



June 27, 2018

MR MARK MATHIS
DICKINSON LANDFILL, INC.
2575 190TH STREET
SPIRIT LAKE, IA 51360

**RE: Dickinson County Sanitary Landfill
Permit No. 30-SDP-1-75P
Variance Approval
Revised Permit**

Dear Mr. Mathis:

Enclosed is the revised permit originally issued on March 21, 2016, for the Dickinson County Sanitary Landfill. The Iowa Department of Natural Resources (DNR) issues this permit revision for the approval of a variance to direct bury untreated petroleum contaminated soil (PCS) at the working face. No overnight storage is allowed.

The revised permit and the approved plans at the sanitary disposal project in accordance with the recordkeeping and reporting requirements of subparagraph 113.11(1). Please review this revision with your operators, as they must become familiar with it. Note that the revision may contain conditions that require a response or action by you, which if not properly complied with, may prompt enforcement action by this department.

If you have any questions, please contact Mike Smith at (515) 725-8314 or mike.smith@dnr.iowa.gov.

Sincerely,

Michael W. Smith, P.E.
Environmental Engineer Senior

Enclosure:

cc: Deb McDonald, P.E.
Waste Management, Inc.
3101 West Superior Street
Duluth, MN 55806

Norman Wenck, P.E.
Wenck Associates, Inc.
1800 Pioneer Creek Ctr
Maple Plain, MN 55359

Mark Olson
Wenck Associates, Inc.
1800 Pioneer Creek Center
Maple Plain, MN 55359

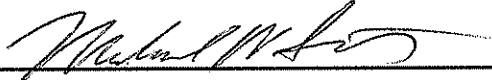
Blair Nelson
Waste Management, Inc.
12755 137th St
Glencoe, MN 55336

DNR Field Office #3, Spencer

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

- I. Permit Number:** 30-SDP-01-75P
- II. Permitted Agency:** Dickinson Landfill, Inc.
- III. Project Location:** E ½, NW ¼ and W ½, NE ¼ of Section 27, T99N, R36W of the 5th PM, Dickinson County, IA; also including Parcel "A" as described on the plat survey attached to the permit renewal application, September 2006.
- IV. Responsible Official**
Name: Mark Mathis
Address: 2575 190th Street
Spirit Lake, IA 51360

Phone: (712) 336-3980
FAX: (712) 336-0803
- V. Licensed Design Engineer**
Name: Norman Wenck
Address: Wenck Associates, Inc.
1800 Pioneer Creek Ctr
Maple Plain, MN 55359

Phone: (763) 479-4200
FAX: (763) 479-4242
Iowa License Number: 7149
- VI. Date Permit Issued:** March 21, 2016
Date Permit Revised: December 13, 2016
Date Permit Revised: March 28, 2018
Date Permit Revised: June 18, 2018
Date Permit Revised: June 27, 2018
- VII. Permit Expiration Date:** March 21, 2021
- 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 areawide 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 Dickinson County Landfill Commission Planning Area Comprehensive Plan. The Comprehensive Plan as approved by the DNR on November 9, 2015; any approved amendments to the plan; and the latest plan update, are hereby incorporated as permit plan documents.

The permitted service area includes: The cities and unincorporated areas of Dickinson County, excluding the cities of Superior and Terrill; and Waste Management of Southern Minnesota, Rock County and Martin County MN.

In accordance with subrule 101.13(2), the permit holder shall submit an updated Comprehensive Solid Waste Management Plan, to the DNR by September 1, 2020.

2. The permit holder shall develop and operate the site in accordance with the Revised Operations Plan and Revised Methane Migration Plan, dated March 12, 2009, as submitted by Liesch and approved on August 7, 2009, the Permit Renewal Document, dated September 30, 2013, Executive Summary – 2013 Solid Waste Permit Renewal, dated April 2, 2014, and the Response to Comment Letters, dated November 5, 2014, all prepared by Wenck Associates, Inc., the Response to September 11, 2015 IDNR letter to facility, dated January 11, 2016, prepared by Waste Management, wetland permit CEMVR-OD-P-2015-169 from the Department of Army (dated December 8, 2016/expiration date December 31, 2041), meeting minutes dated March 9, 2016, as prepared by DNR and the following:
 - a. Waste disposal is limited to the Unlined Fill Area, the composite lined Cells B and C. The site vertical height shall not exceed a maximum waste elevation of 1638 ft. Any further expansion beyond Cells A, B, and C shall require prior DNR approval. The permit holder is prohibited from placing waste in Cell A unless the following conditions are met:
 - i. A new fill plan and final cover plan is developed and approved for the unlined area, Cells A, B, C and the remaining yet to be constructed cells.
 - ii. The fill plan shall use updated topographic information of the unlined and lined areas.

