



May 2, 2024

MARK WHITE
PUBLIC WORKS DIRECTOR
CITY OF SPENCER, IOWA
418 2ND AVENUE WEST
SPENCER IA 51301

Re: Northern Plains Regional Landfill
Additional Drainage Layer for Cell E1 (Doc [#109906](#))
Permit #74-SDP-02-76P
Permit Revision

Dear Mr. White:

Enclosed is the revised permit for the Northern Plains Regional Landfill. The permit and the approved plans must be kept at the sanitary disposal project in accordance with the recordkeeping and reporting requirements of paragraph [113.11\(1\)"a"](#). Please review the permit with your operators, as they must become familiar with it.

The revision approves the QC&A report #1 for additional drainage layer for Cell E1.

Note that the permit contains special provisions that may require a response or action by you which, if not properly complied with, may prompt enforcement action by this department.

For any questions, you may contact me at [\(515\) 725-8358](tel:515-725-8358), or at geoffrey.spain@dnr.iowa.gov.

Sincerely,

Geoffrey Spain
Environmental Engineer
Land Quality Bureau

cc: Field Office #3

James E. Thiesse, PE
Kruse, Cate & Nelson, P.C.
1801 Highway Blvd.
Spencer, IA 51301

**IOWA DEPARTMENT OF NATURAL RESOURCES
SANITARY DISPOSAL PROJECT PERMIT**

- I. Permit Number:** 74-SDP-02-76P
- II. Permitted Agency:** Northern Plains Regional Landfill
- III. Project Location:** The NW 1/4 of Section 21, Township 97 North, Range 33 West of the 5th Principal Meridian, Palo Alto County, Iowa, except the northerly 470.00 feet of the easterly 350.00 feet of the Northwest Quarter, all located in Section 21, Township 97 North, Range 33 West of the 5th Principal Meridian, Palo Alto County, Iowa.
- IV. Responsible Official**
Name: Mark White
Address: Public Works Director
City of Spencer, Iowa
101 West 5th Street
Spencer, IA 51301
Phone: 712-580-7200
Email: mwhite@spenceriowacity.com
- V. Licensed Design Engineer**
Name: James E. Thiesse, PE
Address: Kruse, Cate & Nelson, P.C.
2303 W 18th Street
Spencer, IA 51301
Phone: 712-240-3468
Email: jim@kcn-eng.com
Iowa License Number: 12304
- VI. Date Permit Issued:** **12/30/2021** **Amendment #1**
Date Permit Revised: **01/05/2022** **Amendment #2**
05/16/2022 **Amendment #3**
07/13/2022 **Amendment #4**
12/20/2023 **Amendment #5**
04/09/2024 **Amendment #6**
05/02/2024 **Amendment #7**
- VII. Permit Expiration Date:** **03/04/2026**
- VIII. Issued by:** _____
Iowa Department of Natural Resources

IX. General Provisions

The above-named permitted agency is hereby authorized to operate a sanitary disposal project at the described location in conformance with Iowa Code section 455B, the rules pursuant thereto existing at the time of issuance, and any subsequent new rules which may be duly adopted, and any provisions contained in Section X of this permit.

The issuance of this permit in no way relieves the applicant of the responsibility for complying with all other local, state, and federal statutes, ordinances, and rules or other requirements applicable to the establishment and operation of this sanitary disposal project.

No legal or financial responsibility arising from the construction or operation of the approved project shall attach to the State of Iowa or the Department of Natural Resources (DNR) due to the issuance of this permit.

If title to this project is transferred, the new owner must apply to the DNR for a transfer of this permit within thirty days of the date of title transfer pursuant to subrule 113.4(3). This permit is void sixty days after the date of title transfer unless the DNR has transferred the permit.

The permit holder shall file a Quarterly Solid Waste Fee Schedule and Retained Fee Report utilizing the DNR's Form 542-3276 and remit tonnage fee payment, as applicable, for all wastes disposed at the sanitary disposal project in accordance with Iowa Code section 455B.310. The Reports will be due January 1, April 1, July 1 and October 1 for the quarters ending September 30, December 31, March 31 and June 30, respectively. The permit holder shall mail the completed report to the Solid Waste Section, Wallace State Office Building, 502 East Ninth Street, Des Moines, Iowa 50319. This reporting procedure supersedes any previous conflicting permit provisions.

