BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

WASTE MANAGEMENT OF ILLINOIS, INC.,	)	
Petitioner,	)	
v.	)	PCB 2025-002 (Permit appeal)
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,	)	
Respondent.	)	

JOINT STIPULATION OF FACTS AND DOCUMENTS

Petitioner, Waste Management of Illinois, Inc. ("WMI"), and Respondent, Illinois Environmental Protection Agency ("IEPA"), in order to aid the Illinois Pollution Control Board ("Board") in its resolution of the parties' Cross Motions for Summary Judgment in the above-captioned permit appeal, have agreed and stipulated to the following facts and to the genuineness and admissibility of the attached documents.

1. WMI is the permitted operator of the Prairie Hill RDF ("Prairie Hill"), a municipal solid waste and non-hazardous special waste landfill located in Whiteside County, Illinois.

2. WMI filed an application for local siting approval for a non-hazardous waste landfill and landscape waste transfer station with Whiteside County on April 30, 1992, on a site consisting of 423 acres, 229 of which would be developed for the landfill footprint, on which Prairie Hill is now located.

3. Whiteside County conducted public hearings on that application on July 30 and July 31, 1992.

4. By resolution dated September 15, 1992, the County Board of Whiteside County found and decided that WMI satisfied the criteria for siting of a pollution control facility set forth in Section 39.2 of the Illinois Environmental Protection Act and granted local siting approval for

the facility. A true and correct copy of the September 15, 1992 resolution is attached hereto as **Exhibit A**.

5. On July 10, 1995, the Illinois EPA issued WMI a solid waste landfill permit, Permit No. 1994-579-LF, for Prairie Hill, which authorized the development of the landfill.

6. On August 12, 2015, the Illinois EPA issued Modification No. 87 to Permit No. 1994-579-LF. A true and correct copy of Modification No. 87 is attached hereto as **Exhibit B**.

7. By resolution dated August 18, 2015, Whiteside County amended the September 15, 1992 local siting approval for Prairie Hill to remove the condition which prohibited the landfill from accepting special waste. A true and correct copy of the August 18, 2015 resolution is attached hereto as **Exhibit C**.

8. Since August 2015, Prairie Hill has been permitted by the Illinois EPA to accept non-hazardous special waste.

9. On February 13, 2019, the Illinois EPA Bureau of Air issued WMI a construction permit to construct a leachate evaporator at Prairie Hill.

10. On December 12, 2019, WMI submitted an application to Illinois EPA Bureau of Land for a modification to Permit No. 1994-579-LF allowing it to install a leachate evaporation system at Prairie Hill.

11. Modification No. 107 to Permit No. 1994-579-LF, issued on June 3, 2020, approved WMI's proposal to install the leachate evaporator. A true and correct copy of Modification No. 107 is attached hereto as **Exhibit D**.

12. Modification No. 116 to Permit No. 1994-579-LF, issued on February 10, 2023, approved the operation of the leachate evaporator.

13. Modification No. 121 to Permit No. 1994-579-LF, issued on August 16, 2024, is the current operating permit for Prairie Hill. A true and correct copy of Modification No. 121 is attached hereto as **Exhibit E**.

14. Prairie Hill's leachate evaporator is permitted to manage 40,000 gallons of leachate per day.

15. Prairie Hill leachate is a special waste.

16. Prairie Hill currently generates approximately 20,000 gallons of leachate per day, which is managed by the evaporator.

17. WMI also controls and is the permitted operator of the Peoria City/County Landfill 2 ("PCC #2"), a municipal solid waste landfill located in Peoria County, Illinois.

18. On January 12, 2024, WMI submitted an application to the Illinois EPA requesting a permit to allow Prairie Hill to accept leachate from PCC #2 at the Prairie Hill evaporator. A true and correct copy of the January 12, 2024 application is attached hereto as **Exhibit F**.

19. The permit application did not request an increase in the permitted capacity of the evaporator.

20. The Illinois EPA denied the permit application by letter dated June 18, 2024. A true and correct copy of the June 18, 2024 letter is attached hereto as **Exhibit G**.

Respectfully Submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

by KWAME RAOUL, Attorney General of the State of Illinois

Elizabeth Dubats

Assistant Attorney General
Environmental Enforcement

WASTE MANAGEMENT OF ILLINOIS INC.

One of its Attorneys

Taft, Stettinius & Hollister LLP

EXHIBIT A

RESOLUTION #1

WHEREAS, Waste Management of Illinois, Inc., a Delaware corporation ("WMII") filed an Application for site location approval for a regional pollution control facility pursuant to Illinois Revised Statutes, Chapter 111½, Paragraph 1039.2; and

WHEREAS, the Application was deemed filed on the 30th day of April, 1992; and

WHEREAS, a hearing concerning said Application was conducted by William Barrett, duly appointed hearing officer for the County of Whiteside, pursuant to the Statues of the State of Illinois, and Ordinances of the County of Whiteside; and

WHEREAS, Illinois Revised Statues, Chapter 111½, Paragraph 1039.2(e) provides:

> Decisions of the county board or governing body of the municipality are to be in writing, specifying the reasons for the decision, such reasons to be in conformance with subsection (a) of this Section. In granting approval for a site, the county board or governing body of the municipality may impose such conditions as may be reasonable and necessary to accomplish the purposes of this Section and as such are not inconsistent with regulations promulgated by the Board. Such decisions shall be available for public inspection at the office of the county board or governing body of the municipality and may be copied upon payment of the actual cost for the reproduction. If there is no final action by the county board or governing body of the municipality with 180 days after the filing of the request for site approval the applicant may deem the request approved.

WHEREAS, it is the desire of the Whiteside County Board to make a decision on the Application in accordance with the criteria and other provisions enumerated in the Illinois Revised Statutes, Chapter 111½, Paragraph 1039.2.

NOW, THEREFORE, BE IT RESOLVED by the Whiteside County Board, Whiteside County, Illinois, as follows:

1. Incorporation of Preambles. The County Board hereby finds that the recitals contained in the preambles to this Resolution are true and correct and incorporates them into this Resolution by reference.

2. Decision Concerning Jurisdiction. The Board finds and decides that it has jurisdiction to conduct a hearing in the Application for local siting approval, pursuant to Illinois Revised Statutes, Chapter 111½, Paragraphs 1039.2(b) and (d), pursuant to the Findings of Fact and Decision which is attached hereto and incorporated herein by reference as Exhibit "A".

3. Decisions on the Merits of the Application. The County Board finds and decides that WMII has satisfied the criteria set forth in Illinois Revised Statutes, Chapter 111½, Paragraph 1039.2(a), pursuant to the Findings of Fact and Decision which is attached hereto and incorporated herein by reference as Exhibit "A" and which are hereby adopted and approved as the final decision of the County Board.

4. Superseder and Effective Date. All resolutions, motions and orders, or parts thereof, in conflict herewith are to the extent of such conflict hereby superseded; and this Resolution shall be in full force and effect upon its passage, approval and publication as provided by law.

APPROVED this 15 day of September, 1992.

Tony Heusinkveld
County Board Chairman

IN FAVOR	11
AGAINST	7
ABSENT	2
DATE FILED	9-15-92
DATE PUBLISHED	

FILED

SEP 15 1992

DAN HEUSINKVELD
COUNTY CLERK

BEFORE THE COUNTY BOARD OF WHITESIDE COUNTY
WHITESIDE COUNTY, ILLINOIS

IN THE MATTER OF:	)
	)
LANDFILL SITING REQUEST OF	)
WASTE MANAGEMENT OF ILLINOIS, INC.	)
	)

FINDINGS OF FACT AND DECISION

Now comes the County Board of Whiteside County, Illinois (the "County Board") and for its findings of fact and decision in regard to the Application of Waste Management of Illinois, Inc., a Delaware corporation ("WMII") for local siting approval (the "Application") pursuant to Ill.Rev.Stat., ch. 111½, ¶1039.2, states as follows:

APPLICATION FOR SITING APPROVAL

On April 30, 1992, WMII filed its request for local siting approval of a non-hazardous waste landfill and landscape waste transfer station located at the northeast corner of the intersection of Yager Road and U.S. Route 30 (Lincoln Road) in unincorporated Whiteside County, Illinois. The proposed facility is the Prairie Hill Recycling and Disposal Facility ("Prairie Hill RDF").

The Prairie Hill RDF is located on a site consisting of approximately 423 acres. It includes development of a 229 acre solid waste disposal area or landfill footprint as well as support features, including an administrative building, maintenance and operations facility, recycling area, public drop-off area, and landscape waste transfer station.

The Application evaluates and assesses the nine criteria set forth in Section 39.2(a) of the Illinois Environmental Protection Act (Ill.Rev.Stat. ch. 111½, ¶1001, et seq.).

PUBLIC HEARING

Pursuant to Section 39.2(d) of the Act, a public hearing was held by the Public Works Committee of the Whiteside County Board on July 30-31, 1992 in the offices of the Whiteside County Farm Bureau, 100 East Knox Street, Morrison, Illinois. WMII presented the testimony of seven expert witnesses to address the nine statutory criteria. Cross-examination of these witnesses was permitted and conducted by members of the Public Works Committee and members of the general public.

Whiteside County presented testimony from one expert witness, who also addressed the statutory criteria.

The Citizens Against Regional Landfills ("CARL") presented testimony from various lay witnesses. Members of the public also testified or were allowed to provide public comment. Cross-examination of those who testified for the County, the CARL group and from the general public was permitted and conducted by the Public Works Committee, WMII and the general public.

Various exhibits were offered and admitted into evidence, including the Application, which was designated as Hearing Officer Exhibit No. 2.

Numerous written comments were filed within the thirty (30) day written comment period following the last day of the hearings on July 31, 1992.

JURISDICTION

Pursuant to Section 39.2(b) of the Act, WMII furnished proof of having served the requisite property owners and members of the General Assembly with notice of its intent to file the Application. WMII also furnished proof that it published such notice in a newspaper of general circulation in Whiteside County.

Pursuant to Section 39.2(d) of the Act, the County arranged for notice of the public hearing to be published in a newspaper of general circulation in Whiteside County. The County served notice of the public hearing by certified mail to all members of the General Assembly from the district in which the proposed site is located and to the Illinois Environmental Protection Agency ("IEPA").

The County is in receipt of, and has considered/reviewed, the jurisdictional objections raised by (a) the Citizens Against Regional Landfill (C.A.R.L.) in a document entitled "Written Submission of Citizens Against Regional Landfill for Section 39.2 Hearing," filed on the last day of the public comment period, August 31, 1992 (hereinafter called the "C.A.R.L. Submission"). The jurisdictional objections, as set forth in the "notice" section of the "C.A.R.L. Submission" include unsupported allegations of the failure of WMII to properly notify surrounding property owners, failure to include a proper legal description of the site location in notices, and the failure to have "all documents" on file with the Board for public inspection for an adequate period of time; (b) two (2) motions to dismiss for Lack of Jurisdiction filed on behalf of C.A.R.L. on the last day of public comment, August 31, 1992, alleging a failure of WMII to properly notice surrounding property owners Larry and Pamela Brackemyer and Robert and Marjorie Zuidema.

Notwithstanding the aforementioned allegations as contained in the "C.A.R.L. Submission" and the two (2) motions to dismiss, based on the record as a whole, including the public comment, the County Board finds that all the requisite notices required by Section 39.2(b) and (d) of the Act have been provided, that WMII has filed, and the County Board has made available for public inspection, the requisite materials/filings required by statute for an adequate period of time, and therefore, the County Board has jurisdiction to consider and decide the Application, and that the public hearing held on July 30-31, 1992 was in full compliance with all notice and jurisdictional requirements of Section 39.2 of the Act. The aforementioned Motions to Dismiss (2) are therefore denied. In addition, a document entitled "Application for Extension of Time to submit Written Comment" was submitted by D. Houseman, Chairman of C.A.R.L., on August 28, 1992, requesting an extension of the thirty (30) day comment period to September 15, 1992, based on the allegation that the transcripts of the July 30-31, 1992 hearing were not made available for public inspection for an adequate period of time. Based on the aforementioned, the County Board denies this application for an extension of time.

CRITERION 1

The Facility Is Necessary To Accommodate The Waste Needs of the Area It Is Intended To Serve

WMII presented Mr. Richard Carlson, a consultant and former director of the IEPA, in support of Criterion 1. Mr. Carlson's written report analyzing Criterion 1 is included in the Application.

Mr. Carlson testified that the facility is necessary to accommodate the waste needs of the area it is intended to serve. (Tr. at 339). Mr. Carlson stated that based upon the life expectancy calculations for landfills within the proposed service area, there would be no landfill capacity remaining within the service area by the end of 1996. (Tr. at 340). Based upon the fact that it would take approximately three (3) years to permit and construct the new facility, there is clearly a need for the proposed landfill. (Tr. at 340-41). In addition, Mr. Carlson testified that the current landscape waste processing area at the existing Whiteside County landfill will close when that landfill closes on September 18, 1992. Therefore, there will be a need for the proposed landscape waste transfer station. (Tr. at 341).

No testimony or evidence was presented at the hearing which controverted or refuted Mr. Carlson's findings or conclusions.

It is well established that the proposed facility need not be shown to be absolutely necessary. A.R.F. Landfill, Inc. v. Pollution Control Board, 174 Ill. App. 3d 82, 528 N.E. 2d 390 (2d Dist. 1988). WMII must demonstrate that the proposed facility is reasonably required by the waste needs of the intended service area, including consideration of the area's waste production and disposal capabilities. Waste Management of Illinois, Inc. v. Pollution Control Board, 123 Ill. App. 3d 1075, 463 N.E. 2d 969 (2d Dist. 1984). The County Board has considered the record as a whole, and in particular the arguments raised by C.A.R.L. in the "C.A.R.L. Submission", Section I, regarding Criterion 1. Notwithstanding the "C.A.R.L. Submission, Section 1 arguments, and based on the evidence presented, the record as a whole, and the aforementioned legal standards, the County Board finds that WMII has met its burden of proving that the proposed facility is necessary to accommodate the waste needs of the area it is intended to serve.

Criterion 2

The Facility Is So Designed, Located And Proposed To Be Operated That The

Public Health, Safety and Welfare Will Be Protected

WMII presented three witnesses in support of Criterion 2. These witnesses were Mr. Martin N. Sara, a hydrogeologist, concerning the suitability of the proposed site; Mr. Paul John Wintheiser, a civil engineer, concerning the design of the proposed facility; and Mr. James Nold, concerning the operation of the proposed facility. The written reports describing and analyzing the location, design and operation of the proposed facility are included in the Application.

Mr. Gerald DeMers, P.E., a consultant retained by Whiteside County to review the Application, also testified concerning the location, design and proposed operation of the facility.

Mr. Sara, Mr. Wintheiser, Mr. Nold and Mr DeMers were highly qualified and credible witnesses. Their testimony, including their factual findings and conclusions, were neither contradicted or refuted.

Mr. Sara testified that the facility is located so that the public health, safety and welfare will be protected. (Tr. at 408). He explained that the geology is very consistent and the groundwater flow patterns relatively simple across the site. (Tr. at 409). This allows the design of an effective groundwater monitoring system for both the shallow materials as well as the deep bedrock units. (Tr. at 409). He stated that the site is not within the 100 year floodplain. (Tr. at 410).

He further testified that there are sufficient materials on site to design and construct a liner, leachate collection system, daily cover and final cover for the facility. (Tr. at 410-411). Finally, he testified that one of the features that makes the site particularly suitable is the fact that it is easily monitorable. (Tr. at 412).

Mr. Wintheiser described the principal features of the landfill design as follows: (1) composite liner system for the base and sidewalls of the disposal area, consisting of four feet of compacted clay and a 60 mil. HDPE geomembrane; (2) Six foot thick final cover; (3) leachate collection and management system; (4) gas monitoring and management system; (5) surface water management plan; and (6) groundwater monitoring system. (Tr. at 511-524).

Mr. Wintheiser stated that the design of the proposed facility will protect the public health, safety and welfare. He explained that the cover liner prevents precipitation from

getting into the landfill. The base liner prevents leachate from getting out of the landfill. The leachate collection system collects the liquid which is in the landfill and removes it before it could move off-site or underground. The gas monitoring and management system will collect gas which will be generated. The surface water management system addresses both off-site run-on and on-site run-off. (Tr. at 525-526).