- iii. An updated Closure/Post Closure Plan is developed and approved, and
 - iv. The fill plan does not allow filling at a grade steeper than 4:1 (Horizontal:Vertical) at the boundary of the unlined area and Cell A, unless the unlined area is further developed with the use of a liner and leachate collection system in accordance with 567 Iowa Administrative Code (IAC) 113.7(5)"a". If the permit holder designs a steeper final grade greater than 4:1, at any location of the existing and proposed future areas a demonstration must be made and approved that a steeper final grade, in accordance with 567 IAC 113.12(1)"e" is unlikely to adversely affect final cover system integrity or liner and leachate collection system stability (567 IAC 113.7(4)"b").
- 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 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 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. The ERRAP, dated September 30, 2013, is hereby included in the permit.
3. The permit holder is authorized to construct the liner and leachate collection system in accordance with Appendix 2 in the Permit Renewal Document, dated September 2006, prepared and submitted by Liesch Companies, the Permit Renewal Document, dated September 30, 2013, Executive Summary – 2013 Solid Waste Permit Renewal, dated April 2,

2014, the Response to Comment Letters, dated November 5, 2014, all prepared by Wenck Associates, Inc. and the Response to September 11, 2015 IDNR letter to facility, dated January 11, 2016, prepared by Waste Management and the following:

- a. The permit holder shall notify the DNR 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 DNR 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 DNR.
 - b. The Construction Documentation Report for Phase A1 and B Lined Disposal Cells dated July 14, 2000, as submitted by Liesch Associates, Inc. and approved on August 14, 2000 is incorporated as part of the permit documents.
 - c. The Construction Documentation Report for Phase C, dated October 2007, as prepared by Liesch Associates, Inc. and approved November 15, 2007 is incorporated as part of the permit documents.
 - d. The Construction Documentation Report for the Leachate Systems Improvement, dated January 30, 2012, as prepared by Wenck Associates, Inc. is incorporated into the permit documents.
4. Hydrologic monitoring at the site shall be conducted in accordance with rule 113.10(455B); and the following:
- a. The HMSP shall include groundwater monitoring points MW-11A, MW-12A, MW-13A, MW-19A, MW-21A, MW-23A, MW-34A, MW-36A, MW-37A, MW-38A, MW-39A and MW-40A and groundwater underdrain discharge from GU-B/C at the Holding Pond.
 - b. 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.
 - c. The permit holder shall conduct background and routine semi-annual groundwater sampling and analysis; as well as perform statistical tests for the approved monitoring points for Appendix I and total suspended solids (TSS) in accordance with rule 113.10(455B). Groundwater samples shall **not** be field-filtered prior to laboratory analysis and total suspended solids shall be analyzed using Method 1376585, with a reporting limit goal of ≤ 2 mg/l). Turbidity measurement may be approved by the DNR in lieu of TSS, provided a correlation between the two is established.
 - d. 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.

- 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 decreased 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 (including semi-annual measurement of the Phase C groundwater underdrain piezometer elevation) within 1/100 of a foot in each well 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" and by using the DNR Annual Water Quality Report Format.
- h. The Liner Evaluation and Certification Report Concerning Water Discovered between the Clay and Geosynthetic Liner Components, dated September 20, 2000, as submitted by Liesch and approved on October 27, 2000 is incorporated as part of the permit documents.
- i. The Phase B Groundwater Evaluation and Mitigation Work Plan, dated October 6, 2000, as submitted by Waste Management, Inc., and approved on October 27, 2000, is incorporated as part of the permit documents.
- j. The Phase B Groundwater Source Evaluation Report, dated October 16, 2000, as submitted by Waste Management, Inc., and approved on October 27, 2000, is incorporated as part of the permit documents.
- k. The construction documentation forms for groundwater monitoring wells MW-37A and MW-38A and gas monitoring probes GP-7, GP-8, GP-9, GP-10, GP-11, GP-12 and GP-13, dated September 29, 2009, as submitted by Liesch are hereby incorporated into the permit documents.
- l. The construction documentation forms for groundwater monitoring well MW-39A dated June 22 and June 29, 2012, all as submitted by Liesch are hereby incorporated into the permit documents.