The permit holder shall weigh all solid waste collection vehicles and solid waste transport vehicles on a scale certified by the Iowa Department of Agriculture and Land Stewardship. If conditions are such that make it impractical to provide an on-site scale, then off-site scale facilities may be used if justified and approved by the DNR. The permit holder shall comply with the waste weighing, record keeping and tonnage fee reporting requirements defined in rule 101.14(455B,455D). The scale weighing facilities shall comply with the certification and licensing requirements of the Iowa Department of Agriculture and Land Stewardship at all times. The permit holder shall maintain a current copy of the weighing scale facility licensing certificate issued by the Iowa Department of Agriculture and Land Stewardship at all times.

The permit holder shall comply with the gas control provisions of IAC 567 Chapters 20 through 31, including paragraph 23.1(2)"rrr" for the New Source Performance Standards and paragraph 23.1(5)"a" for the Emission Guidelines.

The permit holder shall ensure that the sanitary disposal project does not (1) cause a discharge of pollutants into waters of the United States, including wetlands, that violates any requirements of the Clean Water Act, including, but not limited to, the National Pollutant Discharge Elimination System (NPDES) requirements, pursuant to Section 402 of the Clean Water Act, and (2) cause the discharge of a nonpoint source of pollution into waters of the United States, including wetlands, that violates any requirement of an area wide or statewide

water quality management plan that has been approved under Section 208 or 319 of the Clean Water Act.

The permit holder shall submit an updated Municipal Solid Waste Sanitary Landfill Financial Assurance Report Form no later than April 1st, annually, pursuant to rule 113.14(455B). Use of this form provides permit holders a uniform means of submitting all required documentation to ensure that closure and postclosure cost estimates and applicable financial assurance instruments are updated as required.

Failure to comply with Iowa Code section 455B, or any rule of order promulgated pursuant thereto, or any provisions of this permit may result in 1) a civil penalty of up to \$5000 for each day of violation, pursuant to Iowa Code section 455B.307, or 2) the suspension or revocation of this permit, pursuant to Iowa Code section 455B.305.

X. Special Provisions

1. The permit holder is authorized to accept solid waste for disposal in accordance with the approved Northern Plains Regional Landfill Comprehensive Planning Area. The Comprehensive Plan as approved by the DNR on 11/01/2013 and updated on 05/29/2015; any approved amendments to the plan; and the latest plan update, are hereby incorporated as permit plan documents.

The permitted service area includes: All cities, and the unincorporated area in Emmet County; all cities, excluding West Bend, and the unincorporated area in Palo Alto County; all cities, excluding Fonda and Gilmore City, and the unincorporated area in Pocahontas County; the City of Whittemore in Kossuth County; the Cities of Superior and Terrill in Dickinson County; the City of Bode in Humboldt County; the City of Spencer in Clay County and the unincorporated area in Clay County.

In accordance with subrule 101.13(2), the permit holder shall submit an updated Comprehensive Solid Waste Management Plan, to the DNR by 5/1/2022.

2. The permit holder shall develop and operate the site in accordance with the approved updated Development and Operational Plan, dated October 15, 2020, as submitted by Kruse, Cate & Nelson, P.C.; and hereby approved, and the following:
 - a. Waste disposal is limited to Cell A, Cell B, Cell C, and Cell D. The site vertical height shall not exceed a maximum waste elevation of 1380 feet as shown on drawing no. 2103-X1. Any further expansion beyond these cells shall require prior DNR approval.
 - b. 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 Spencer* 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).

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).

- c. The permit holder shall follow the approved Emergency Response and Remedial Action Plan (ERRAP) procedures during all emergencies pursuant to subrule 113.8(5). 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.
3. The permit holder shall submit prior to the next unit construction or January 31, 2011, whichever is sooner, updated plans and specifications for the remainder of the expansion prepared in accordance with rule 113.7.
 - a. The permit holder is not authorized to construct any additional areas until such time that the facility design has been updated to comply with the revisions to 567 IAC Chapter 113 that became effective December 10, 2007, and the design is approved by the Department.
 - b. The permit holder shall notify the Department and have the site inspected when the construction of a new MSWLF unit or significant components thereof has been completed, in accordance with subrule 113.4(6). Prior to the inspection, the QC&A officer shall submit a final report to the department that verifies compliance with the requirements of rule 113.7 and the approved plans and specifications. No waste disposal shall commence in any newly constructed unit or portion thereof until it has been inspected and approved by the Department.
 - c. The Construction Certification Report, dated August 27, 2003, as prepared by James E. Thiesse, P.E. with Kruse, Cate & Nelson, PC. for the construction of Cells 18A, 19A, and 20A and approved August 29, 2003 is incorporated as part of the permit documents.