Mr. Nold testified that the proposed operation will protect the public health, safety and welfare. (Tr. at 652). Mr. Nold described the policies and procedures used in operating a WMII landfill. (Tr. at 635). He stated that the proposed facility will have controlled access by security fence and a locked gate. (Tr. at 636). No hazardous or special waste will be accepted at the facility. (Tr. at 638-639). Four video cameras take pictures of the waste as it comes into the site. They are positioned at different angles to photograph the trucks coming and going, and to record the driver at the gate itself. Pictures are taken of the type of truck, the name on the side of the truck, license plate of the vehicle, and the type of waste delivered. (Tr. at 640). A written record is kept of each delivery. (Tr. at 641). The person operating the gate is trained to recognize WMII customers, the type of waste they ordinarily bring in, and the type of waste the facility can accept. (Tr. at 641).

Waste is then directed to the active area of the landfill. (Tr. at 642-43). At the active area, trained spotters direct the waste as to where it should go. (Tr. at 643). The spotters and operators conduct a visual check of each load of waste as it comes in the gate, reaches the active area and is dumped on the ground to determine whether it can be accepted. (Tr. at 643).

Once it is determined that the waste is acceptable, it is spread out and compacted into as thin a layer as possible. (Tr. at 644). Once the waste is compacted, it is then covered daily, or throughout the day, as necessary. (Tr. at 644). It is covered with a minimum of six inches (6") of soil. (Tr. at 644-45).

Concerns such as litter, odor, and vectors are controlled by properly compacting and covering the waste promptly. (Tr. at 645). Further steps are taken to control litter by positioning the active area away from wind direction, positioning temporary berms around the active area to direct the wind over the top of it and by positioning wind screens around the active area. (Tr. at 645). Dust, during any dry periods, is controlled primarily through

the use of a water truck, which is part of the standard equipment at WMII facilities. (Tr. at 646).

Mr. DeMers testified that the facility is designed, located and proposed to be operated to protect the public health, safety and welfare. (Tr. at 692-93). Mr. DeMers stated that the design not only meets but exceeds the applicable State of Illinois requirements. (Tr. at 692). He identified the liner, leachate collection system, the cover and the gas control system as the most important design features establishing that Criterion 2 has been satisfied. (Tr. at 692). In addition, Mr. DeMers recommended that certain conditions be placed on any local siting approval given by Whiteside County. (Tr. at 699-704).

The County Board has considered the record as a whole, and in particular the arguments raised by C.A.R.L. in the "C.A.R.L. Submission", Section II, regarding Criterion 2.

Notwithstanding the "C.A.R.L. Submission," Section II arguments, based upon the testimony and evidence presented with respect to Criterion 2, the record as a whole, the County Board finds that the proposed facility will be designed, located and proposed to be operated so that the public health, safety and welfare will be protected, provided the conditions which are set forth in the Section of these Findings of Fact and Decisions entitled "Conditions for Approval" are followed.

Criterion 3

The Facility Is Located So As To Minimize Incompatibility With The Character Of The Surrounding Area And To Minimize The Effect On The Value Of Surrounding Property

WMII presented two witnesses who addressed Criterion 2: J. Christopher Lannert, a professional landscape architect and urban planner, and William McCann, a professional real estate appraiser and land use and zoning consultant. Their written reports are included in the Application.

Mr. Lannert stated that the proposed facility is located in a low-density, agricultural area. (Tr. at 46-47, 62). Mr. Lannert testified that the facility is located so as to minimize

any incompatibility with the character of the surrounding area. (Tr. at 62). He stated that the reasons for his conclusions were the location of the landfill within an agricultural area, the ability to accomplish an achievable end-use plan, the design of the entry features to protect or screen views from the roadway, the design of the final contour as an undulating landform consistent with the gently rolling topography in the area, and the various screening features and berms. (Tr. at 55-59, 62-63).

Mr. McCann testified regarding compatibility as well as the property value aspect of Criterion 3. He testified that the location of the proposed landfill is in agricultural area, generally removed from residential development. (Tr. at 195). He concluded that the proposed facility would be consistent with both the nature and intensity of uses of the existing landfill, and is not inconsistent or incompatible with the proximate agricultural uses that exist within the vicinity. (Tr. at 196). In addition, the choice of a sparsely developed area in an area where landfilling has been present for over 23 years, insures minimal impact with respect to compatibility with the character of the surrounding area. (Tr. at 196-197).

Mr. McCann also testified that the location of the proposed facility will minimize any effect on the value of surrounding property. (Tr. at 201). Mr. McCann based his conclusion on numerous studies he has performed around numerous landfills, including the existing County landfill. (Tr. at 198). These studies have consistently shown that the presence of landfill facilities has not deterred further development or been shown to have any discernable monetary impact on the value of surrounding property. (Tr. at 198, 201).

The County Board has considered the record as a whole, and in particular, the arguments presented by C.A.R.L. in the "C.A.R.L. Submission," Section III, regarding Criterion 3, the evidence presented by Mr. Lannert and Mr. McCann, and the lack of credible or relevant evidence to the contrary and accordingly the County Board finds that the proposed facility is located so as to minimize incompatibility with the character of the surrounding area and to minimize the effect on the value of surrounding property.

Criterion 4

The Facility Is Located Outside The Boundary Of The 100-Year Floodplain

Mr. Sara (Tr. at 410) and Mr. DeMers (Tr. at 698) testified that the facility is located outside the boundary of the 100-year floodplain. There being no contrary evidence, the County Board finds that Criterion 4 has been satisfied.

Criterion 5

The Plan of Operations For the Facility Is Designed to Minimize Danger To The Surrounding Area From Fires, Spills And Other Operational Accidents

Mr. Nold and Mr. DeMers testified with respect to Criterion 5. The written reports regarding operational plans, policies and procedures are included in the Application.

Mr. Nold described the specific day-to-day operating practices that will minimize the danger of any fires, spills or operational accidents. (Tr. at 648-652). He concluded that the plan of operations will minimize any potential danger to the surrounding area for fires, spills or other operational accidents. (Tr. at 653). Mr. DeMers testified as to the same conclusion. (Tr. at 693).

The County Board has considered the record as a whole, and in particular, the arguments presented by C.A.R.L. in the "C.A.R.L. Submission," Section V, regarding Criterion 5, the evidence presented by Mr. Nold and Mr. DeMers, and the lack of credible or relevant evidence to the contrary, and accordingly, the County Board finds that WMII's plan of operations is designed to minimize the danger to the surrounding area from fires, spills, or operational accidents.

Criterion 6

Traffic Patterns To And From The Facility Are So Designed As To Minimize the Impact On Existing Traffic Flows

WMII presented one witness to address Criterion 6. Mr. David B. Miller, a professional traffic engineer, testified concerning his report which is included in the Application.

Mr. Miller testified that the traffic patterns to and from the facility have been

designed so as to minimize any impact on existing traffic flows. (Tr. at 67). Mr. Miller stated that site volumes generated by the proposed facility are very low; that the peak hours of the facility do not correspond to the peak hours of U.S. 30; that U.S. 30 in the vicinity of this site is operating at approximately 20% of its capacity, and that U.S. 30 is therefore more than adequate to accommodate the additional traffic to be generated by the facility; that the site design and access from both a sight distance and a geometric standpoint is very good; and that the internal circulation and parking is more than adequate to accommodate site traffic. (Tr. at 260, 267-268).

The County Board has considered the record as a whole, and in particular, the arguments raised by C.A.R.L. in the "C.A.R.L. Submission," Section VI, regarding Criterion 6, the evidence presented by Mr. Miller and the written comment submitted on August 26, 1992 by the Whiteside County Engineer regarding Route 30 capacity, the lack of any credible or relevant evidence to the contrary, and accordingly, the County Board finds that the traffic patterns to or from the facility are so designed as to minimize the impact on existing traffic flows.

Criterion 7

If The Facility Will Be Treating, Storing Or Disposing of Hazardous Waste, Whether An Emergency Response Plan Exists For The Facility Which Includes Notification, Containment And Evacuation Procedure To Be Used in Case Of An Accidental Release

According to the Application, the proposed landfill will not treat, store or dispose of hazardous wastes. Therefore, this Criterion does not apply and WMII need not show compliance with it. Moreover, provided the conditions that are set forth in Paragraphs 1 through 4 of these Findings of Fact entitled "Conditions For Approval" are followed, no hazardous waste will be treated, stored, or disposed of at the facility.

Criterion 8

If Facility Is To Be Located In A
County Where The County Board Has
Adopted A Solid Waste Management Plan,
The Facility Is Consistent With That Plan

Two witnesses testified concerning Criterion 8: Mr. Lannert and Mr. DeMers. No contrary testimony or evidence was presented on this Criterion.

Mr. Lannert testified that the proposed facility is consistent with the Whiteside County Solid Waste Plan. (Tr. at 63-64). Mr. Lannert stated that the Plan calls for the acquisition of a new landfill, as well as recycling efforts. The proposed facility would accomplish both. The Plan also encourages transfer stations. The proposed facility includes a landscape waste transfer station. The Plan calls for operation of the facility by professional management, which WMII could clearly provide. (Tr. at 63-64).

Mr. DeMers also concluded that the proposed facility is consistent with the Plan. (Tr. at 138). The County Board finds that the application is consistent with the Whiteside County Solid Waste Plan, and concludes that WMII has met its burden with respect to Criterion 8.

Criterion 9

If The Facility Will Be Located
Within A Regulation Recharge Area
Any Applicable Requirements Specified
By The Board For Such Areas Have Been Met

The Application states that no regulated recharge areas have been designated in the State of Illinois. Therefore, the County Board finds that the proposed facility is not located within a regulated recharge area, and Criterion 9 has been satisfied.

Miscellaneous

The County Board has considered the record as a whole, and in particular, the testimony, evidence, and public comment documents which include, but are not limited to, the following publications:

- Waste Management, Inc.: Encyclopedia of Environmental Crimes and Other Misdeeds, Greenpeace Report, Third Edition, Dec. 1991.
- Waste Management, Inc. A Commentary on the 1992 Greenpeace Report, June, 1992.
- San Diego County District Attorney Final Report on Waste Management, San Diego District Attorney's Office.
- A Critical Analysis of the San Diego County District Attorney's Final Report, by O'Melveny & Meyers, Los Angeles, CA, 1992.

and pursuant to the County Board's authority under Section 39.2(a) to consider WMII's previous operating experience and past record of convictions or admissions of violations in the field of solid waste management when considering Criteria 2 and 5, and accordingly, the County Board finds that WMII has met all nine (9) Criteria under Section 39.2.

CONDITIONS FOR APPROVAL

WMII shall abide by the following conditions in constructing and operating the proposed facility:

1. No bulk liquid shall be disposed of at the facility.
2. No hazardous waste shall be treated, stored or disposed of at the facility.
3. No radioactive waste, hazardous hospital wastes or asbestos shall be disposed.
4. No special wastes shall be accepted for disposal at the facility.
5. WMII shall furnish to the County on or before February 1st of each calendar year in which a landfill is operated on the site, an inspection report by an engineer duly registered to practice in the State of Illinois stating that the landfill is operating in substantial compliance with all rules and regulations applicable thereto.
6. Whiteside County shall hire a qualified independent company to inspect construction of the new landfill (i.e., its liner). The cost of this inspection shall be reimbursed to the County by WMII up to a maximum of ten thousand dollars ($10,000).
7. In the event a landfill is operated on the site, nothing herein shall be (1) construed to make the County a partner, joint venturer, or agent, or (2) to create any other

legal relationship which would impose upon the County liabilities or obligations resulting from the operation of such a landfill. WMII, its successors or assigns, shall indemnify and hold the County harmless from any claim, demand, suit or other action taken against the County as a result of the operation of the landfill.

8. The County shall have the right to make all reasonable inspections of the development plans, construction and operation of the landfill. Such inspection shall be to verify that the development plans, construction and operation are in accordance with all plans submitted to the County and the IEPA, and that all operations are according to applicable law.

WMII shall bear all reasonable expenses of such inspections. The County agrees that the engineer doing such inspections on behalf of the County shall also be available to WMII to certify to IEPA that the operations and construction are in compliance with all applicable plans and law on behalf of WMII.

9. WMII, its successors and assigns, shall warrant to the County that it will attempt in good faith to comply with all Federal and State laws regulating the operation of the landfill.

Done 10. WMII shall establish a Property Value Assurance Program in such form as is attached hereto and made a part hereof as Affirmative Statement Exhibit A for residential properties and commercial businesses currently located within one-half mile of the landfill boundary.

11.. Under Chapter 111½ par. 1004(r) of the Illinois Environmental Protection Act, the Agency may delegate its oversight/enforcement responsibility for all solid waste facilities within the County through an IEPA Delegation Agreement (hereinafter called "the Delegation Agreement").

To provide a means to oversee the daily operations of the solid waste disposal facility, and to provide sufficient authority for the "Delegated Body" (hereinafter called"the Delegee") to remedy problems which may occur at the facility through the above authority, WMII shall agree to the following elements of oversight and operational control:

A. All data regarding waste types and volumes accepted, origin of wastes, airspace consumption, surface water, ground water (i.e., offer to split samples), gas and leachate monitoring results, recycling or composting activities (i.e., waste diversion results),

any statistical data on the overall performance of the site, and any reports of accidents shall be provided to the Delegee on a quarterly basis, or however frequently the information is generated.

B. Site visits and inspections without prior notice by the Delegee's designated, duly constituted employees or agents shall be permitted at any time. Inspections and/or visits shall be consistent with IEPA's delegation agreement, as amended from time to time. Designated safety procedures at the landfill shall be followed.

C. All information and data provided to the Delegee under subparagraphs A and B above shall be submitted as summary quarterly reports with necessary supporting documents, and will be available for public inspection during normal business hours at the County Clerk's office. The report format should be consistent with the Delegee's needs.

D. All complaints shall be made to the Delegee. The Delegee shall investigate each complaint and provide written documentation and description of findings. Violations will be cited and time lines given for compliance in accordance with the IEPA delegation agreement. All such records will be available, consistent with the Delegation Agreement and the pertinent law of the State of Illinois, for public inspection.

If a Delegation Agreement is not entered into by the County and the IEPA, WMII agrees to comply with the provisions of Subparagraphs A, B, C, D above.

12. A Landfill Oversight Committee will be formed to meet on an as-needed basis with the operations manager of the landfill. Members of this Committee who shall be appointed by the County Board will consist of one Public Works Committee Member, one representative of the municipalities in the County, one representative of the Health Department, one representative of the County Administrator's office, and three nearby residents. Nearby residents must live within two miles of the site or along the Highway 30 corridor east of the site. The Committee shall report to the Public Works Committee and/or the County Board.

13. WMII will in good faith operate the waste disposal facility so as to assist the County in processing and diverting from the facility a minimum of twenty-five percent (25%) of the total county waste stream.

14. WMII shall establish an on-site ground-water and surface-water monitoring program which shall be consistent with all of the existing IEPA requirements for non-

hazardous waste disposal facilities. In addition, the program shall be consistent with the monitoring requirements of the Illinois Pollution Control Board (IPCB) Sections 811.318 through 811.320 (August 17, 1990).

15. WMII agrees that public and private wells within one-half mile or such greater distance if provided by law of the facility property boundary should have background testing by an independent laboratory prior to the construction of the landfill. Background testing of wells should commence prior to construction at the site, and continue for four consecutive quarterly samples. Analytical parameters should include the Priority Pollutant List (13 metals, 111 organic chemicals, cyanide and asbestos) and any additional parameters on the IEPA listing for Background Initial Water Quality Testing for the first of the quarterly samples. The remaining three sampling events should include analyses for those parameters established as IPCB public water or food processing supply standards. Testing is contingent upon consent of any well owner. The results of testing shall be provided to the well owner. Cost of testing shall be borne by WMII. This provision applies to wells in existence as of the date of this decision.

All wells that have had background testing shall be sampled annually during the operation of the landfill and post-closure care. Ground-water samples shall be analyzed for those parameters established as IPCB public water or food processing supply standards. Ground water should also be analyzed for any Priority Pollutants that had been detected during background sampling. Results of testing shall be provided to the well owner. Testing is contingent on consent of the well owner. Cost of testing shall be borne by WMII. This condition applies to wells in existence at the time that the site is approved by the Whiteside County Board.