- m. The construction documentation forms for groundwater monitoring well MW-40A, new gas monitoring probe GP-14, and well abandonment forms for monitoring wells MW-22 and MW-29, dated October 17, 2014, as submitted by Wenck Associates, Inc. are hereby incorporated into the permit documents.
 - n. The well abandonment forms for monitoring well MW-18A, dated June 4, 2018, as submitted by Wenck Associates, Inc., was approved on June 18, 2018 and incorporated into the permit documents.
5. The permit holder shall conduct subsurface gas monitoring in accordance with the Revised Operations Plan and Revised Methane Migration Plan, dated March 12, 2009, as submitted by Liesch and approved on August 7, 2009, the addition of gas monitoring probe GP-14, approved November 19, 2014, and the updated Landfill Gas Monitoring Program, dated November 30, 2015, 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 Landfill Gas Collection and Control System 2005 Construction Activity Report, dated November 2005, as prepared by Shaw Environmental, Inc. and submitted by Waste Management is incorporated as part of the permit documents.
 - d. The Landfill Gas Collection and Control System 2006 Construction Activity Report, dated November 2006, as prepared by Shaw Environmental, Inc. and submitted by Waste Management is incorporated as part of the permit documents.
 - e. The permit holder is required to continue implementation of the groundwater remediation and monitoring plan (GRAMP), dated October 24, 1996, as submitted by Sanifill, and approved on May 14, 1997. The permit holder shall maintain gas extraction wells, designated as EW-1, EW-2, and EW-3, which were installed to mitigate the VOC exceeds previously noted at various monitoring wells on the northeast portion of the site. An evaluation of the performance of the remediation program shall be included in each semiannual water quality report, and summarized in the Annual Water Quality Reports (AWQR).
 - f. The 2009 Landfill Gas System Improvements construction documentation dated November 9, 2009 as submitted by Waste Management is hereby incorporated into the permit documents.

- g. The 2011 Landfill Gas Extraction System Construction documentation report, dated November 30, 2011 as prepared by Wenck Associates Inc. is hereby approved and incorporated into the permit documents.
 - h. The Construction Activity Memorandum 2012 Landfill Gas Collection System Improvements, dated November 5, 2012, as prepared by Waste Management is incorporated into the permit.
6. The permit holder is authorized to evaporate leachate over the lined leachate storage lagoon using a Landshark-45 Evaporator in accordance with the request dated May 4, 2012, as submitted by Waste Management and the following:
- a. Operation of the leachate evaporator shall be performed only when staff is on-site and during regular landfill operating hours.
 - b. The wind direction shall be assessed prior to daily operation to adjust the position of the evaporator to avoid wind drift.
 - c. Operation of the evaporator shall be ceased when winds exceed 20 mph.
 - d. The evaporator shall only be operated when the ambient temperature is above 50° Fahrenheit and there is no precipitation.
 - e. Operations shall be immediately modified or ceased should drift of leachate outside of the lagoon be observed.
 - f. Daily records shall be maintained to record operating hours, wind speed, wind direction, temperature and weather conditions.
7. In accordance with the disposal of untreated petroleum contaminated soils variance request dated June 26, 2018, and approved May 15, 2012, as submitted by Waste Management, the permit holder is authorized to directly, and immediately upon receipt, dispose of untreated petroleum contaminated soils (PCS) at the working face for a period to coincide with the solid waste permit which expires March 21, 2021; and the following:
- a. The PCS must be determined to be not hazardous (via federal exemption and/or analytical testing) and immediately buried at the working face.
 - b. The untreated PCS must not contain free liquids as determined by the paint filter liquids test (EPA Method 9095), nor exhibit one of the four characteristics of a hazardous waste defined in 40 CFR Part 261 Subpart C for ignitability (D001), corrosivity (D002), reactivity (D003) and toxicity (D004-D0043).
 - c. PCS resulting from the cleanup of petroleum underground storage tanks are exempt from RCRA hazardous waste management if the media and debris 1) exhibit the TC for D018-D043, and 2) are subject to the corrective action requirements in 40 CFR Part 280

of the UST regulations. This exemption does not apply to petroleum contaminated media resulting from spills or releases from aboveground storage tanks, other surface spills, or if the PCS become contaminated with a listed hazardous waste.