- d. The Construction Certification Report, dated October 28, 2004, as submitted by Kruse, Cate & Nelson, P.C. for the construction of Cell 21A and approved November 17, 2004 is incorporated as part of the permit documents.
- e. The Construction Certification Report, dated August 4, 2006, as prepared by James E. Thiesse, P.E. with Kruse, Cate & Nelson, P.C. for the construction of Cell A and approved on August 30, 2006 is incorporated as part of the permit documents.e,f., are hereby incorporated into the permit documents.
- f. The Iowa Professional Engineer Certification of Alternative Landfill Liner System dated February 25, 1999 and contained in the Alternative Liner Evaluation Report for Flanagan Landfill, dated February 1999, as submitted by Jacobson-Westergard & Associates, Inc. and approved on November 5, 1999, is incorporated into the permit documents. The approved alternative liner system for this facility is applicable to Cells 15A, 16A and 17A. This liner consists of a four-foot compacted soil liner with a coefficient of permeability of 1×10^{-7} cm/sec or less.
- g. The permit holder is authorized to construct Cell D1 per the hereby approved plans and specifications, dated March 6, 2017, as submitted by Kruse, Cate, & Nelson, P.C. Deviations from the approved plans and specifications shall be approved by the DNR prior to their construction. Any further construction beyond this area shall require prior DNR approval. No waste disposal shall commence in this cell until the construction certification report has been submitted and the cell has been inspected and approved by the Department.
- h. The Certification Report for the completed Cell D1, dated October 2, 2017, as submitted by Kruse, Cate & Nelson, P.C., is hereby approved and incorporated into the permit documents. Cell D1 is approved for waste disposal.
- i. The Quality Control and Assurance Plan Final Report for Cell D2, dated August 10, 2020, as submitted by Kruse, Cate & Nelson, P.C., is hereby approved and incorporated into the permit documents. Cell D2 is approved for waste disposal.
- j. The plans and specifications for Cell E1, dated May 15, 2023, as submitted by Kruse, Cate & Nelson, P.C., are approved and incorporated into the permit documents. Cell E1 is approved for construction.
- k. The Certification Report for Cell E1, dated December 15, 2023, as submitted by Kruse, Cate & Nelson, P.C., is approved and included in the permit documents.
- l. The As-Built drawings for Cell E1, dated April 4, 2024, as submitted by Kruse, Cate & Nelson, P.C., are approved and included in the permit documents. Cell E1 may now receive waste.

- m. The QC&A Report for additional drainage layer for Cell E1, dated April 25, 2024, as submitted by Kruse, Cate & Nelson, PC., is approved and included in the permit documents.
4. Hydrologic monitoring at the site shall be conducted in accordance with the updated Hydrologic Monitoring System Plan (HMSP) dated October 15, 2020, as submitted by HLW Engineering Group and approved on 1/28/2010; and the following:
- a. The HMSP shall include groundwater monitoring points MW-11, MW-12, MW-17, MW-3AR, MW-6B, MW-7A, MW-7B, MW-8, MW-9, MW-10, MW-14, MW-15, MW-16, GU-1, and GU-2.
 - b. Groundwater monitoring points MW-3B, MW-6A, MW-8B may be retained as water level measuring points.
 - c. 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.
 - d. 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 Appendix 1 in accordance with rule 113.10(455B). Groundwater samples shall **not** be field-filtered prior to laboratory analysis.
 - e. 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.
 - f. 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.
 - g. 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".
 - h. The permit holder shall submit the results of the routine semiannual sampling events within 60 days of receiving the results from the laboratory.
 - i. Monitoring Well Construction Documentation Forms for monitoring wells MW-14, MW-15 and MW-16, October 30, 2008 as included in Appendix C of the HMSP, dated May 28, 2010 are hereby incorporated into the permit documents.