If drinking water wells within one-half mile of the facility property boundary are arguably shown, pursuant to IPCB rules entitled "Groundwater Quality Standards" Section 811.320, August 17, 1990,. to be contaminated as a result of the landfill, the Company will supply water to affected parties. Both temporary and permanent remedies will be implemented for contaminated wells. Also, if any public water well of the City of Morrison and Village of Round Grove is found to be contaminated as above stated, WMII shall, at its own cost and expense, replace said well as the City and County shall so determine.

16. Following closure of the site, the area shall be used as "open space" including wetlands.

17. WMII will comply with all applicable requirements of the Illinois Pollution Control Board (35 Ill. Adm. Code Parts 811 and 812) and of the U.S. EPA (40 CFR Part 258) regarding closure, post-closure care and financial assurance for these activities.

18. Ground-water monitoring results and waste totals shall be provided to the County on at least a quarterly basis. The County shall designate the recipient of this information.

19. Official correspondence between the Illinois Environmental Protection Agency, other federal or state agencies, and WMII of Illinois regarding this site shall be provided to the County in a timely manner. The County shall designate the recipient of this information.

20. WMII shall not increase the service area of the proposed site.

21. Quarterly ground-water samples should be analyzed for total organic halogens in addition to the parameters listed in the application.

22. Any changes to the design or plan of operation of the proposed facility shall be submitted to Whiteside County for review. Changes to design or plan of operation that are dictated by the Illinois Environmental Protection Agency shall not require approval of the Whiteside County Board. Any changes which would adversely affect the closure or remediation of the existing County Landfill would require approval of the Whiteside County Board.

23. Absent road conditions, detours, and other compelling circumstances, all company transfer trailers transporting out-of-county wastes to the site shall travel on Interstate 88 west to the Highway 30 exit (to Clinton, Iowa) located approximately 6 miles west of Rock Falls. All company transfer trailers shall be covered.

24. WMII shall possess a legal option to acquire the fee simple title to the real estate described in the siting application presently held by private parties or entities.

25. The site shall be designed and operated in general accordance with Illinois EPA permit requirements. The County will be allowed to monitor any and all operations, including the development/construction phase of the site.

26. A Geiger Counter shall be used at the gate to detect radioactive loads.

27. WMII shall operate and construct the proposed site, including closure and post closure periods, pursuant to the provisions of its Prairie Hill "application for site location approval for a non-hazardous solid waste management site," Vols. I-III, and the testimony of its witnesses and statement of its attorneys and representatives as reflected in the record of the siting hearing of July 30-31, 1992. The aforementioned application and record are attached hereto and incorporated herein as Exhibit B and Exhibit C, respectively.

28. To the extent that the language or provisions of this decision are inconsistent or in conflict with the agreement of march 19, 1992 between WMII and County, as amended thereafter on June 16, 1992, ("the Agreement), or addresses issues not expressly and/or fully covered in the Agreement, the language and intent of this decision as reflected in this document supersedes and controls the Agreement. The aforementioned Agreement, as amended, is attached hereto and incorporated herein as Exhibit D.

29. WMII will guarantee operation and life of site for a minimum of twenty (20) years. During the period of operation, WMII guarantees a minimum out of county tonnage of 301,200 tons per year. WMII further agrees that the "out of county rate" that is the basis of WMII's annual royalty payment to the County, which is set forth in Paragraph 11(b) of the Agreement, shall be based on competitive disposal rates charged at other WMII landfills located in Northeastern, Illinois, taking in consideration the proximity and transportation costs from the service area to the site.

30. Absent a rate adjustment made pursuant to Paragraph 5 of the Agreement, WMII guarantees the "in county" disposal rate of $5.50 per cubic yard for twenty (20) years or the life of site, whichever is greater.

31. WMII agrees to amend Paragraph 9(c) of the Agreement to the following: The general liability limits are increased to not less than $5,000,000 per occurrence and a combined limit of $10,000,000 in aggregate. The County is to be a named insured.

32. WMII agrees to amend Paragraph 9(c) of the Agreement to the following: The sum of the performance bond/principal is increased to $2,000,000 with the County as the named insured.

33. WMII agrees to amend Paragraph 10 of the Agreement to include the following: WMII agrees to defend, indemnify, and hold harmless the County, its officials,

employees, agents, from and against any and all claims, liabilities, relating to any required cleanup or remediation of the site arising out of any act or omission of the County, its officials, employees, agents.

34. WMII agrees to amend Paragraph 11(b) & 19 of the Agreement as follows: WMII agrees, for a period of three (3) years from the date of operation of the site, to limit the average tons per day to a maximum of 2,000 tons per day. This tonnage restriction will be reviewed by the County and WMII after this three (3) year period has elapsed.

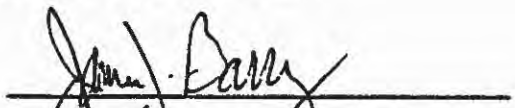
35. WMII agrees to amend Paragraphs 19 (a), (b), (c), to state: "(a) Substantially prevents or impairs the construction, or operation of the landfill by WMII; or (b) Substantially restricts the right of the landfill to accept or reject municipal solid waste on any basis, including, but not limited to, its place of origin; or (c) Substantially interferes with WMII's sole design construction and/or operational control of the landfill."

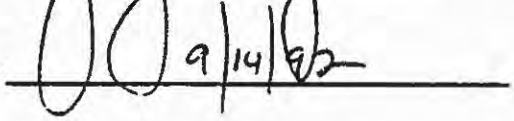
36. WMII agrees to explore and use reasonable efforts to assist the County in obtaining guaranteed, private sources of remediation funding up to a maximum of ten million dollars ($10,000,000). These sources of private funding include, but are not limited to, letters of credit, bonding, insurance, etc.. This funding is contingent upon the development by the County of additional guaranteed revenue sources for the benefit of WMII, commensurate with the level of funding.

37. Whiteside County shall hire an inspector to observe landfill and yardwaste transfer station operations after the site's operating permit is issued. The purpose of this inspection is to provide additional assurance that no waste as set forth in paragraphs 1-4 therein will be disposed in the landfill. The cost of this inspection shall be reimbursed to the County by WMII but shall not exceed $36,000 per year.

NOW, THEREFORE, the County Board finds that WMII has met is burden of proof with respect to Criteria 1 through 9, which are set forth in Ill. Rev. Stat. Ch. 111½, ¶1039.2(a), provided that WMII agrees to and follows the foregoing conditions.

Foregoing Conditions
Approved By Waste
Management of Illinois, Inc.

By: 

Date 

Attest:

By: _____

EXHIBIT B

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829

BRUCE RAUNER, GOVERNOR LISA BONNETT, DIRECTOR

217/524-3301

August 12, 2015

Certified Mail
7013 2630 0001 4705 3824
7013 2630 0001 4705 3831

The County of Whiteside
Attn: Russ Renner
18819 Lincoln Road
Morrison, Illinois 61270-9587

Waste Management of Illinois, Inc.
Attn: Mike Wiersema
18762 Lincoln Road
Morrison, Illinois 61270-9587

Re: 1950350014 -- Whiteside County
Prairie Hill RDF
Permit No. 1994-579-LF
Modification No. 87
Log Nos. 2015-229, 2015-354
Expiration Date: July 15, 2015
Permit Landfill 811 File
Permit Approval

Dear Mr. Renner and Mr. Wiersema:

Permit has been granted to the County of Whiteside as owner and Waste Management of Illinois, Inc., as operator, approving development of new municipal solid waste landfill all in accordance with the application and plans provided in Application Log No. 1994-579, specifications, application, and supporting documents, as submitted and approved, shall constitute part of this permit and are identified in the records of the Illinois Environmental Protection Agency (Illinois EPA), Bureau of Land, Division of Land Pollution Control by the permit number and log number designated in the heading above.

Permit No. 1994-579-LF, issued on July 10, 1995, approved the development of a new putrescible waste landfill unit pursuant to 35 Ill. Adm. Code Subtitle G Chapter I Subchapter i Parts 811, 812, and 813. This 813 landfill is designed to handle municipal solid waste and non-hazardous special waste, with a disposal area of approximately 229 acres and will have a final peak elevation of 877 feet above mean sea level with an estimated air space capacity (excluding final cover) of 28,300,000 cubic yards. This should provide for the disposal of an estimated 49,800,000 gate yards. Additionally, Permit No. 1994-579-LF approved:

A. The Significant Modification of the development and operation of this landfill so as to comply with the applicable requirements of Title 35, Illinois Administrative Code (hereinafter 35 IAC), Subtitle G, Parts 811 and 812, pursuant to 35 IAC, Sections 813.101;

B. Transfer of landscape waste and recyclables; and

C. Acceptance of special waste streams without individual special waste stream authorizations, in accordance with the special conditions listed in Part III of this permit.

Note: Modification No. 25 to Permit No. 1994-579-LF reduced the disposal area from approximately 229 acres to approximately 226.6 acres. This reduction in disposal area is due to redesign of the landfill proposed in application Log No. 2001-229 and approved in Modification No. 25.

Modification No. 87 is hereby granted to the County of Whiteside as owner and Waste Management of Illinois, Inc. as operator, allowing modification of an existing municipal solid waste landfill all in accordance with application Log Nos. 2015-229, prepared, sealed, and signed on May 15, 2015, by Bernadette G. Sarmiento, P.E.; and 2015-354, prepared by Christopher G. Rubak, P.E., and sealed, and signed on July 13, 2015, by Ms. Sarmiento, both of Waste Management of Illinois, Inc.

The permit applications approved by Modification No. 87 consist of the following documents:

DOCUMENT	DATED	DATE RECEIVED
Original Application Log No. 2015-229	May 15, 2015	May 18, 2015
Original Application Log No. 2015-354	July 13, 2015	July 14, 2015
Addendum	July 30, 2015	July 31, 2015

Modification No. 87 to Permit No. 1994-579-LF approves:

A. The revised intrawell AGQS values for well G1K8 (Log No. 2015-229); and

B. The disposal of non-hazardous special waste at Prairie Hill RDF (Log No. 2015-354).

Except for the differences described in the table below, the special conditions in Modification No. 87 to Permit No. 1994-579-LF are identical to the special conditions in Modification No. 86, issued June 3, 2015.

Special Condition No. / Attachment No. in Modification 86	Special Condition No. / Attachment No. in Modification No. 87	Description of Revision
None	Section III	Added conditions for the acceptance of special waste.
Sections III-VIII	Sections IV-IX	Renumbered.
III.7	IV.7	Revised due date in last paragraph.

Special Condition No. / Attachment No. in Modification 86	Special Condition No. / Attachment No. in Modification No. 87	Description of Revision
IV.4	V.4	Corrected referenced Condition No.
V.3	VI.3	Corrected referenced Condition No.
V.10	VI.10	Corrected referenced Condition Nos.
V.13 (a), (b), (c)	VI.13 (a), (b), (c)	Corrected referenced Condition Nos.
V.22	VI.22	Corrected referenced Condition Nos.
V.24	VI.24	Corrected referenced Condition No.
VI.11	VII.11	Corrected referenced Condition Nos.
VI.13	VII.13	Corrected referenced Condition No.
Attachment 2	Attachment 2	Changed intrawell AGQS values in the permit.

Pursuant to Section 39(a) of Illinois Environmental Protection Act (Act) [415 ILCS 5/39(a)] and 35 Ill. Adm. Code, 813.104(b), this permit is issued subject to the development, operating and reporting requirements for non-hazardous waste landfills in 35 Ill. Adm. Code, Parts 810, 811, 812, 813 and 814 the standard conditions attached hereto, and the following special conditions. In case of conflict between the permit application and these conditions (both standard and special), the conditions of this permit shall govern.

I. CONSTRUCTION QUALITY ASSURANCE

1. All necessary surface drainage control facilities shall be constructed prior to other disturbance in any area.

2. No part of the new unit shall be placed into service until a acceptance report for all the activities listed below has been submitted to and approved by the Illinois EPA as a significant modification pursuant to 35 Ill. Adm. Code, 811.505(d) and 813.203. A separate significant modification for operating authorization will be required for each additional area/structure constructed.

   a. Compaction of the subgrade and foundation to design parameters;

   b. Installation of the compacted earth liner;

   c. Installation of a geomembrane;

   d. Installation of the leachate drainage, collection and management systems;

   e. Application of final cover;

   f. Installation of gas control facilities; and

   g. Construction of ponds, ditches, lagoons and berms.

3. The permittee shall designate an independent third party contractor as the Construction Quality Assurance (CQA) Officer(s). The CQA Officer(s) shall be an Illinois Certified Professional Engineer who is independent from and not under the control or influence of the operator, any employee of the operator, or any other corporation, company or legal entity that is a subsidiary, affiliate, parent corporation or holding corporation associated with the operator.

4. Except as provided below, the CQA Officer(s) designated pursuant to Condition I.3 shall personally be present during all construction and testing that is subject to CQA certification pursuant to 35 Ill. Adm. Code 811.503(a). If the CQA Officer(s) is unable to be present as required, then a written explanation and signed statement must be provided pursuant to 35 Ill. Adm. Code 811.503(b).

5. The clay portion of the liner shall be tested for density and moisture content at the rate of five tests per lift per acre.

6. If the clay portion of the liner has been exposed to freezing conditions, it must be retested pursuant to 35 Ill. Adm. Code 811.321(b)(4) at the rate of one laboratory permeability test on an undisturbed sample per acre. The designated CQA officer(s) shall then certify that the clay portion of the liner and all necessary repairs to the geomembrane and leachate drainage layer meet the required design standards. This certification must be provided to the Illinois EPA prior to disposal of waste on the subject portion of the liner. If operating authorization has not yet been issued for that area, the recertification shall be included in the application for Significant Modification of Permit to Obtain Operating Authorization for that area.

7. The CQA Officer's acceptance report for each area proposed for operating authorization shall include a certification that a temporary leachate containment/stormwater diversion berm has been constructed around the perimeter of the area proposed for operation. The berm shall be a minimum of four (4) feet in height and be placed as required to prevent leachate accumulations from flowing into the stormwater drainage and control system and prevent stormwater from flowing into the leachate collection system.

8. Applications for operating authorization shall not be made for areas of less than 1.5 acre increments.

9. All standards for testing the characteristics and performance of materials, products, systems and services shall be those established by the American Society for Testing and Materials (ASTM) unless otherwise stated in the permit application.

10. Pursuant to 35 Ill. Adm. Code, Section 811.505(d), upon completion of construction of each major phase, the CQA Officer(s) shall submit an acceptance

report to the Illinois EPA. The acceptance report shall be submitted before the structure is placed into service and shall contain the following:

a. A certification by the CQA Officer(s) that the construction has been prepared and constructed in accordance with the engineering design;

b. As-built drawings; and

c. All daily summary reports.

11. The incremental development procedure described in Application Log No. 1997-432 is hereby approved. The following procedure may be used for the completion of the drainage layer and associated filter over a sidewall liner that does not include geosynthetic clay liner and for which a significant modification to operate has been obtained.

a. The operator shall maintain a minimum "freeboard" of one (1) foot between the top edge of the drainage layer the waste.

b. Just prior to installing an increment of the drainage layer, the sidewall liner in that area shall be inspected. Any areas damaged shall be reconstructed in accordance with the Construction Quality Assurance program approved by this permit.

c. After each increment of the drainage layer and filter up the sidewall is completed, the operator shall provide written notification and documentation of its completion to the Illinois EPA's Rockford Regional Office. Upon receipt of the notification, the inspector shall be allowed fifteen days to examine the construction. The Illinois EPA is not obligated to approve the construction or certification. The operator may dispose of refuse against the new increment of drainage layer and filter after the fifteen day period if, having complied with the terms of this condition, the operator is not informed of a problem by the Illinois EPA or its agents.

d. At the same time the Rockford Regional Office or delegated government is given notification that an increment of the sidewall drainage layer and filter has been completed, the Permit Section shall be provided with the information required in an Acceptance Report pursuant to 35 Ill. Adm. Code, 811.505(d) on its construction.
(Modification No. 9 – Revised Modification No. 59)

12. All stakes and monuments marking property boundaries and the permit area shall be maintained, inspected annually and surveyed no less frequently than once in five years by a professional land surveyor. Any missing or damaged stakes or monuments discovered shall be replaced and resurveyed.