- d. PCS meeting the above-referenced criteria is deemed a "solid waste" and therefore applicable waste flow and tonnage fee requirements will need to be adhered. PCS may continue to be received for remediation pursuant to subrule 109.11(2), or accepted from outside the planning area for disposal as long as the provisions of IAC 567 Chapter 101.4 are followed (i.e. maintain written approvals).
8. The permit holder is authorized to use a geotextile by the trade name Belton Industries Style 1104 and Style 2159, and a geotextile by the trade name Durashield 11,000 FR and 315 ST Woven Geotextile distributed by Brawler Industrial Fabrics, and also a geotextile by the trade name Geotex type 2400 BT FR distributed by KYM Industries, as an alternative cover material for the active MSWLF unit, subject to the following:
- a. The use and installation of this product shall be in conformance with the manufacturer's recommendations.
 - b. This product shall only be used as a daily alternative cover material and shall not be utilized as a replacement for soil cover if application performance in terms of litter, vector, odor, and precipitation entry control is not provided.
 - c. This product shall be applied so as not to promote water ponding, or drainage run-on from adjacent upper and side MSWLF unit areas beneath the installed geotextile.
 - d. This product shall be weighted at the close of each working day to prevent displacement by wind through the use of soil or tires.
 - e. This product shall not be exposed for longer than **seven (7)** consecutive days. For any waste covered with this product beyond the stipulated time frame, the product shall be removed and the underlying waste shall be immediately covered with soil in accordance with the applicable IAC rules
 - f. This product shall not be used if it becomes damaged or worn, or if the intended performance is breached. In such instances, this product shall be disposed of as a part of the waste fill.
 - g. The operator shall inspect each application of this product for thorough coverage and cover integrity. If operational problems arise from the use of this product or its method of application, the use of this product shall be suspended until proper corrections are made by the operator, with six inches of compacted daily cover being utilized during this interim period.
 - h. If, at any time, the DNR or permit holder deems this product to be ineffective or otherwise unsatisfactory, the permit holder shall immediately revert to soil or another

previously approved alternative daily cover. The permit holder shall immediately notify the DNR's Main and local Field office through both written and verbal notification of this action. This notification is not necessary if use of this product ceases only on a temporary basis, such as during adverse operational or weather conditions.

9. The Wood Ash as Alternative Daily Cover request, dated December 17, 2012, and the Alternative Cover Final Report, dated July 24, 2013, both as submitted by Waste Management, are incorporated into the permit documents. The permit holder is authorized to use Wood Ash (referred throughout as "Front Ash" from Poet Bio-refining of Chancellor, SD.) as an alternative cover material, subject to the following:
 - a. The permit holder is authorized to use Front Ash from Poet Bio-refining of Chancellor, SD as an alternative cover material.
 - b. The permit holder is authorized to use the Front Ash as an alternative cover material without mixing with soil.
 - 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 workface area. Only Front Ash placed at a ratio of 3:1 (3 tons waste to 1 ton of approved Front Ash) will be considered alternative daily cover.
 - d. The Front Ash may be used in lieu of the 6-inch daily cover requirement. Front Ash shall not be used as a substitute for intermediate or final soil cover.
 - e. The waste must be compacted before the Front Ash is applied, to provide an even surface to minimize ponding, prevent pockets, and to maximize uniform surface drainage.
 - f. Front Ash 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 laboratory analytical documentation that demonstrates that the Front Ash 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.
 - h. The use as daily cover of Front Ash from any other generator than the one approved above shall be subject to specifications approval by the DNR.
 - i. If the Front Ash 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.

10. The permit holder is authorized to use grit (rocks, gravel, sand) from the Emmetsburg Poet Biofuel plant in Emmetsburg, Iowa as an alternative cover material, subject to the following:

- a. The quantity of grit accepted or stockpiled shall not exceed the maximum waste to cover ratio of 3:1 necessary to provide daily cover for waste accepted during a single day. Excess grit (of the 3:1 ratio) may not be disposed at the landfill.
- b. The grit shall generally consist of rocks, gravel, and sand.
- c. The permit holder is authorized to use grit with or without mixing with soil for use as alternative daily cover, subject to the following:
 1. Only grit placed at a ratio of 3:1 (3 tons of waste to 1 ton of approved grit) will be considered alternative daily cover.
 2. If necessary, soil shall be blended with the grit or the percentage of soil increased to optimize cover performance relative to the criteria stated in items "e" and "f" below.
 3. The permit holder shall scarify the grit/soil 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.
- d. Grit/soil shall not be used as a substitute for final soil cover.
- e. The waste must be compacted, before the grit/soil is applied, to provide an even surface to minimize ponding, prevent pockets, and to maximize uniform surface drainage.