- j. The permit holder is authorized to perform the full Appendix II sampling for monitoring points MW-7A, MW-7B, MW-8, MW-14, MW-15, and GU-1 on a five-year frequency rather than annually. Should additional constituents be detected during any full Appendix II sampling event that were not detected previously the frequency may be increased.
 - k. The permit holder shall include in each AWQR an evaluation of TSS/turbidity data and other pertinent sampling and analytical results, to determine if representative samples of groundwater have been collected. If samples are not representative, the permit holder may be required to utilize low flow or no-purge sampling methods, consider new well construction with an optimized filter pack design, and/or additional well development. If sample quality does not improve with improved well construction, well development, and/or sampling methods, the DNR will consider higher TSS/turbidity levels as representative of site groundwater conditions.
 - l. The Assessment of Corrective Measures Report, dated February 25, 2022, as submitted by HLW Engineering Group, is hereby approved and included in the permit documents.
5. The permit holder is authorized to recirculate leachate in accordance with the 2015 Revised Leachate Recirculation Operation Plan dated April 15, 2015, as submitted by Northern Plains Regional Landfill; and approved on April 22, 2015; and the following:
- a. The Leachate Control Plan, dated October 3, 2013, prepared by Kruse, Cate & Nelson, P.C., is hereby approved and incorporated into the permit.
 - b. Leachate application is restricted to only those MSWLF units with a composite liner constructed in accordance with paragraph 113.7(5) "a". Additionally, the permit holder must maintain a 2:1 (horizontal: vertical) separation from the recirculation points and the unlined waste area.
 - c. 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".
 - d. Leachate shall not be applied on user vehicle access areas.
 - e. Leachate shall not be applied to vegetated areas or frozen waste cover. A means of frost protection must be provided for all leachate control elements.
 - f. Leachate shall be applied evenly on the working area.
 - g. Leachate recirculation shall be conducted only during hours of operation and when an operator is on duty.
 - h. Leachate shall be applied in a manner such that ponding or runoff will not occur.

- i. 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.
 - j. Records shall be maintained as to the time and quantities of leachate application and be submitted with the facility Annual Leachate Control System Performance Evaluation Report (LCSPER).
 - k. Leachate recirculation shall be immediately terminated if it causes ponding, runoff, excessive odor, vector control problems, vapor drift, ice formation, or operational problems. The DNR's local Field office shall be immediately notified if any of the above events occur.
6. The permit holder shall conduct subsurface gas monitoring in accordance with the updated Gas Monitoring System Plan, dated October 15, 2020, as submitted by HLW, and approved on July 23, 2012, 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).
7. The Automobile Shredder Residue (ASR) as Alternative Daily Cover request, dated June 7, 2012, as submitted by Kruse, Cate & Nelson, P.C., and the subsequent electronic mail request to include Wire Shredder Residue dated, June 19, 2012, are both hereby approved and incorporated into the permit documents. The permit holder is authorized to use ASR and WSR (referred throughout as "Shredder Residue" from Shine Bros., Inc. of Spencer, Iowa as an alternative cover material, subject to the following:
- a. The permit holder is authorized to use Shredder Residue from Shine Bros., Inc. in Spencer, Iowa as an alternative cover material for a trial period of 90 calendar days from commencement. The 90 day trial period shall begin July 1, 2012.
 - b. The permit holder is authorized to use the Shredder Residue as an alternative cover material without mixing with soil during this trial period.
 - c. The permit holder shall remove all materials exceeding 1.5 inches in size before using as an alternative daily cover material. Quantities exceeding 2-weeks usage shall be disposed of in the workspace area. Only Shredder Residue placed at a ratio of 3:1 (3 tons waste to 1 ton of approved Shredder Residue) will be considered alternative daily cover.

Statewide tonnage fees shall be remitted quarterly in the amount of \$5,000 to account for Shredder Residue used in excess of the 3:1 ratio. The first quarterly payment of

\$5,000 shall be remitted with the tonnage fee report that is due January 1, 2013. Tonnage fee payments for Shredder Residue shall be reevaluated at the time of next permit renewal, or sooner, if the total amount of waste disposed of at the landfill increases significantly to where all Shine Bros. waste can be used beneficially as ADC at the approved ratio.