13. Effective upon issuance of Modification No. 65 (Log No. 2011-548), all testing, including conformance and seaming, of the geomembrane used shall meet the Geosynthetic Research Institute's requirements with the following exceptions: For the geomembrane used in the bottom liner, the minimum thickness must be within 5% of nominal for all samples, i.e. 60 mil liner must be at least 57 mil; and UV resistance testing is not necessary unless the geomembrane is exposed for more than 30 days.

14. The alternate liner design approved in Modification No. 59 (Log No. 2009-535) allows the incorporation of Geosynthetic Clay Liner (GCL). Table 12-4 of the CQA Plan includes conformance testing requirements for the GCL. Except for permeability, all the GCL properties listed in Table 12-4 of the CQA plan should be tested at least once for every phase of alternate liner construction by an independent third party laboratory. GCL permeability shall be tested at least once per 100,000 square feet or once per production lot whichever dictates a higher frequency by an independent third party laboratory.

15. Operating permit applications for new liners that include GCLs must demonstrate that the internal shear strength of the GCL is greater than the interface strength for GCL/clay liner and geomembrane/GCL interfaces. Both these properties are included in Table 12-4 of the CQA plan provided in the addendum dated March 17, 2010 to application Log No. 2009-535.

16. GCL used on the liner sideslopes shall have minimum peel strength of 12 lbs/inch.

17. The composite liner and leachate collection systems at this landfill consist of the following (descriptions are from top to bottom):

Option A
- 4 oz/yd^2 filter geotextile
- 1-foot thick leachate drainage layer
- 10 oz/yd^2 cushion geotextile
- 60 mil HDPE textured geomembrane
- 3-foot thick compacted clay with hydraulic conductivity no greater than 1 x 10^{-7} cm/sec.

Option B
- 4 oz/yd^2 filter geotextile
- 1-foot thick leachate drainage layer
- 10 oz/yd^2 cushion geotextile
- 60 mil HDPE textured geomembrane
- Geosynthetic Clay Liner (GCL) with hydraulic conductivity no greater than 5 x 10^{-9} cm/sec (2 layers of GCL in all leachate trenches and sumps)

- 3-foot thick compacted clay with hydraulic conductivity no greater than 1 x 10^{-5} cm/sec.

II. OPERATING CONDITIONS

1. Pursuant to 35 Ill. Adm. Code, 811.107(a) and 811.107(b), throughout the operating life of this landfill, waste shall not be placed in a manner or at a rate which results in unstable internal or external slopes or interference with construction, operation or monitoring activities.

2. The operator of this solid waste facility shall not conduct the operation in a manner which results in any of the following:

   a. refuse in standing or flowing waters;

   b. leachate flows entering waters of the State;

   c. leachate flows exiting the landfill confines (i.e., the facility boundaries established for the landfill in a permit or permits issued by the Illinois EPA);

   d. open burning of refuse in violation of Section 9 of the Environmental Protection Act;

   e. uncovered refuse remaining from any previous operating day or at the conclusion of any operating day, unless authorized by permit;

   f. failure to provide final cover within time limits established by Board regulations;

   g. acceptance of wastes without necessary permits;

   h. scavenging as defined by Board regulations;

   i. deposition of refuse in any unpermitted (i.e., without an Illinois EPA approved significant modification authorizing operation) portion of the landfill;

   j. acceptance of a special waste;

   k. failure to submit reports required by permits or Board regulations;

   l. failure to collect and contain litter from the site by the end of each operating day.

m. failure to submit any cost estimate for the site or any performance bond or other security for the site as required by Section 21.o.13 of the Illinois Environmental Protection Act.

3. Moveable, temporary fencing shall be used to prevent blowing litter when the refuse is above the natural ground line.

4. At the end of each day of operation all exposed waste shall be covered with clean soil at least six (6) inches thick or an approved alternate daily cover.

5. Geotextile fabric panels, thick degradable plastic sheets, clean construction or demolition debris and contaminated soil are approved for use as alternate daily cover materials pursuant to the plans in application Log Nos. 1994-579, 1996-101, 2001-456, 2008-373 and the conditions listed below. Use of these alternate materials shall be subject to the specific performance based criteria for each alternate daily cover materials as proposed in application Log Nos. 2001-456 and 2008-373 and to the following conditions:

   a. The operator shall keep a record when an alternate cover is used and include a description of the type of alternate cover, weather conditions and its performance. A summary of this information shall be provided with this facility's annual reports.

   b. Geotextile fabric panels and plastic sheets shall be anchored adequately to prevent the wind from damaging the integrity of the daily cover. If the material is torn during or after placement, it must be repaired immediately or the damaged area covered with six inches (6") of daily cover soil. If tires are used as weights for the alternate daily cover, they shall be altered or converted tires, in accordance with Title 35 Ill. Adm. Code Subtitle G, Part 848: Management of Used and Waste Tires.

   c. If weather or other conditions exist that adversely affect the ability of the alternate cover to prevent blowing litter, susceptibility to fire, odors, or vectors, six inches (6") of daily cover soil shall be used.

   d. If any alternate materials other than those approved by this permit are to be used, they must be approved by the Illinois EPA through the permit process pursuant to 35 Ill. Adm. Code, 811.106(b), 812.111(b) and 813.201(a).

   e. Any alternate daily cover, which has been used for daily cover, shall not be used for any other purpose (including road underlayment and erosion control) outside of the permitted waste boundaries.

f. All alternate daily covers must meet the requirements of 35 Ill. Adm. Code, 811.106(b)(1) through (4) at all times.

g. The condition of the alternate daily cover materials used as daily cover shall be inspected at the beginning of each shift to determine if its integrity or continuity has been damaged by sun exposure, wind or physical contact. If the inspection reveals that the structural integrity or continuity has been damaged or if uncovered refuse is observed in the covered areas the damaged or uncovered areas shall be repaired immediately to restore a continuous uniform cover over the waste. If any problems develop from covering the waste with a particular alternate daily cover, the use of the offending cover shall immediately cease until the cause of the problem is determined and necessary corrective action taken. A record of the inspection and subsequent corrective action taken shall be made available to the Illinois EPA personnel upon request.

h. When an alternate daily cover reaches the end of its useful life and can no longer meet the requirements of 35 Ill. Adm. Code, 811.106(b)(1) through (4), it shall be removed and/or replaced with six (6) inches of cover soil or an approved alternate daily cover.

i. If the Illinois EPA's Rockford Regional Office determines that any alternate daily cover material is not performing satisfactorily as daily cover, the operator shall cease using it as daily cover immediately upon receipt of a written notification of such determination.

6. The following conditions apply when clean construction and demolition debris is used as alternate daily cover:

a. Clean construction or demolition debris shall meet the definition from Section 3.160(b) of the Act

b. Clean construction or demolition debris shall be placed in a manner that does not leave unacceptably large voids or open passages to the waste mass.

c. A minimum thickness of six inches of clean construction or demolition debris shall be applied as alternate daily cover.

d. If the clean construction or demolition debris becomes eroded after placement, it will be repaired immediately or the damaged area will be covered with six inches of daily cover soil or an approved alternate daily cover.

e. Clean construction or demolition debris shall not be removed after use as an alternate daily cover.

f. Storage of clean construction or demolition debris for use as alternate daily cover is further subject to the following conditions:

i. Storage shall not exceed 10,000 cubic yards at any time.

ii. Storage shall occur within the landfill waste footprint and shall not exceed the permitted final waste contours.

iii. Any single stockpile shall not exceed a storage time of six (6) months. After six (6) months, the debris shall be used as alternate daily cover or disposed in the landfill.

7. The following conditions apply when contaminated soil is used as alternate daily cover:

a. Only contaminated soil that has been classified in accordance with the requirements in Section 22.48 of the Act may be used as alternate daily cover.

b. Use of contaminated soil as alternate daily cover shall be limited to areas where runoff will be collected by the leachate collection system.

c. Contaminated soil shall not be stockpiled. Excess soil beyond the amount needed at the end of the day of operation as daily cover shall be disposed in the landfill.

d. Contaminated soil with obnoxious odors shall not be used as alternate daily cover. Each load of contaminated soil to be used as alternate daily cover shall be inspected to ensure use as daily cove will not generate obnoxious odors and shall prevent the threat of fires.

e. Contaminated soil shall not be removed after use as alternate daily cover.

f. In addition to the recordkeeping requirements of Special Conditions II.5(a) and II.5(g) the operator shall keep a record of the date of use as daily cover, a description of the contaminant, generator name and number, daily cover use location and quantity used.

8. No later than 60-days after the placement of final lift of waste in any area, the area shall receive a final cover meeting the design specifications proposed in permit application Log Nos. 1994-579, 1999-052, 2001-229, 2007-105 and 2009-535.

The final cover system for the entire facility consists of the following layers from bottom of the cover to top of cover:

- 1-foot of compacted clay with hydraulic conductivity no greater than 1 x 10^{-6} cm/sec.
- 40-mil HDPE geomembrane (textured on slopes greater than 10%)
- Geocomposite drainage layer.
- 2.5-feet thick final protective cover.
- 6-inch vegetative soil layer. Compost may be used as a soil amendment in this layer. However, it must be thoroughly incorporated and shall not constitute more than fifty percent of the soil/compost mixture.

9. All waste, which is not covered within 60 days of placement of another lift of waste or final cover, shall have an intermediate cover of compacted clean soil with a minimum thickness of one (1) foot applied to it.

10. The operator shall implement the approved load checking program pursuant to 35 Ill. Adm. Code, 811.323. When dumping loads for inspection, care shall be taken to keep the waste being inspected isolated and prevent mixing or infiltrating into the landfill proper until it has been determined by the trained load checker that no prohibited wastes are present. If regulated hazardous waste or other unacceptable wastes are discovered, the Illinois EPA shall be notified no later than 5:00 p.m. the next business day after the day it is detected. The load checker shall prepare a report describing the results of each inspection. A summary of these reports shall be submitted to the Illinois EPA as part of this facility's annual report.

11. Operating hours (gate hours) are those hours during which waste may be accepted. For this facility, the operating hours shall be limited to 5.30 a.m. - 8:00 p.m., Monday through Saturday. On Sundays and major holidays this facility shall not operate.

12. The operation of this facility shall not cause a violation of the Noise Control Regulations in 35 Ill. Adm. Code Subtitle H, Section 901.

13. The use of trailer tippers as described in Application Log No. 1996-101 is hereby approved. (Modification No. 1)

14. All solid waste disposal fees paid pursuant to Section 22.15(b) and/or 22.44(b) of the Illinois Environmental Protection Act must be made on a volume basis unless an on-site certified scale is used to determine the weight basis. (Modification No. 3)

15. No waste shall be accepted for disposal unless all necessary equipment, including compactor(s), are available for use on-site when the waste is received. (Modification No. 3)

16. Management of Unauthorized Waste

a. Landscape waste found to be mixed with municipal waste will be removed the same day and transported to a facility that is operating in accordance with the Act, Title V, Section 21.

b. Lead-acid batteries will be removed the same day and transported either to a drop-off center handling such waste, or to a lead-acid battery retailer.

c. Potentially infectious medical waste (PIMW) found to be mixed with municipal waste shall be managed in accordance with 35 Ill. Adm. Code, Subtitle M.

d. Tires found to be mixed with municipal waste shall be removed and managed in accordance with 35 Ill. Adm. Code, Part 848.

e. White good components mixed with municipal waste shall be removed and managed in accordance with Section 22.28 of the Act.

f. This facility is prohibited from disposing any waste containing polychlorinated bi-phenyls (PCBs) in concentration greater than allowed, pursuant to the Toxic Substance Control Act (TSCA).

g. No liquid waste as determined by the Paint Filter Test shall be disposed unless the waste is from a household or is in a small container similar in size to that normally found in household waste and the container was designed for use other than storage. The prohibition applies to on-site generated wastes except for leachate or gas condensate that is specifically approved for recirculation into the landfill by permit. However, minor amounts of liquid resulting from precipitation (rain, sleet, hail or snow) during transport and disposal operations shall not be construed as a violation of this condition.

h. In accordance with Section 21.6 of the Act, beginning July 1, 1996, no owner or operator of a sanitary landfill shall accept liquid used oil for final disposal that is discernable in the course of prudent business operation.

i. In accordance with Subsection 95(b) of the Electronics Products Recycling and Reuse Act (415 ILCS 150), *beginning January 1, 2012, no person may knowingly cause or allow the disposal of a CED* [covered electronic device] *or any other computer, computer monitor, printer, television, electronic keyboard, facsimile machine, videocassette recorder, portable digital music player, digital video disc player, video game console, electronic mouse, scanner, digital converter box, cable receiver, satellite receiver, digital video disc recorder, or small-scale server in a sanitary*

landfill, except as may be allowed by a waiver obtained pursuant to Subsection 95(e) of the Electronics Products Recycling and Reuse Act.

j. In accordance with Section 22.54(a) of the Illinois Environmental Protection Act (415 ILCS 5/1 et seq.), beginning January 1, 2014*: No owner or operator of a sanitary landfill that is located within a 25-mile radius of a site where asphalt roofing shingles are recycled under a Beneficial Use Determination (BUD) issued by the Agency pursuant to Section 22.54 of this Act shall accept for disposal loads of whole or processed asphalt roofing shingles. Nothing in this Section [Section 22.54a] shall prohibit or restrict a sanitary landfill from accepting for disposal asphalt roofing shingles that are commingled with municipal waste, including, but not limited to, general construction or demolition debris*. A map showing the locations of the permitted, operating, non-hazardous waste landfills in Illinois with respect to the sites that have current BUD's from the Agency to recycle asphalt roofing shingles can be viewed at: http://www.arcgis.com/home/webmap/viewer.html?webmap=0647481cd5b24af4978df042ddb25b58&extent=-94.3475,36.6842,-83.7567,42.7614 .

k. After the unauthorized waste has been removed, a thorough cleanup of the affected area will be made according to the type of unauthorized waste managed. Records shall be kept for three (3) years and will be made available to the Illinois EPA.

17. Waste disposal operations shall be restricted to areas of the landfill specifically approved by the Illinois EPA for operation or granted operating authorization pursuant to 35 Ill. Adm. Code 813.203. Such areas at this landfill are presently limited to:

a. The approximately 6.5 acres of Cell 1, Phase I, in accordance with the application and plans provided in Permit Application Log No. 1996-205 and approved by Modification No. 3.

b. The approximately 6.5 acres of Cell 2, Phase I, in accordance with the application and plans provided in Permit Application Log No.1996-359 and approved by Modification No. 4. This includes additional information (Sections 1-2 and 4-6) received November 18, 1996 as part of Application Log No. 1996-389.

c. The approximately 6.2 acres of Cell 1, Phase 2, in accordance with the application and plans provided in Permit Application Log No. 1998-383 and approved by Modification No. 13.

d. The approximately 6.1 acres of Cell 2, Phase 2, in accordance with the application and plans provided in Permit Application Log No. 2000-192 and approved by Modification No. 18.

e. The approximately 6.0 acres of Cell 1, Phase 3, in accordance with the application and plans provided in Permit Application Log No. 2001-332 and approved in Modification No. 22.

f. The approximately 9.4 acres of Cell 1, Phase 4, in accordance with the application and plans provided in Permit Application Log No. 2002-333 and approved in Modification No.28.

g. The approximately 6.9 acres of Cell 2, Phase 4, in accordance with the application and plans provided in Permit Application Log No. 2003-391 and approved in Modification No. 30.

h. The approximately 8.5 acres of Cell 1 South, Phase 5, in accordance with the application and plans provided in Permit Application Log No. 2005-382 and approved in Modification No. 38.

i. The approximately 9.61 acres of Cell 1 North, Phase 5, in accordance with the application and plans provided in Permit Application Log No. 2006-422 and approved in Modification No. 43.

j. The approximately 17.4 acres of Cell 2, Phase 5, in accordance with the application and plans provided in Permit Application Log No. 2007-447 and approved in Modification 49.

k. The approximately 10.5 acres of Cell 3 East, Phase 5 in accordance with application and plans provided in Permit Application Log No. 2010-331 and approved in Modification No. 57.

l. The approximately 7.1 acres of Cell 3 West, Phase 5 in accordance with application and plans provided in Permit Application Log No. 2011-373 and approved in Modification No. 64.

m. The approximately 8.8 acres of Cell 2, Phase 7, in accordance with the application and plans provided in Permit Application Log No. 2012-430 and approved in Modification No. 69.

n. The approximately 7.4 acres of Cell 1-west, Phase 7, in accordance with the application and plans provided in Permit Application Log No. 2013-360, and approved in Modification No. 76.

o. The approximately 5.2 acres of Cell 1-east, Phase 7, in accordance with the application and plans provided in Permit Application Log No. 2014-351, and approved in Modification No. 80.