11. The permit holder is authorized to use clinker from the Emmetsburg Poet Biofuel plant in Emmetsburg, Iowa as an alternative daily cover material, subject to the following:

- a. The quantity of alternative cover material used shall not exceed the maximum waste to cover ratio of 3:1 necessary to provide daily cover for waste accepted during a single day. Excess alternative cover material obtained outside of the Dickinson County Sanitary Landfill planning area but originating in Iowa (of the 3:1 ratio) may not be disposed at the landfill.
- b. The clinker shall generally consist of rocks, dirt, sand, melted ash and limestone.
- c. The permit holder is authorized to use clinker with or without mixing with soil for use as alternative daily cover, subject to the following:
 1. Only clinker placed at a ratio of 3:1 (3 tons of waste to 1 ton of approved clinker) will be considered alternative daily cover.
 2. If necessary, soil shall be blended with the clinker or the percentage of soil increased to optimize cover performance relative to the criteria stated in items "e" and "f" below.
 3. The permit holder shall scarify the clinker/soil 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.

- d. Clinker/soil shall not be used as a substitute for final soil cover.
 - e. The waste must be compacted, before the clinker/soil is applied, to provide an even surface to minimize ponding, prevent pockets, and to maximize uniform surface drainage.
 - f. Clinker/soil shall be applied to the active waste face at the end of each day of operations and more frequently if necessary to control fire hazards, blowing litter, scavenging, odors, insects, and rodents.
 - g. The permit holder shall maintain daily logs that include descriptions of physical characteristics of the material, application procedures, application thickness, amounts used daily, and weather conditions preventing the material's use.
 - h. If, at any time, the DNR or permit holder deems this product to be ineffective or otherwise unsatisfactory, the permit holder shall immediately revert to soil or another previously approved alternative daily cover. The permit holder shall immediately notify the DNR's Main and local Field office through both written and verbal notification of this action. This notification is not necessary if use of this product ceases only on a temporary basis, such as during adverse operational or weather conditions.
12. 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.
13. The permit holder is authorized to collect and temporarily store used oil for recycling purposes. The storage tank(s) shall be designed and maintained to prevent the spillage or discharge of used oil. Absorbent material shall be available at the tank site for use by the operator to control used oil spillage or discharge. The used oil shall be processed in accordance with IAC 567 Chapter 119. The maximum length of time for storage is twelve (12) months.
14. The permit holder is authorized to accept and temporarily store antifreeze for recycling purposes. The antifreeze shall be stored in plastic drums at a location designated by the operator. Absorbent material shall be available for use by the operator to control antifreeze spillage or discharge. The plastic drums shall be placed in a spill control pan of a capacity sufficient to contain the contents of the largest drum with all drums in place in the control pan. The maximum length of time for storage is twelve (12) months.
15. 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.

16. The permit holder shall close the landfill site in accordance with the Closure /Post Closure Plan in Attachment 3 of the Response to Comment Letters, dated November 5, 2014, all as submitted by Wenck Associates, Inc. and the Response to September 11, 2015 IDNR letter to facility, dated January 11, 2016, prepared by Waste Management; and the following:

- a. The Construction Documentation Report 2014 Evapotranspiration (ET) Cover System, dated November 3, 2014, as prepared by Wenck Associates, Inc. is incorporated into the permit.

XII. Permit Renewal and Revision History

| Date | Comment |
|-------------|--|
| 3/21/2016 | Permit Renewed |
| 12/13/2016 | <ol style="list-style-type: none">1. Change the Responsible Official to Dennis Leach.2. Incorporate Department of Army wetland permit, dated December 8, 2016, authorizing work in conjunction with the construction associated with the loss of 1.2 acres of emergent wetland. |
| 3/28/2018 | <ol style="list-style-type: none">1. Change Responsible Official to Mark Mathis.2. X.4.g. requires the use of DNR approved Annual Water Quality Report format. |
| 6/18/18 | <ol style="list-style-type: none">1. Provision X.4.n approves well abandonment forms for monitoring well MW-18A. |
| 6/27/18 | <ol style="list-style-type: none">1. Provision X. 7. approves the direct disposal of petroleum contaminated soil. Following sections are re-numbered. |