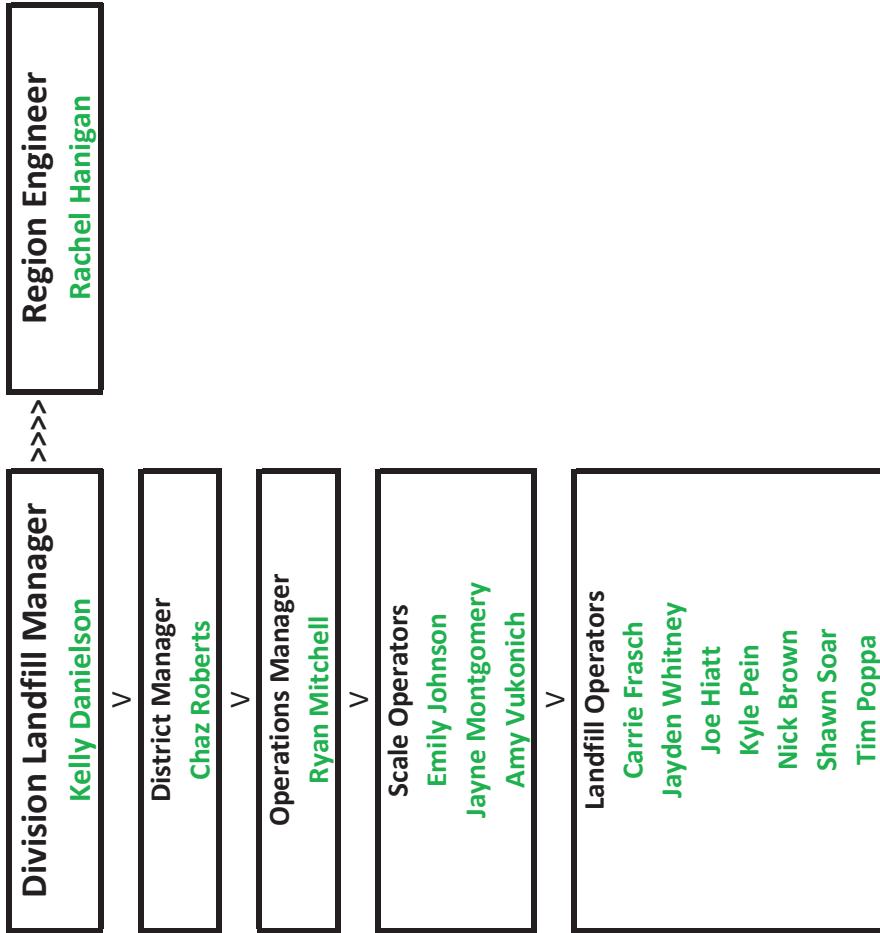
### DAY CARE CENTERS:

None

## Appendix C

### Organizational Chart and Operator Certification

## Loess Hills Regional Landfill Organizational Chart



Notes:

The organizational chart is subject to change without prior notification to the DNR.

### **Proof of MSWLF Operator Certification**

The certified operators utilized at the Loess Hills Regional Sanitary Landfill as of the date of this permit renewal application are:

Name	Certification Number
Ryan Mitchell	31225
Chaz Roberts	31338
Steve Childs	31227
Shawn Soar	31294
Lori Oakleaf	30141
Carrie Frasch	31295

## Appendix D

### Proof of Financial Assurance

November 20, 2025

KELLY DANIELSON  
REGIONAL MANAGER  
IOWA WASTE SERVICES LLC  
59722 290<sup>TH</sup> STREET  
MALVERN IA 51551

**Re: Loess Hills Regional Sanitary Landfill  
Permit Number 65-SDP-01-72P  
Approval of Financial Assurance**

Dear Kelly Danielson:

This is notification by the Iowa Department of Natural Resources (DNR) that Iowa Waste Services, LLC (the Company) has adequately complied with the financial assurance requirements of [rule 567—113.14\(455B\)](#) for the Loess Hills Regional Sanitary Landfill. The Company's financial assurance documentation ([Doc #112828](#)), received on April 12, 2025, has been placed in the DNR's record files.

The increase Rider to Surety Bond #868244 to the amount of \$7,839,615 equals the engineer's combined updated Cost Estimates for the landfill's Closure, Post-closure and Corrective Action. Accordingly, no further financial assurance information is required for the reporting year.

As a reminder, compliance with rule 567—113.14(455B) is to be submitted annually, by April 1<sup>st</sup>, confirming that all applicable financial assurance documents are updated as required.

Please feel free to contact me with any questions at [\(515\) 802-8835](#) or [mary.kleemesrud@dnr.iowa.gov](mailto:mary.kleemesrud@dnr.iowa.gov).

Sincerely,

Mary Kleemesrud  
Program Planner  
Land Quality Bureau

cc: Christine Collier, P.E., SCS Engineers

Iowa DNR Field Office #4, Atlantic