18. Washing of landfill operating equipment with a low volume, high pressure washer as proposed in application Log No. 2004-047 is hereby approved, subject to the following conditions:

a. The spent spray from washing landfill operating equipment is leachate, as defined in 35 Ill. Adm. Code 810.103 and shall be managed as such; and

b. This activity shall be limited to the wash bay located within the maintenance building (Log No. 2011-441) and active disposal areas of the landfill.

19. Landscape waste (Yardwaste) transfer areas shall be operated in accordance with the following conditions (Log Nos. 2006-474 and 2011-441):

a. Landscape waste transfer areas shall be located next to the citizen drop-off area (in a roll-off box) and in the area identified as Yardwaste Pad in application Log No. 2006-474;

b. At the end of each day of operation all landscape waste stored in the roll-off box shall be covered with a water proof tarp. A permanent cover, in the form of a metal roof, shall be installed over Yardwaste Pad. Water proof tarp over the roll-off box is not required if it is placed under the metal roof. Storage shall not exceed 3-days;

c. If odors are observed, landscape waste shall be covered with a waterproof tarp and taken to a compost facility the same day the problem is identified. Alternatively, odor suppressant may be sprayed on the material to address the problem. In any case odor problems must be addressed the same day they are identified;

d. Berms shall be constructed around the landscape waste transfer area to control surface water run-off; and

e. Landscape waste shall be confined within the transfer areas identified above. This may be achieved by the use litter fencing, berms, tarps and litter pickers.

20. The storage of loaded transfer trailers at the facility is hereby approved as proposed in application Log No. 2006-398 and subject to the following conditions:

a. The loaded transfer trailers shall be stored only on the transfer trailer storage area located south of the maintenance shop and identified in the addendum dated December 15, 2006 to application Log No. 2006-398;

b. The surface of the transfer trailer storage pad shall consist of concrete or asphalt at least 6-inches thick and shall be sloped to a catch basin. The catch basin shall be equipped with a valve to close off the discharge culvert. If evidence of leaky containers or leachate is observed the catch basin valve shall remain closed and the collected liquid shall be managed as leachate;

c. The containers shall be covered with tarps at all times;

d. All the waste in the parked trailers shall be disposed at the active face of the landfill the next operating day;

e. Trailers containing odiferous loads shall be disposed the same day or at the beginning of the next operating day. Additionally, the operator shall implement odor control measures like using solid tarps to control odors from these loads;

f. No more than 30 transfer trailers shall be parked overnight;

g. The operating hours of the transfer trailer storage area is 5:00 a.m. to 10:00 p.m. Monday through Saturday. A security gate and fencing as described in application Log No. 2006-398 shall be installed to prevent any illegal dumping outside of the landfill operating hours;

h. When waste disposal operations at the landfill are suspended or cease, storage of transfer trailers loaded with waste shall be discontinued.

i. Upon completion of construction of the transfer trailer storage pad the operator shall provide a written notification of its completion to the Illinois EPA's Rockford Regional Office. Upon receipt of notification, the inspection shall be allowed fifteen working days to examine the construction. The Illinois EPA is not obligated to approve the construction or certification. The operator may begin to store waste transfer trailers on the storage pad if, the operator is not informed of a problem by the Illinois EPA or its agents; and

j. At the same time the Illinois EPA's Rockford Regional Office is given notification that the transfer trailer storage pad has been completed, the Permit Section shall be provided with the information on its construction in an Acceptance Report pursuant to 35 Ill. Adm. Code 811.505(d) on its construction.

(Modification No. 45)

21. The following recommendations for interim slope approved in Permit No. 1994-579-LF remain in effect and must be complied with:

    a. The overall maximum height of the interim slope height should not exceed 90-feet;

    b. Minimum base length required for any given slope height is 5-times the height of the interim slope.

22. Modification No. 60 to Permit No. 1994-579-LF approves a revised phasing plan as proposed in application Log No. 2011-080. Under the revised phasing plan, the filling shall progress as follows: Phase 7-West, Phase 7-East, Phase 6-West, Phase 6-East, Phase 8-Cell 1, Phase 8-Cell 2, Phase 8-Cell 3, Phase 9, and Phase 10.

23. Road building materials used to construct roads at the facility that are not solid waste may be stockpiled on-site in the amount estimated to be needed within the next construction season provided they are managed in accordance with 35 IAC, Section 811.108(c)(1).

III. SPECIAL WASTE

1. The permittee is authorized to accept non-hazardous special waste that meets the definition of industrial process waste or pollution control waste as found in Sections 3.235 and 3.335, respectively, of the Illinois Environmental Protection Act, in accordance with the following requirements:

    a. The waste is analyzed in accordance with the requirements described below and complies with the acceptance criteria in the approved waste analysis plan;

    b. The waste is delivered by an Illinois licensed special waste hauler or an exempt hauler as defined in 35 IAC, Section 809.211; and

    c. The waste is accompanied by a manifest, if required.

2. The permittee shall obtain a completed Special Waste Preacceptance Form (enclosed) and a preacceptance analysis from each generator for each waste to be accepted. In addition, the Annual Generator Special Waste and Recertification for Disposal of Special Waste form (enclosed), which certifies the waste has not changed since the last analysis, must be completed and included in the operating record. A complete laboratory analysis must be provided with the exceptions listed below.

Analysis shall be conducted using SW-846 test methods. The waste shall be reanalyzed at least every five years and must identify the actual concentration of each chemical constituent and state of each physical parameter. In all cases, a copy of the lab analysis (on lab letterhead and signed by a responsible party such as the person conducting the analysis or his/her supervisor) must be included in the operating record with the Special Waste Preacceptance Form (Profile Identification Sheet). The analysis may not be greater than one year old at the time. A new analysis is required if the composition of the waste changes (normal variations in waste composition are expected and are not included in this requirement). All waste must be analyzed as follows:

a. The permittee shall obtain the following lab analyses to determine the concentrations of the following parameters.

Paint Filter Test
Flash point
Sulfide (reactive)
Cyanide (reactive)
Phenol (total)
pH
Toxicity Characteristic Constituents

b. The permittee shall obtain analysis for reactive sulfides (H2S) and cyanides (HCN). Waste containing 250 ppm or greater reactive cyanide or 500 ppm or greater reactive sulfide is presumed to be hazardous waste pursuant to 35 IAC, Section 721.123(a)(5) unless specific information to show it does not present a danger to human health or the environment is provided. Analysis for total sulfide and/or cyanide may be substituted for reactive concentrations if they are equal to or less than 10 ppm. For wastes containing greater than 10 ppm reactive cyanide or reactive sulfide, the permittee shall not accept the waste unless the generator provides a signed and dated statement indicating the following:

i. The waste has never caused injury to a worker because of H_2S and/or HCN generation;

ii. That the OSHA work place air concentration limits for H2S and/or HCN have not been exceeded in areas where the waste is generated, stored or otherwise handled; and

iii. That air concentrations of H2S and/or HCN above 10 ppm have not been encountered in areas where the waste is generated, stored or otherwise handled.

c. The permittee shall obtain analysis for phenols. If the total phenol concentration is greater than 1000 ppm, the waste will be required to be drummed and labeled, unless justification that this precaution is not necessary is provided. The justification must demonstrate skin contact is unlikely during transport or disposal.

d. The permittee shall obtain metals and organics analysis. Either procedure may be utilized (i.e., total or TCLP), but any constituent whose total concentration exceeds the TCLP limit specified in 35 IAC, Section 721.124 must be analyzed using the TCLP test and the results reported, unless an alternative test has been approved by the Illinois EPA. TCLP test methods must be in accordance with SW 846-1311.

e. EXCEPTIONS:

i. The generator may certify that the eight pesticides (D012, D013, D014, D015, D016, D017, D020 and D031) would not reasonably be expected to be present in the waste based on the nature of the process generating the waste.

ii. Petroleum contaminated media and debris from LUST sites subject to corrective action regulation under 35 IAC, Parts 731 and 732 are temporarily exempt from complete TCLP analysis and the generator may limit analyses to flashpoint, paint filter test and TCLP lead.

iii. For off-specification, unused or discarded commercial or chemical products, an MSDS to determine the hazardous constituents present may be provided in lieu of analytical results.

f. CLARIFICATIONS:

Notwithstanding the exception for manufactured gas plant waste contained in 35 IAC 721.124(a), no manufactured gas plant waste shall be disposed in a non-hazardous waste landfill, unless: i) the waste has been tested in accordance with subsection (d) of this special condition, and ii) the analysis has demonstrated that the waste does not exceed the regulatory levels for any contaminant given in the table contained in 35 IAC 721.124(b).

g. Pursuant to 35 IAC 722.111, the generator of a solid waste is required to determine if the waste is hazardous and comply with all applicable hazardous waste regulations. For any waste that has been determined to be hazardous, the results of quality assurance testing for the treatment program, taken at an appropriate frequency to demonstrate the waste is no

longer hazardous, must be obtained. Verification that the waste meets the land disposal restrictions must also be documented. These requirements are in addition to the other standard special waste test requirements.

3. Special waste generated due to an emergency situation may be disposed without complete TCLP analysis if:

   a. The permittee receives authorization from the Emergency Response Unit of the Illinois EPA at 1-217-782-3637;

   b. The permittee ensures that the generator has received an incident number from the Illinois Emergency Management Agency at 1-800-782-7860 within Illinois, or 1-217-782-7860 outside of Illinois; and

   c. The waste is analyzed for the chemical constituents required by the Emergency Response Unit.

4. The permittee shall conduct the following analyses for waste received in labeled containers in lab packs, including commingled wastes:

   a. Compatibility review in accordance with the procedures identified in USEPA document EPA-600/2-80-076; and

   b. MSDS review to determine the hazardous constituents present and appropriate USEPA hazardous waste class.

5. RCRA empty containers received as a special waste are subject to the following conditions:

   a. Containers have a rated capacity of less than 110 gallons only.

   b. Containers which formerly held 'P' listed hazardous waste must be triple rinsed in accordance with 35Ill. Adm. Code 721.107(b)(3)(A).

   c. TSCA regulated quantities of PCBs or empty compressed gas cylinders are not included under this permit. Container which formerly held TSCA regulated quantities of PCBs are subject to the TSCA requirements administered by the USEPA.

   d. All containers must meet the definition of empty as described in 35 IAC, Section 721.107(b).

   e. Additionally, where possible, a copy of the material safety data sheets for products last present in the container shall be obtained and kept on file.

f. For drums, at least one end must be removed and the drums must be crushed flat.

6. The Special Waste Preacceptance Form shall be utilized for the special waste profile identification requirements of 35 IAC, Section 811.404(a).

7. The Annual Generator Special Waste Recertification for Disposal Special Waste form shall be utilized for the special waste recertification requirements of 35 IAC, Section 811.404(b).

8. The operator shall retain all special waste records until the end of the post-closure period in accordance with 35 IAC, Section 811.405.

IV. GENERAL CONDITIONS

1. This permit is issued with the expressed understanding that no process discharge to Waters of the State or to a sanitary sewer will occur from these facilities except as authorized by a permit issued by the Bureau of Water, Permit Section.

2. Site surface drainage, during development, during operation and after the site is closed, shall be managed in accordance with the approved drainage control plan.

3. If changes occur which modify any of the information the Permittee has used in obtaining a permit for this facility, the Permittee shall notify the Illinois EPA. Such changes would include but not be limited to any changes in the names or addresses of both beneficial and legal titleholders to the herein-permitted site. The notification shall be submitted to the Illinois EPA within fifteen (15) days of the change and shall include the name or names of any parties in interest and the address of their place of abode; or, if a corporation, the name and address of its registered agent.

4. The Illinois EPA reserves the right to require installation of additional monitoring devices, to require analyses for certain parameters, to alter the sample parameters list and to modify the method of evaluating the monitoring results as necessary to fulfill the intent and purpose of the Environmental Protection Act or Pollution Control Board Regulations.

5. This permit is subject to review and modification by the Illinois EPA as deemed necessary to fulfill the intent and purpose of the Environmental Protection Act, and all applicable environmental rules and regulations.

6. Pursuant to 35 Ill. Adm. Code, 813.201(a), any modifications to this permit shall be proposed in the form of a permit application and submitted to the Illinois EPA.

7. Pursuant to 35 Ill. Adm. Code, 813.301, an application for permit renewal shall be filed with the Illinois EPA at least 90 days prior to the expiration date of this permit.

   The Illinois EPA is in receipt of a timely filed application which purports to address this condition. Application Log No. 2015-164 is under review and has a current due date of August 19, 2015.

8. The septic fields on this site are approved for the disposal of on-site generated sanitary waste from septic systems. Any disposal of non-sanitary waste such as stormwater runoff, landfill leachate or discharge from service bay drains will cause the septic field to be considered a waste disposal well pursuant to the Underground Injection Control (UIC) regulations. Operators of UIC wells must, at a minimum, submit information to the Illinois EPA pursuant to 35 Ill. Adm. Code 704.148 and 704.149.

9. The soil stockpile locations proposed in Application Log No. 1996-101 are hereby approved. All runoff from the stockpiles shall be managed pursuant to the stormwater management plan and be directed to sedimentation basins as necessary to comply with 35 Ill. Adm. Code, 811.103(a). (Modification No. 1)

10. The transfer of partial ownership of the facility from Waste Management of Illinois, Inc. to Whiteside County is hereby approved (Modification No. 8).

11. The use of a dewatering system for construction as proposed in Application Log No. 1998-104 is hereby approved (Modification No. 10).

12. Current, valid Prior Conduct Certification pursuant to 35 Ill. Adm. Code Part 745 is required for all landfill operators of landfills that require a permit.

13. Landfill Operator Certification pursuant to 68 IAC Part 870 is required for operation of a landfill.

14. The permittee(s) shall submit a 39(i) certification and supporting documentation within 30 days of any of the following events:

    a. The owner or officer of the owner, or operator, or any employee who has control over operating decisions regarding the facility has violated federal, State, or local laws, regulations, standards, or ordinances in the operation of waste management facilities or sites; or

    b. The owner or operator or officer of the owner, or operator, or any employee who has control over operating decisions regarding the facility has been convicted in this or another State of any crime which is a felony under the laws of this State, or conviction of a felony in a federal court; or

c. The owner or operator or officer of the owner, or operator, or any employee who has control over operating decisions regarding this facility has committed an act of gross carelessness or incompetence in handling, storing, processing, transporting, or disposing of waste; or

d. A new person is associated with the owner or operator who can sign the application form(s) or who has control over operating decisions regarding the facility, such as corporate officer or a delegated employee.

V. LEACHATE MANAGEMENT/MONITORING

1. Pursuant to 35 Ill. Adm. Code, Section 811.309(h)(3), leachate from this MSWLF landfill shall be collected and disposed beginning as soon as it is first produced and continuing for at least 30 years after closure except as otherwise provided by 811.309(h)(4) and (h)(5). Collection and disposal of leachate may cease only when the conditions described in 35 Ill. Adm. Code, Section 811.309(h)(2) have been achieved. Leachate removed from this landfill shall be treated at an Illinois EPA permitted facility in accordance with the leachate management plan proposed in Permit Application Log Nos. 1994-579 and 2001-229.

2. Pursuant to 35 Ill. Adm. Code, Sections 811.307(a) and (b), 811.308(a) and (h), and 811.309(a), leachate shall be pumped from the side slope riser sump(s) before the level of leachate rises above the invert of the collection pipe(s) at its lowest point(s). Leachate removal as such shall be performed throughout the period that the leachate collection/management system must be operated in accordance with Permit Application Log Nos. 1994-579 and 2001-229.

3. The following monitoring points are to be used in the Leachate Monitoring Program for this facility as identified on plan sheet C-11 of application Log No. 2001-229 and approved in Modification No. 25.