- d. The Shredder Residue may be used in lieu of the 6-inch daily cover requirement. Shredder Residue shall not be used as a substitute for intermediate or final soil cover.
 - e. The waste must be compacted before the Shredder Residue is applied, to provide an even surface to minimize ponding, prevent pockets, and to maximize uniform surface drainage.
 - f. Shredder Residue 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.
 - g. The permit holder shall maintain in the landfill files appropriate quarterly laboratory analytical documentation that demonstrates that the Shredder Residue 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 Department's Main and local Field office.
 - h. The use as daily cover of Shredder Residue from any other generator than the one approved above shall be subject to specifications approval by the Department.
 - i. If the Shredder Residue is found by the Department not to be performing satisfactorily, its use shall be discontinued and the remaining materials shall be disposed in the working face.
 - j. Within 30 days after completion of the trial period, a report shall be submitted to the Department evaluating the effectiveness of the Shredder Residue as an alternative cover material in controlling fire or fire hazards, blowing litter, odor, insects, rodents and precipitation entry into the waste. The report shall include the amount necessary on a daily basis to achieve the effectiveness as described above. The report shall also include TCLP and PCB test results.
 - k. Provided the report is submitted by August 1, 2012, and the evaluation demonstrates that the Shredder Residue is effective as an alternative cover material, the permit holder may continue to use the Shredder Residue as cover material until the Department issues a decision relative to the permanent use of the Shredder Residue as an alternative daily cover material at this site.
8. The Automobile Shredder Residue (ASR)/Wire Shredder Residue (WSR) Alternative Daily Cover Demonstration - Final Report, dated October 18, 2012 as submitted by the City of

Spencer for the Northern Plains Regional Landfill is hereby approved and incorporated into the permit documents.

9. The Automobile Shredder Residue (ASR) as Alternative Daily Cover (ADC) request, dated June 7, 2012, as submitted by Kruse, Cate & Nelson, P.C., and the subsequent electronic mail request to include Wire Shredder Residue dated, June 19, 2012, are both approved and incorporated into the permit documents. The permit holder is authorized to use ASR and WSR (referred throughout as "Shredder Residue" from Shine Bros., Inc. of Spencer, Iowa as an alternative cover material, subject to the following:

- a. The permit holder is authorized to use Shredder Residue from Shine Bros., Inc. in Spencer, Iowa as an alternative cover material without mixing with soil.
- b. The permit holder shall remove all materials exceeding 1.5 inches in size before using as an alternative daily cover material. Quantities exceeding 2-weeks usage shall be disposed of in the workface area. Only Shredder Residue placed at a ratio of 3:1 (3 tons waste to 1 ton of approved Shredder Residue) will be considered alternative daily cover.

Statewide tonnage fees shall be remitted quarterly in the amount of \$5,000 to account for Shredder Residue used in excess of the 3:1 ratio. Tonnage fee payments for Shredder Residue shall be reevaluated at the time of next permit renewal, or sooner, if the total amount of waste disposed of at the landfill increases significantly to where all Shine Bros. waste can be used beneficially as ADC at the approved ratio.

- c. The Shredder Residue may be used in lieu of the 6-inch daily cover requirement. Shredder Residue shall not be used as a substitute for intermediate or final soil cover.
- d. The waste must be compacted before the Shredder Residue is applied, to provide an even surface to minimize ponding, prevent pockets, and to maximize uniform surface drainage.
- e. Shredder Residue 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.
- f. The permit holder shall maintain in the landfill files appropriate quarterly laboratory analytical documentation that demonstrates that the Shredder Residue 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 Department's Main and local Field office.
- g. Acceptance of wire shredder residue from Shine Brothers, Spencer, Iowa is approved with the following conditions:

1. Annual sample testing of all 8 RCRA metals and total PCBs and quarterly samples to be tested for lead, shall be collected at the Shine facility, using the Sampling and Testing Protocol, dated March 18, 2010. As specified in the Sampling and Testing Protocol, the City of Spencer or the DNR may collect split samples.
2. Samples shall be prepared and tested by an Iowa certified laboratory using TCLP extraction method SW-846 1311 and testing solid waste method 6010B for RCRA metals and SW 8082 for PCBs.
3. The statistical evaluation referenced in the Sampling and Testing Protocol, dated March 18, 2010, must be completed each quarter and the permit holder shall submit copies documenting the sampling event, laboratory results with chain of custody, and the statistical evaluation, to the DNR with one copy retained in the landfill records within one week of receipt of laboratory results.
4. The upset condition response, as listed in the Sampling and Testing Protocol, dated March 18, 2010, is modified to include the following actions to be performed by the permit holder:
 - a. Notify Shine Management, City of Spencer, and Iowa DNR.
 - b. Refuse additional shipments of CWI.
 - c. Stockpile unincorporated CWI and request prompt removal by Shine. Notify United States Environmental Protection Agency of the presence of hazardous waste on site if not promptly removed.
 - d. Await notification from Shine that upset condition has been corrected as verified by sampling and evaluation.
 - e. Resume sampling.
 - f. Analyze samples for all eight (8) of the RCRA metals and total PCBs.
 - g. Upon receipt of laboratory results perform actions in Item 3 above and if Shine certifies that the CWI is a non-hazardous solid waste, as defined in 40 CFR 261.2 then accept shipments to the landfill.
 - h. Perform monthly sampling at the Shine facility through first quarter (total of three (3) samples in first three (3) months).
 - i. Return to Item 4 above with first quarter finished to sample next three (3) quarters.
 - j. If any sampling results fail for any subsequent sampling event after the initial upset condition, immediately stop receipt of additional shipments of CWI and contact DNR for discussion. Stockpile unincorporated CWI and request prompt removal by Shine. Notify United States Environmental Protection Agency of the presence of hazardous waste on site if not promptly removed.
5. The use as daily cover of Shredder Residue from any other generator than the one approved above shall be subject to approval by the Department.
6. If the Shredder Residue is found by the Department not to be performing satisfactorily, its use shall be discontinued and the remaining materials shall be disposed in the working face.

7. If the Shredder Residue is found by the Department not to be performing satisfactorily, its use shall be discontinued and the remaining materials shall be disposed in the working face.
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.
11. The Variance Request (Waiver), requesting using Automobile Shredder Residue (ASR) as intermediate cover without soil, as submitted by Northern Plains Regional Landfill, dated November 30, 2021, is approved and included in the permit documents.
12. The Automobile Shredder Residue (ASR) as Intermediate Cover request, dated September 8, 2021, as submitted by the City of Spencer, IA, is approved and incorporated into the permit documents. The permit holder is authorized to temporarily use ASR as an intermediate cover material without soil, subject to the following:
 - a. The permit holder is authorized to use Automobile Shredder Residue (ASR) from Shine Bros., Inc. in Spencer, Iowa as an intermediate cover material without mixing with soil until July 1, 2022. After July 1, 2022, any existing or new intermediate cover using ASR must be topped with 12 inches of soil, to be completed by September 1, 2022.
 - b. The ERRAP along with the Development and Operations Plan must be updated and submitted to the IDNR addressing the procedure for Landfill Fire Management by February 28th, 2022.
 - c. The soil and appropriate equipment required for landfill fire management and intermediate soil cover must be available by July 1, 2022.
 - d. The waste must be compacted before the ASR is applied, to provide an even surface to minimize ponding, prevent pockets, and to maximize uniform surface drainage.
 - e. The use as intermediate cover of ASR from any other generator than the one approved above shall be subject to approval by the IDNR.
 - f. If the ASR is found by the IDNR not to be performing satisfactorily, its use shall be discontinued and the remaining materials shall be disposed in the working face.
13. The permit holder shall close the landfill site in accordance with the updated Closure/Post Closure Plan dated October 15, 2020, as submitted by Kruse, Cate & Nelson, P.C. and

approved on 1/28/2010; and the Development and Operation Plan, dated 3/20/2015, all as submitted by Kruse, Cate & Nelson, P.C.; and hereby approved the following:

The Construction Certification Report for Northern Plains, dated March 1, 2008, as submitted by Kruse, Cate & Nelson, P.C. and approved on 1/28/2010, is incorporated as part of the permit documents. The final cover was constructed (over cells.....) over cells 5A-21A. -remaining

- a. 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.

XI. Permit Renewal and Revision History (OPTIONAL)

Date	Comment
12/30/2021	Approval of Variance for ASR as Intermediate Cover, and Addition of amendment approving use of ASR as intermediate cover
01/05/2022	Changes to dates in Special Provision 12
05/16/2022	Approval of ACM
07/13/2023	Approval of plans and specifications for Cell E1
12/20/2023	Approval of Certification Report for Cell E1
04/09/2024	Approval of As-Built drawings for Cell E1
05/02/2024	Approval of Additional Drainage Layer for Cell E1