Leachate Monitoring Points

Applicant Designation	Illinois EPA Designation
L301	L301
L302	L302
L303	L303
L304	L304
L305	L305
L306	L306
L307	L307
@L308	@L308

Leachate Monitoring Points

Applicant Designation	Illinois EPA Designation
L309	L309
@L310	@L310
@L311	@L311
@L312	@L312

@ indicates leachate monitoring points not yet placed into service.

4. Pursuant to 35 Ill. Adm. Code, Sections 811.309(g), 722.111 and 721, Subpart C, leachate monitoring (i.e., sampling, measurements and analysis) must be conducted in accordance with the permit for this facility. The concentrations or values for the parameters contained in List L1 (below) must be determined on a semi-annual basis and the results must be submitted with the groundwater reports.

   Each year, the permittee shall collect a representative leachate sample and have it tested for the parameters contained in List L2.

   Condition V.5. presents the sampling, testing and reporting schedules in tabular form. Leachate monitoring at each monitoring point shall continue as long as groundwater monitoring at this landfill is necessary pursuant to 35 Ill. Adm. Code, Section 811.319(a)(1)(C).

LIST LI

Leachate Monitoring Parameters	STORET
pH (S.U.)	00400
Elevation Leachate Surface (ft. MSL)	71993
Bottom of Well Elevation (ft. MSL)	72020
Leachate Level from Measuring Point (ft.)	72109
Arsenic (total)	01002
Barium (total)	01007
Cadmium (total)	01027
Iron (total)	01045
Ammonia Nitrogen – N (mg/L)	00610
Bacteria (Fecal Coliform) (FCBR/100 mL)	31616
Biochemical Oxygen Demand (BOD5) (mg/L)	00310
1,1,1,2-Tetrachloroethane	77562
1,1,1-Trichloroethane	34506

LIST LI

Leachate Monitoring Parameters	STORET
1,1,2,2-Tetrachloroethane	34516
1,1,2-Trichloroethane	34511
1,1-Dichloroethane	34496
1,1-Dichloroethylene	34501
1,1-Dichloropropene	77168
1,2,3-Trichlorobenzene	77613
1,2,3-Trichloropropane	77443
1,2,4-Trichlorobenzene	34551
1,2,4-Trimethylbenzene	77222
1,2-Dibromo-3-Chloropropane	38760
1,2-Dichloroethane	34531
1,2-Dichloropropane	34541
1,3,5-Trimethylbenzene	77226
1,3-Dichloropropane	77173
1,3-Dichloropropene	34561
1,4-Dichloro-2-Butene	73547
1-Propanol	77018
2,2-Dichloropropane	77170
2,4,5-tp (Silvex)	39760
2,4,6-Trichlorophenol	34621
2,4-Dichlorophenol	34601
2,4-Dichlorophenoxyacetic Acid (2,4-D)	39730
2,4-Dimethylphenol	34606
2,4-Dinitrotoluene	34611
2,4-Dinitrophenol	34616
2,6-Dinitrotoluene	34626
2-Chloroethyl Vinyl Ether	34576
2-Chloronaphthalene	34581
2-Chlorophenol	34586
2-Hexanone	77103
2-Propanol (Isopropyl Alcohol)	81310
3,3-Dichlorobenzidine	34631
4,4-DDD	39310
4,4-DDE	39320
4,6-Dinitro-O-Cresol	34657
4-Bromophenyl Phenyl Ether	34636

LIST LI

Leachate Monitoring Parameters	STORET
4-Chlorophenyl Phenyl Ether	34641
4-Methyl-2-Pentanone	78133
4-Nitrophenol	34646
Acenaphthene	34205
Acetone	81552
Alachlor	77825
Aldicarb	39053
Aldrin	39330
Alpha – BHC	39337
Aluminum	01105
Anthracene	34220
Antimony	01097
Atrazine	39033
Benzene	34030
Benzo (a) Anthracene	34526
Benzo (a) Pyrene	34247
Benzo (b) Fluoranthene	34230
Benzo (ghi) Perylene	34521
Benzo (k) Fluoranthene	34242
Beryllium (total)	01012
Beta – BHC	39338
Bicarbonate (mg/L as CaCO3)	00425
Bis (2-Chloro-1-Methylethyl) Ether	73522
Bis (2-Chloroethoxy) Methane	34278
Bis (2-Chloroethyl) Ether	34273
Bis (2-Ethylhexyl) Phthalate	39100
Bis(Chloromethyl) Ether	34268
Boron	01022
Bromobenzene	81555
Bromochloromethane	77297
Bromodichloromethane	32101
Bromoform	32104
Bromomethane	34413
Butanol	45265
Butyl Benzyl Phthalate	34292
Calcium (mg/L)	00916

LIST LI

Leachate Monitoring Parameters	STORET
Carbofuran	81405
Carbon Disulfide	77041
Carbon Tetrachloride	32102
Chemical Oxygen Demand (COD) (mg/L)	00335
Chlordane	39350
Chloride (mg/L)	00940
Chlorobenzene	34301
Chloroethane	34311
Chloroform	32106
Chloromethane	34418
Chromium (total)	01034
Chrysene	34320
Cis-1,2-Dichloroethylene	77093
Cobalt (total)	01037
Copper (total)	01042
Cyanide (mg/L)	00720
DDT	39370
Delta – BHC	46323
Di-N-Butyl Phthalate	39110
Di-N-Octyl Phthalate	34596
Dibenzo (a,h) Anthracene	34556
Dibromochloromethane	32105
Dibromomethane	77596
Dichlorodifluoromethane	34668
Dichloromethane	34423
Dieldrin	39380
Diethyl Phthalate	34336
Dimethyl Phthalate	34341
Endosulfan I	34361
Endosulfan II	34356
Endosulfan Sulfate	34351
Endrin	39390
Endrin Aldehyde	34366
Ethyl Acetate	81585
Ethylbenzene	78113
Ethylene Dibromide (EDB)	77651

LIST LI

Leachate Monitoring Parameters	STORET
Fluoranthene	34376
Flourene	34381
Fluoride (mg/L)	00951
Heptachlor Epoxide	39420
Heptachlor	39410
Hexachlorobenzene	39700
Hexachlorobutadiene	39702
Hexachlorocyclopentadiene	34386
Hexachloroethane	34396
Ideno (1,2,3-cd) Pyrene	34403
Iodomethane	77424
Isopropylbenzene	77223
Lead (total)	01051
Lindane	39782
Magnesium (total) (mg/L)	00927
Manganese (total)	01055
Mercury (total)	71900
Methoxychlor	39480
Methyl Ethyl Ketone	81595
Naphthalene	34696
Nickel (total)	01067
Nitrate-Nitrogen (mg/L)	00620
Nitrobenzene	34447
Oil. Hexane Soluble (or Equivalent) (mg/L)	00550 or 00552
Parathion	39540
Pentachlorophenol	39032
Phenanthrene	34461
Phenols	32730
Phosphorous (mg/L)	00665
Polychlorinated Biphenyls	39516
Potassium (mg/L)	00937
Pyrene	34469
Selenium	01147
Silver (total)	01077
Specific Conductance (umhos/cm)	00094

LIST LI

Leachate Monitoring Parameters	STORET
Sodium (mg/L)	00929
Styrene	77128
Sulfate (mg/L)	00945
Temperature of Leachate Sample (°F)	00011
Tert-Butylbenzene	77353
Tetrachlorodibenzo-p-Dioxins	34675
Tetrachloroethylene	34475
Tetrahydrofuran	81607
Thallium	01059
Tin	01102
Toluene	34010
Total Organic Carbon (TOC) (mg/L)	00680
Total Dissolved Solids (TDS) (mg/L)	70300
Total Suspended Solids (TSS) (mg/L)	00530
Toxaphene	39400
Trans-1,2-Dichloroethylene	34546
Trans-1,3-Dichlorpropene	34699
Trichloroethylene	39180
Trichlorofluoromethane	34488
Vinyl Acetate	77057
Vinyl Chloride	39175
Xylene	81551
Zinc (total)	01092
m-Dichlorobenzene	34566
m+p-Xylene	61283
n-Butylbenzene	77342
n-Nitrosodimethylamine	34438
n-Nitrosodiphenylamine	34433
n-Nitrosodipropylamine	34428
n-Propylbenzene	77224
o-Chlorotoluene	77275
o-Dichlorobenzene	34536
o-Nitrophenol	34591
o-Xylene	77135
p-Chlorotoluene	77277
p-Cresol	77146

LIST LI

Leachate Monitoring Parameters	STORET
p-Dichlorobenzene	34571
p-Isopropyltoluene	77356
sec-Butylbenzene	77350

LIST L2

RCRA Parameters for Leachate and Condensate

RCRA PARAMETERS	STORETS
Ignitability	
Flashpoint, Pensky-Martens Closed Cup (°F)	00497
Corrosivity	
pH (S.U.)	00400
Reactivity	
Reactive Cyanide	99040
Reactive Sulfide	99042

Toxicity

	Total conc. (ug/l)	TCLP conc. (mg/L)
Arsenic	1002	99012
Barium	1007	99014
Cadmium	1027	99016
Chromium	1034	99018
Lead	1051	99020
Mercury	71900	99022
Selenium	1147	99024
Silver	1077	99026
Endrin	39390	99028
Lindane	39782	99030

LIST L2

RCRA Parameters for Leachate and Condensate

RCRA PARAMETERS	STORETS	
Methoxychlor	39480	99032
Toxaphene	39400	99034
2,4-D	39730	99036
2,4,5-TP Silvex	39760	99038
Benzene	34030	99128
Carbon tetrachloride	32102	99050
Chlordane	39350	99148
Chlorobenzene	34301	99096
Chloroform	32106	99149
o-Cresol	77152	99150
m-Cresol	77151	99151
p-Cresol	77146	99152
Cresol	79778	99153
1,4-Dichlorobenzene	34571	99154
1,2-Dichloroethane	34531	99155
1,1-Dichloroethylene	34501	99156
2,4-Dinitrotoluene	34611	99157
Heptachlor (and its epoxide)	39410 and 39420	99158
Hexachlorobenzene	39700	99159
Hexachloro-1,3-Butadiene	39702	99160
Hexachloroethane	34396	99161
Methyl Ethyl Ketone	81595	99060
Nitrobenzene	34447	99062
Pentachlorophenol	39032	99064
Pyridine	77045	99066
Tetrachloroethylene	34475	99068
Trichloroethylene	39180	99076
2,4,5-Trichlorophenol	77687	99078
2,4,6-Trichlorophenol	34621	99080
Vinyl Chloride	39175	99162

Notes for all leachate monitoring parameters:

a. Flashpoint shall be reported in degrees Fahrenheit. The parameters for reactivity and toxicity shall be reported in parts per million.

b. The permittee shall obtain metals and organics analysis. For List L2 parameters, either procedure may be utilized (i.e., total or TCLP), but any constituent whose total concentration exceeds the TCLP limit specified in 35 Ill. Adm. Code, Section 721.124 must be analyzed using the TCLP test and the results reported, unless an alternative test has been approved by the Illinois EPA. TCLP test methods must be in accordance with SW 846-1311.

c. The test methods for leachate monitoring shall be those approved in the USEPA's Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846), Third Edition or the equivalent thereof.

d. All parameters shall be determined from unfiltered samples.

e. The monitoring results should be reported in ug/l units unless otherwise indicated.

5. The schedule for leachate sample collection and submission of monitoring results for leachate monitoring points currently in-place and representative sample for L2 testing is as follows:

Sampling Period	Sampling List	Sampling Points	Report Due Date
April-May 2010	List L1	L301 and L307	July 15, 2010
	List L2	LREP	July 15, 2010
Oct-Nov 2010	List L1	L302 and L306	January 15, 2011
April-May 2011	List L1	L303 and L305	July 15, 2011
	List L2	LREP	July 15, 2011
Oct-Nov 2011	List L1	L304	January 15, 2012
April-May 2012	List L1	L301 and L307	July 15, 2012
	List L2	LREP	July 15, 2012
Oct-Nov 2012	List L1	L302 and L306	January 15, 2013
April-May 2013	List L1	L303 and L305	July 15, 2013
	List L2	LREP	July 15, 2013
Oct-Nov 2013	List L1	L304 and L309	January 15, 2014
April-May 2014	List L1	L301 and L307	July 15, 2014
	List L2	LREP	July 15, 2014
Oct-Nov 2014	List L1	L302 and L306	January 15, 2015

Sampling Period	Sampling List	Sampling Points	Report Due Date
April-May 2015	List L1	L303 and L305	July 15, 2015
	List L2	LREP	July 15, 2015
Oct-Nov 2015	List L1	L304 and L309	January 15, 2016

L1 – Leachate Monitoring Parameters
L2- Annual RCRA Leachate Parameters
LREP – Representative Leachate Sample

6. The leachate monitoring data must be submitted in an electronic format. The information is to be submitted as fixed-width text files formatted as found at www.epa.state.il.us/land/waste-mgmt/groundwater-monitoring.html.

7. The leachate storage system and associated piping shall be protected from freezing.

8. The leachate management procedures proposed in the addendum dated January 9, 2004 of application Log No. 2003-391 are hereby approved. The approval is subject to the following conditions:

   a. A mobile leachate storage tank with a minimum capacity of 2,500 gallons shall always be available at the facility;

   b. Leachate levels shall be monitored at least two times per week. If it rains during the operating day the leachate level shall be checked at the end of the day. If the rain event occurs when the facility is closed, leachate levels shall be checked the next working day. If during any of these monitoring events leachate level is found to be above the invert of the collection pipe(s), then leachate shall be pumped into the mobile tank. The pumping shall continue at least until leachate levels have receded to below the invert of the collection pipe(s);

   c. During large rainfall events leachate level shall be pumped to below the invert of the collection pipe(s) as soon as possible;

   d. A submersible or suction pump shall always be available at the facility to transfer leachate from the mobile tank into the two 21,000 gallon leachate storage tanks; and

   e. These procedures shall remain in effect until the leachate drainage and collection system is connected to the leachate storage tanks by an underground forcemain.
   (Modification No. 30)

9. The following conditions shall apply when leachate is re-circulated through distribution trenches or by direct application to the working face of the landfill:

   a. Leachate distribution trenches shall be constructed by excavating an opening approximately 4 feet deep and 2 to 6 feet wide on a level portion or top deck of the active fill area. The trenches shall be spaced at least 50-feet apart and no more than 3 trenches shall receive leachate at one time;

   b. The leachate distribution trenches shall be covered at the end of each operating day with either daily cover or approved alternate daily cover. Trenches shall be backfilled after the active filling area has progressed to other portions of the landfill;

   c. The operator shall maintain an operating record that documents leachate re-circulation activities. The operating record shall include:

      i. The amount of leachate re-circulated on a daily basis;

      ii. The amount of waste disposed on a daily basis (gate cubic yards and tons).

      iii. The location and approximate dimensions of the leachate trenches or the location of the active face where leachate was applied;

      iv. How the leachate re-circulation area was closed at the end of the operating day; and

      v. Documentation of leachate pop outs, odors and other associated problems that could be attributed to leachate re-circulation.

   d. Leachate shall not be re-circulated during precipitation events or in volumes large enough to cause runoff or surface seeps;

   e. The amount of leachate added shall not exceed the ability of the waste and cover soils to transmit leachate flow downward;

   f. Leachate shall be evenly distributed beneath the surface of the re-circulation area;

   g. Daily and intermediate cover shall slope away from the perimeter of the site to minimize surface discharges of leachate;

   h. Leachate re-circulation shall be restricted to areas where the hydraulic conductivity of the leachate drainage layer is equal to or greater than 1 x 10^{-1} cm/sec;

i. Leachate which exhibits a hazardous characteristic in accordance with 35 Ill. Adm. Code 721, Subpart C shall not be re-circulated; and

j. The maximum volume of leachate that can be re-circulated shall be calculated on a daily basis. The volume of leachate re-circulated shall not exceed 25 gallons per ton of waste disposed at the landfill on that particular day.

10. Re-circulation of leachate shall be limited to the active life of the landfill. Leachate shall not be re-circulated after the landfill stops accepting waste and during the post-closure care period.

11. The re-circulation of leachate through a series of forcemains and perforated pipes as described in application Log No. 2006-398 is hereby approved. Operation of the above referenced leachate re-circulation system shall not be initiated until an acceptance report has been submitted to and approved by the Illinois EPA as a significant modification pursuant to 35 Ill. Adm. Code, Sections 811.505(d) and 813.203. (Modification No. 45)

12. Modification No. 3 (Log No. 1996-205) approved the leachate storage system consisting of two 21,000 gallon storage tanks near the southwest corner of the landfill.

13. Modification No. 51 (Log No. 2008-162) approved the installation of an additional 20,000 gallon leachate storage tank in the northwest corner of Phases 1-4 of the landfill.

VI. GROUNDWATER MONITORING

1. The groundwater monitoring program must be capable of determining background groundwater quality hydraulically upgradient of and unaffected by the units and to detect, from all potential sources of discharge, any releases to groundwater within the facility. The Illinois EPA reserves the right to require installation of additional monitoring wells as may be necessary to satisfy the requirements of this permit.

2. The groundwater monitoring wells shall be constructed and maintained in accordance with the requirements of 35 Ill. Adm. Code, 811.318(d) and designs approved by the Illinois EPA.

3. Groundwater monitoring wells shall be maintained in the locations shown in Drawing No. C-29, of the permit application, Log No. 1994-579 and screened in the hydrogeologic unit(s) identified as potential contaminant pathway(s) within the zone of attenuation. Installation of the proposed new monitoring wells listed in Condition VI.9 will be phased coincident with landfill development as described in

the revised schedule contained in Attachment 2 of the December 9, 2002 Addendum to Application Log No. 2002-333. The estimated schedule dates (non-binding) are intended to provide for new downgradient well installation. Installation shall occur a minimum of one year before waste placement within respective phases for the purpose of background development.

The location of groundwater monitoring well G1K4 has been revised, with the newly designated location shown in Figure 1 of Permit Application Log No. 2015-088. The screened hydrogeologic unit remains unchanged.

4. Within 60 days of installation of any groundwater monitoring well, boring logs compiled by a qualified geologist, well development data and as-built diagrams shall be submitted to the Illinois EPA utilizing the enclosed "Well Completion Report" form. For each well installed pursuant to this permit, one form must be completed.

5. Groundwater monitoring wells shall be easily visible, labeled with the Illinois EPA monitoring point designations and fitted with padlocked protective covers.

6. In the event that any well becomes consistently dry or unserviceable and therefore requires replacement, a replacement well shall be installed within ten (10) feet of the existing well. The Illinois EPA shall be notified in writing at least 15 days prior to the installation of all replacement wells. A replacement well that is more than ten feet from the existing well or which does not monitor the same geologic zone is considered to be a new well and must be approved via a significant modification permit.

7. All borings, wells and piezometers not used as monitoring points shall be abandoned in accordance with the standards in 35 Ill. Adm. Code 811.316, and the decommissioning and reporting procedures contained in the Illinois Department of Public Health's (IDPH) Water Well Construction Code, 77 Ill. Adm. Code, Part 920 (effective 1/1/92). In the event specific guidance is not provided by IDPH procedures, the Illinois EPA monitoring well plugging procedures shall be followed.

8. Groundwater sampling and analysis shall be performed in accordance with the requirements of 35 Ill. Adm. Code 811.318(e) and the specific procedures and methods approved by the Illinois EPA. Low-flow and micro-purging sampling methods shall be used as described in application Log No. 2005-099.

9. The following monitoring points are to be used in the groundwater detection monitoring program for this facility:

Upgradient Wells

Applicant Designation	Illinois EPA Designation
G122	G1C2
G123	G1C3
G142	G1E2
R201	R1K1
G202	G1K2
G203	G1K3
G204	G1K4
G221	G1M1
G222	G1M2
G223	G1M3
G237	G1N7

Compliance Boundary Well(s)

Applicant Designation	Illinois EPA Designation
G208	G1K8
G214	G1L4
G219	G1L9
G226	G1M6
G228	G1M8
G232	G1N2

Wells Within Zone of Attenuation

Applicant Designation	Illinois EPA Designation
G205*	G1K5*
R205#	R1K5#
G206*	G1K6*
R206#	R1K6#
G207	G1K7
G209	G1K9
G210	G1L0
G211	G1L1
G212	G1L2
G213	G1L3

Wells Within Zone of Attenuation
(cont.)

Applicant Designation	Illinois EPA Designation
G215	G1L5
G216	G1L6
G217	G1L7
G218	G1L8
G220	G1M0
G224	G1M4
G225	G1M5
G227	G1M7
G229	G1M9
G230	G1N0
G231	G1N1
G233	G1N3
G234	G1N4
G235	G1N5
G236	G1N6

Note:
(*) – Represents Deleted Monitoring Point
(#) – Represents Added Monitoring Point

10. The monitoring program, approved by Permit No.1999-291-LF, shall continue for a minimum period of 30 years after closure and shall not cease until the conditions described in 35 Ill. Adm. Code, 811.319(a)(1)(C) have been achieved. The operator shall collect samples from all of the monitoring points listed in Condition VI.9, test the samples for the parameters listed in Condition VI.12 (Lists G1 and G2), and report the results to the Illinois EPA, all in accordance with the schedule in Condition VI.18.

11. The applicable groundwater quality standards (AGQS) and the maximum allowable predicted concentrations (MAPC), as listed in Attachment 1, are subject to the following conditions:

    a. Temperature and the field parameters involving depth or elevation are not considered groundwater constituents and do not need AGQS.

    b. For constituents which have not been detected in the groundwater, either the practical quantitation limit (PQL) or the method detection limit (MDL) shall be used as the AGQS.

c. MAPCs are only applicable to those wells within the zone of attenuation. MAPC values are not applicable to parameters within the zone of attenuation wells having an established intrawell value.

d. AGQS are only applicable to upgradient/background and compliance boundary wells.

12. AGQS and MAPC values must be determined for all of the parameters which appear in either Lists G1 or G2 (not including groundwater depth or elevations). The AGQS values shall be calculated using a minimum of four (4) consecutive quarters of groundwater monitoring data and shall be calculated at the 99% Upper Confidence Limit or as proposed in Section 11.2.2.1 of Application Log No. 1994-579.

LIST G (Groundwater – Variable)

GROUNDWATER MONITORING PARAMETER	STORETS
Elevation of Bottom of Well (ft. MSL) (Annually without dedicated pumps; every 5 years with dedicated pumps or whenever the pump is pulled)	72020

LIST G1 (Groundwater - Quarterly)

FIELD PARAMETERS	STORETS
pH (S.U.)	00400
Specific Conductance (umhos/cm)	00094
Temperature of Water Sample (° F)	00011
Depth to Water (ft. below land surface)	72019
Depth to Water (ft. below measuring point)	72109
Elevation of Measuring Point (Top of casing ft. MSL)	72110
Elevation of Groundwater Surface (ft. MSL)	71993
Ammonia (as Nitrogen; Dissolved) mg/L	00608
Arsenic (Dissolved) ug/L	01000
Boron (Dissolved) ug/L	01020
Cadmium (Dissolved) ug/L	01025
Chloride (Dissolved) mg/L	00941
Chromium (Dissolved) ug/L	01030
Cyanide (Total) mg/L	00720
Lead (Dissolved) ug/L	01049
Magnesium (Dissolved) mg/L	00925
Mercury (Dissolved) ug/L	71890
Nitrate (as Nitrogen, Dissolved) mg/L	00618
Sulfate (Dissolved) mg/L	00946

LIST G1 (Groundwater - Quarterly)

FIELD PARAMETERS	STORETS
Total Dissolved Solids (TDS, 180°C; Dissolved) mg/L	70300
Zinc (Dissolved) ug/L	01090

NOTE:

i. All parameters with the "(Dissolved)" label to the right shall be determined using groundwater samples which have been filtered through a 0.45 micron filter. All other parameters shall be determined from unfiltered samples.

ii. Maximum allowable predicted concentrations (MAPCs) and applicable groundwater quality standards (AGQS) are given in ug/L except as otherwise noted. Also, the monitoring results should be reported in ug/L units unless otherwise indicated.

iii. List G1 and List G2 AGQS/MAPC values are included in Attachment 1.

LIST G2 (Groundwater - Semiannual)

PARAMETERS (ug/L)	STORETS
Acetone	81552
Acrylonitrile	34215
Benzene	34030
Bromobenzene	81555
Bromochloromethane (chlorobromomethane)	77297
Bromodichloromethane	32101
Bromoform (Tribromomethane)	32104
n-Butylbenzene	77342
sec-Butylbenzene	77350
tert-Butylbenzene	77353
Carbon Disulfide	77041
Carbon Tetrachloride	32102
Chlorobenzene	34301
Chloroethane (Ethyl Chloride)	34311
Chloroform (Trichloromethane)	32106
o-Chlorotoluene	77275
p-Chlorotoluene	77277
Dibromochloromethane	32105
1,2-Dibromo-3-Chloropropane	38760
1,2-Dibromoethane	77651
1,2-Dichlorobenzene	34536

LIST G2 (Groundwater - Semiannual)

PARAMETERS (ug/L)	STORETS
1,3-Dichlorobenzene	34566
1,4-Dichlorobenzene	34571
trans-1,4-Dichloro-2-Butene	49263
Dichlorodifluoromethane	34668
1,1-Dichloroethane	34496
1,2-Dichloroethane	34531
1,1-Dichloroethylene	34501
cis-1,2-Dichloroethylene	77093
trans-1,2-Dichloroethylene	34546
1,2-Dichloropropane	34541
1,3-Dichloropropane	77173
2,2-Dichloropropane	77170
1,1-Dichloropropene	77168
1,3-Dichloropropene	34561
cis-1,3-Dichloropropene	34704
trans-1,3-Dichloropropene	34699
Ethylbenzene	78113
Hexachlorobutadiene	39702
2-Hexanone (Methyl Butyl Ketone)	77103
Isopropylbenzene	77223
p-Isopropyltoluene	77356
Methyl Bromide (Bromomethane)	34413
Methyl Chloride (Chloromethane)	34418
Methylene Bromide (Dibromomethane)	77596
Dichloromethane	34423
Methyl Ethyl Ketone	81595
Methyl Iodide (Iodomethane)	77424
4-Methyl-2-Pentanone	78133
Naphthalene	34696
Oil (Hexane-Soluble) (mg/L)	00552
n-Propylbenzene	77224
Styrene	77128
1,1,1,2-Tetrachloroethane	77562
1,1,2,2-Tetrachloroethane	34516
Tetrachloroethylene	34475
Tetrahydrofuran	81607
Toluene	34010
Total Phenolics	32730
1,2,3-Trichlorobenzene	77613
1,2,4-Trichlorobenzene	34551

LIST G2 (Groundwater - Semiannual)

PARAMETERS (ug/L)	STORETS
1,1,1-Trichloroethane	34506
1,1,2-Trichloroethane	34511
Trichloroethylene	39180
Trichlorofluoromethane	34488
1,2,3-Trichloropropane	77443
1,2,4-Trimethylbenzene	77222
1,3,5-Trimethylbenzene	77226
Vinyl Acetate	77057
Vinyl Chloride	39175
Xylenes	81551

NOTE:

i. All parameters with the "(Dissolved)" label to the right shall be determined using groundwater samples which have been filtered through a 0.45 micron filter. All other parameters shall be determined from unfiltered samples.

ii. Maximum allowable predicted concentrations (MAPCs) and applicable groundwater quality standards (AGQS) are given in ug/L except as otherwise noted. Also, the monitoring results should be reported in ug/L units unless otherwise indicated.

iii. List G1 and List G2 AGQS/MAPC values are included in Attachment 1.

13. Pursuant to 35 Ill. Adm. Code, 811.319(a)(4)(A), any of the following events shall constitute an observed increase only if the concentrations of the constituents monitored can be measured at or above the practical quantitation limit (PQL):

    a. The concentration of any constituent in List G1 of Condition VI.12 or Attachment 2 shows a progressive increase over eight (8) consecutive quarters.

    b. The concentration of any constituent monitored in accordance with List G1 or List G2 of Condition VI.12 exceeds the MAPC at an established monitoring point within the zone of attenuation. MAPC values are not applicable to parameters within the zone of attenuation wells having an established intrawell value.

c. The concentration of any organic constituent in List G2, monitored in accordance with Condition VI.12 and Attachment 2 exceeds the preceding measured concentration at any established point.

d. The concentration of any constituent monitored at or beyond the edge of the zone of attenuation (compliance boundary) exceeds its AGQS, or pursuant to 811.320(d) any constituent monitored at an upgradient well, exceeds its AGQS. However, the comparison to AGQS concentrations will not be required for wells G1E2, G1C3, G1C2, G1M1, G1M2 and G1M3 in routine monitoring.

e. The concentration of any constituent monitored in accordance with List G1 or List G2 of Attachment 2 exceeds the intrawell AGQS value at an established monitoring point. Intrawell values replace MAPC values.

The comparison of groundwater concentrations to values b, d, and e above to determine an observed increase will be based on exceedences of both interwell and intrawell AGQS values, if there is an intrawell value established for the parameter, listed in Attachment 2.

14. For each round of sampling described in Condition 10 of this Section, the operator must determine if an observed increase has occurred within 90 days of the initial sampling date. If an observed increase is identified, the operator must also notify the Illinois EPA in writing and follow the confirmation procedures of 35 Ill. Adm. Code, 811.319(a)(4)(B). Furthermore, the operator must complete the confirmation procedures within 180 days of the initial sampling event.

15. Upon confirmation of a monitored increase and within 180 days of the initial sampling date, the operator shall submit a permit application for a significant modification to demonstrate an alternate source per 35 Ill. Adm. Code 811.319(a)(4)(B)(ii) or begin an assessment monitoring program in order to determine whether the solid waste disposal facility is the source of the contamination and to provide information needed to carry out a groundwater impact assessment in accordance with 35 Ill. Adm. Code 811.319(b).

16. In the event that an alternative source demonstration is denied, pursuant to 35 Ill. Adm. Code 813.105, the operator must commence sampling for the constituents listed in 35 Ill. Adm. Code 811.319(b)(5), and submit an assessment monitoring plan as a significant permit modification, both within 30 days after the dated notification of Agency denial. The operator must sample the well or wells that exhibited the confirmed increase.

17. The first quarterly statistical evaluations shall be performed on groundwater samples taken during the months of January – February and the results submitted to the Illinois EPA by April 15, 2004.

18. The schedule for sample collection and submission of quarterly monitoring results is as follows:

Sampling Quarter	Sampling Due	Report Due Date
Jan-Feb (1st)	List G1	April 15
April-May (2nd)	List G, G1, and G2	July 15
July-Aug (3rd)	List G1	October 15
Oct-Nov (4th)	List G1 and G2	January 15

G – Well Depth
G1 – Routine Groundwater Parameters
G2 – Semiannual Groundwater Parameters

19. Elevation of stick-up is to be surveyed and reported to the Illinois EPA:

    a. When the well is installed (with the as-built diagrams),

    b. Every two years thereafter, or

    c. Whenever there is reason to believe that the elevation has changed.

20. Annually, the operator shall prepare an evaluation of the groundwater flow direction and the hydraulic gradients at the facility using the groundwater surface elevations (STORET #71993) determined for each monitoring event. This assessment shall be submitted with the monitoring results due on July 15.

21. All monitoring points shall be maintained in accordance with the approved permit application such that the required samples and measurements may be obtained.

22. Information required by Conditions VI.10 and VI.18 must be submitted in an electronic format. The information is to be submitted, as fixed-width text files formatted as found at www.epa.state.il.us/land/waste-mgmt/groundwater-monitoring.html.

23. Should a demonstration of a confirmed groundwater exceedance due to the facility be made, the proposed design plan change (groundwater extraction system) as proposed in Permit Application Log No. 2001-229 and all addendum, shall be implemented within 30 days after the assessment monitoring and report, approved by the Illinois EPA, determines that groundwater exceedences are due to the facility.

24. Should the proposed design plan change as required in Permit Conditions VI.23 be implemented, the operator shall prepare an annual assessment of the effectiveness of the system. This assessment shall be submitted on or before July 15.

25. Background concentrations which exhibit a statistically significant change shall be adjusted and updated in accordance with 35 Ill. Adm. Code 811.320(d)(2) and submitted to the Illinois EPA as a permit modification.

26. The facility shall conduct Assessment Monitoring at well G1L6 for dissolved sulfate as proposed in Permit Application Log No. 2015-065 on a quarterly basis, and shall include monitoring for 40 CFR Appendix II parameters and 35 IAC 620.410 parameters on a semi-annual basis beginning in the second quarter 2015 groundwater sampling event and continuing as proposed in Log No. 2015-065. An Assessment Monitoring report, which at a minimum shall include the groundwater analytical data from routine and expanded monitoring, historical trend analysis for dissolved sulfate and historical groundwater elevation data for well G1L6 and surrounding groundwater monitoring wells shall be submitted to the Illinois EPA as a significant modification permit application no later than March 15, 2016.

VII. LANDFILL GAS MANAGEMENT/MONITORING

1. The landfill gas monitoring plan described in Application Log No. 1994-579 is approved. Monitoring devices shall be put into service in accordance with the following schedule:

   a. The gas monitoring probes within the waste boundary shall be installed and put into service within ninety days after final cover has been applied to the various areas where they are located.

   b. Monitoring devices outside the waste boundary shall be put into service when waste has been disposed in the landfill near that monitoring location. Every application for operating authorization of an additional phase shall include documentation for installation of associated gas probes listed in the table titled "Gas probe installation schedule" submitted in the addendum dated July 18, 2011 of application Log No. 2011-080.

   c. Monitoring devices within buildings shall be put into service when waste disposal begins and the building has been constructed.

   d. Ambient air monitoring devices shall be put into service downwind of the disposal unit after initial receipt of waste.

   e. Documentation that all the gas monitoring probes outside the waste boundary and the methane monitoring devices within the on-site buildings

have been installed shall be included with the application for a significant modification requesting authorization to place waste upon new liner.

2. The gas monitoring probes both inside and outside the waste boundary shall be monitored for the following parameters:

   a. Methane;
   b. Pressure;
   c. Nitrogen*;
   d. Oxygen; and
   e. Carbon Dioxide

   *NOTE: For routine monitoring, Nitrogen may be reported as the net remaining volume fraction after the other measured constituents have been accounted for.

3. The ambient air monitoring devices described in the Application, Log No. 1994-579, shall be used to test the air downwind of the landfill for methane.

4. All buildings within the facility boundaries shall be monitored continuously for methane.

5. Gas monitoring shall begin immediately after the first significant modification authorizing operation of the new unit is issued, shall continue for at least thirty (30) years after closure and may be discontinued only after the conditions described in 35 Ill. Adm. Code, 811.310(c)(4) have been achieved.

6. Sampling and testing of the gas monitoring probes and ambient air monitoring shall be performed at least annually (except for gas probes GP-2 and GP-3) throughout the new unit's operating life. Gas probes GP-2 and GP-3 shall be monitored quarterly.

7. Pursuant to 35 Ill. Adm. Code 811.311, in the event of any of the occurrences listed below, the operator must take the steps described in the last two paragraphs of this condition to ensure the protection of human health:

   a. A methane concentration greater than 50 percent of the lower explosive limit in air is detected in any of the below ground monitoring devices outside the waste boundary;

   b. A methane concentration greater than 50 percent of the lower explosive limit in air is detected during ambient air monitoring;

   c. A methane concentration greater than 25 percent of the lower explosive limit in air is detected in any building on or near the facility; or

d. Malodors attributed to the unit are detected beyond the property boundary.

First, within two business days of the occurrence, the operator must notify the Illinois EPA in writing using the form LPC-591, pursuant to 35 Ill. Adm. Code 811.311(b)(1). The notification must identify the location of the occurrence and describe its nature (quantitatively if possible). If the gas exceedance is corrected within 30 days, a follow up LPC-591 form may be submitted to the Illinois EPA describing the correction and providing confirmation test results.

Second, if a follow up LPC-591 is not submitted, then within 180 days of the occurrence, the operator must submit to the Illinois EPA an application for a significant modification that either: 1) proposes a gas collection/management system or modifications to the existing gas collection/management system, or 2) demonstrates that the facility is not the cause of the occurrence.

8. The gas probes shall be inspected at least monthly for structural integrity and proper operation.

9. The results from gas monitoring for each year shall be submitted to the Illinois EPA in the annual report required by 35 Ill. Adm. Code, 813.501.

10. At the end of the post-closure care period, the gas monitoring probes shall be decommissioned. The probes outside the waste boundary shall be decommissioned using the method described in the enclosed Illinois EPA monitoring well plugging procedure guidance. In decommissioning the probes within the waste boundaries, the pipes shall be cut off at least two (2) feet below the low permeability layer and plugged. Then the low permeability layer, the protective layer and the vegetation shall be restored in the excavated areas.

11. Modification Nos. 23, 27, 40, 50, 53, 55, 58, 65, 72, and 83, approved construction documentation for a portion of the landfill gas management system consisting of the following:

- Fifty-seven (57) gas extraction wells and associated collector piping;
- 30 temporary Rock Columns and associated horizontal collector piping;
- Condensate knockout and pumping station;
- Blower/flare outside the northeast corner of Phase 4; and
- Blower/Flare south of Phase 5.

The permittee shall operate the gas collection system in accordance with the requirements of Condition Nos. VII.12 and VII.13.

12. Upon completion of construction of each subsequent phase of the gas management system the operator:

a. May temporarily operate the subject phase of the landfill gas management system for a period not exceeding 120-days as a part of a "shakedown period"; and

b. Shall submit an acceptance report to the Illinois EPA pursuant to the requirements of 35 Ill. Adm. Code, Sections 811.505(d) and 813.203. The acceptance report shall be submitted in the form of a permit application for significant modification and shall demonstrate that the construction of the subject phase of the landfill gas management system has been completed in accordance with the approved designs. The permit application shall be submitted within 30-days of the commencement of the temporary operation referenced in item (a) above.

13. The temporary operation of the gas management system referenced in Condition No. VII.12 of this permit does not relieve the permittee to file reports and/or obtain applicable permit(s) from the Illinois EPA's Bureau of Air. Furthermore, the operation of the gas management system shall not violate any conditions included in the permit(s) issued by the Illinois EPA's Bureau of Air.

VIII. CLOSURE/POST CLOSURE CARE

1. Per 35 IAC Part 813.401(a), the landfill operator shall send a notice of closure to the Illinois EPA within 30 days after the date of the final volume of waste is received. The facility shall be closed in accordance with the closure plan in Application Log No. 1994-579. Upon completion of closure activities, the operator shall notify the Illinois EPA that the site has been closed in accordance with the approved closure plan utilizing the Illinois EPA's "Affidavit for Certification of Closure of Solid Waste Landfills permitted under 35 IAC Parts 813 and 814".

2. Inspections of the closed landfill shall be conducted in accordance with the approved post-closure care plan. Records of field investigations, inspections, sampling and corrective action taken are to be maintained at the site and made available to Illinois EPA personnel. During the post-closure care period, these records are to be maintained at the office of the site operator.

3. If necessary, the soil over the entire planting area shall be amended with lime, fertilizer and/or organic matter. On sideslopes, mulch or some other form of stabilizing material is to be provided to hold seed in place and conserve moisture.

4. The minimum post-closure care period for this municipal solid waste (MSWLF) landfill is thirty (30) years. When the post-closure care period has been completed, the operator shall notify the Illinois EPA utilizing the Illinois EPA's LPC-PA1 application form entitled "General Application for Permit."

5. The operator shall provide financial assurance for closure and post-closure care pursuant to 35 Ill. Adm. Code, 811.700(b). The receipt of waste in the new unit shall not be approved until adequate documentation of financial assurance in accordance with 35 Ill. Adm. Code, 811.700(b) has been provided.

   However, financial assurance for closure and post-closure care shall be required only for those areas for which authorization to operate has been obtained or is being requested.

6. The operator shall increase the total amount of financial assurance so as to equal the current cost estimate within 90 days of an increase in the current cost estimate in accordance with 35 Ill. Adm. Code, 811.701(b).

7. The total cost estimate for closure and post-closure care for this facility approved by Modification No. 86 to Permit No. 1994-579-LF is $11,224,545.00. The total cost estimates consist of $5,269,534.00 in closure costs; $5,908,031.00 in post-closure care costs; and $46,980.00 in decommissioning costs. The permittee shall maintain financial assurance in this amount pursuant to 35 Ill. Adm. Code 811.701(a).

8. The owner or operator shall adjust the cost estimates for closure, post-closure, and corrective action for inflation on an annual basis during the following time periods:

   a. The active life of the unit for the closure cost;

   b. The active life and post-closure care period for the post-closure cost; or

   c. Until any corrective action program is completed in accordance with 35 Ill. Adm. Code, Section 811.326, for the cost of corrective action.

   Each year, no later than June 1 of that year, the owner or operator shall submit a permit application for significant modification. This application shall provide an update to the cost estimate or a certification that there are no changes to the current cost estimates.

IX. REPORTING REQUIREMENTS

1. The annual certification shall be submitted to the Illinois EPA during operation and for the entire post-closure monitoring period, pursuant to 35 Ill. Adm. Code 813.501. The certification shall be signed by the operator or duly authorized agent, shall be filed each year by May 1 the following year and shall state:

a. All records required to be submitted to the Illinois EPA pursuant to 35 Ill. Adm. Code 858.207 and 858.308 have been timely and accurately submitted; and,

b. All applicable fees required by the Act have been paid in full.

2. The annual report for each calendar year shall be submitted to the Illinois EPA by May 1 of the following year pursuant to 35 Ill. Adm. Code 813.504. The annual report shall include:

a. Information relating to monitoring data from the leachate collection system, groundwater monitoring network, gas monitoring system and any other monitoring data specified in this permit, including:

1) Summary of monitoring data for the calendar year;

2) Dates of submittal of comprehensive monitoring data to the Illinois EPA during the calendar year;

3) Statistical summaries and analysis of trends;

4) Changes to the monitoring program; and

5) Discussion of error analysis, detection limits and observed trends.

b. Proposed activities:

1) Amount of waste expected in the next year;

2) Structures to be built within the next year; and

3) New monitoring stations to be installed within the next year.

c. Any modification or significant modification affecting operation of the facility; and

d. The signature of the operator or duly authorized agent as specified in 35 Ill. Adm. Code 815.102.

3. The permittee shall submit a completed "Solid Waste Landfill Groundwater, Leachate, Facility and Gas Reporting Form" (LPC 591) as a cover sheet for any notices or reports required by the facility's permit for identification purposes. One copy of the LPC 591 form must accompany each report; however, except for electronically formatted data, the permittee must submit one (1) original and a

minimum of two (2) copies of each report you submit to the Illinois EPA. The form is not to be used for applications for supplemental permit or significant modification.

4. All certifications, logs, reports, plan sheets, notices, and groundwater and leachate monitoring data, required to be submitted to the Illinois EPA by the permittee, shall be mailed to the following address:

Illinois Environmental Protection Agency
Permit Section
Bureau of Land -- #33
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Except for electronic groundwater and leachate monitoring data, the operator shall provide the Illinois EPA with the original and two (2) copies of all certifications, logs, reports and plan sheets required by this permit.

The applicant may appeal this final decision to the Illinois Pollution Control Board pursuant to Section 40 of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the applicant and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the request for an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276
217/782-5544

For information regarding the filing of an appeal, please contact:

Illinois Pollution Control Board, Clerk
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
312/814-3620

Work required by this permit, your application or the regulations may also be subject to other laws governing professional services, such as the Illinois Professional Land Surveyor Act of 1989, the Professional Engineering Practice Act of 1989, the Professional Geologist Licensing Act, and the Structural Engineering Licensing Act of 1989. This permit does not relieve anyone from compliance with these laws and the regulations adopted pursuant to these laws. All work that falls within the scope and definitions of these laws must be performed in compliance with
them. The Illinois EPA may refer any discovered violation of these laws to the appropriate regulating authority.

Sincerely,

Stephen F. Nightingale, P.E.
Manager, Permit Section
Bureau of Land

KES MSS TBH

SFN:RCC/1950350014-811LF-SM87-2015229-2015354-Approval.docx

CJL

Attachments: Standard Conditions
1. Facility AGQS Values
2: Intrawell AGQS Values

Enclosures: Special Waste Preacceptance Form
Annual Generator Special Waste Recertification for Disposal of Special Waste Form

cc: Bernadette G. Sarmiento, P.E. – Waste Management of Illinois, Inc.

Bcc: Bureau File
Rockford Region
Bur Filson
Bob Mathis, Ellen Robinson, Nancy Moore
Michael Summers
Bob Colwell

STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY BUREAU OF LAND

August 22, 2001

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

These standard conditions shall apply to all permits which the Agency issues for construction or development projects which require permits under the Bureau of Land. Special conditions may also be imposed in addition to these standard conditions.

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire two years after date of issuance unless construction or development on this project has started on or prior to that date.

2. The construction or development of facilities covered by this permit shall be done in compliance with applicable provisions of Federal laws and regulations, the Illinois Environmental Protection Act, and Rules and Regulations adopted by the Illinois Pollution Control Board.

3. There shall be no deviations from the approved plans and specifications unless a written request for modification of the project, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.

4. The permittee shall allow any agent duly authorized by the Agency upon the presentation of credentials:

    a. to enter at reasonable times the permittee's premises where actual or potential effluent, emissions or noise sources are located or where any activity is to be conducted pursuant to this permit.

    b. to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit.

    c. to inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit.

    d. to obtain and remove at reasonable times samples of any discharge or emission of pollutants.

e. to enter at reasonable times and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.

5. The issuance of this permit:

   a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located;

   b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities;

   c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations;

   d. does not take into consideration or attest to the structural stability of any units or parts of the project;

   e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.

6. Unless a joint construction/operation permit has been issued, a permit for operating shall be obtained from the Agency before the facility or equipment covered by this permit is placed into operation.

7. These standard conditions shall prevail unless modified by special conditions.

8. The Agency may file a complaint with the Board for modification, suspension or revocation of a permit:

   a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed; or

   b. upon finding that any standard or special conditions have been violated; or

   c. upon any violation of the Environmental Protection Act or any Rule or Regulation effective thereunder as a result of the construction or development authorized by this permit.

1950350014 – Prairie Hill RDF
Permit No. 1994-579-LF
Log Nos. 2015-229, 2015-354

Attachment 1 – Facility AGQS values

Quarterly Facility AGQS Values

FIELD PARAMETERS	STORETS	MAPC	AGQS
pH (S.U.)	00400		
Specific Conductance (umhos/cm)	00094		
Temperature of Water Sample (°F)	00011	----	----
Depth to Water (ft. below land surface)	72019	----	----
Depth to Water (ft. below measuring point)	72109	----	----
Elevation of Measuring Point (Top of casing ft. MSL)	72110	----	----
Elevation of Groundwater Surface (ft. MSL)	71993	----	----
Elevation of Bottom of Well (ft. MSL)	72020	----	----

INDICATOR PARAMETERS	STORETS	MAPC	AGQS
Ammonia (as Nitrogen) (Dissolved mg/L)	00608	1.886	1.886
Arsenic (Dissolved ug/L)	01000	23	23
Boron (Dissolved) ug/L	01020	107.6	107.6
Cadmium (Dissolved) ug/L	01025	40	40
Chloride (Dissolved, mg/L)	00941	261.7	261.7
Chromium (Dissolved, ug/L)	01030	4	4
Cyanide (mg/L) (Total)	00720	0.033	0.033
Lead (Dissolved) ug/L	01049	5.8	5.8
Iron (Dissolved) ug/L (See Note iv.)	01046	5200	5200
Magnesium (Dissolved, mg/L)	00925	110.3	110.3
Manganese (Dissolved) ug/L	01056	562	562
Mercury (Dissolved, ug/L)	71900	0.2	0.2
Nitrate (as N) (Dissolved) mg/L	00618	25.7	25.7
Phenol (Total) ug/L	32730	89	89
Sulfate (Dissolved, mg/L)	00946	85.16	85.16
Total Dissolved Solids mg/L	70300	800.539	800.539
Zinc (Dissolved) ug/L	01090	20	20

VOLATILE ORGANIC PARAMETERS	STORETS	MAPC	AGQS
Acetone	81552	100	100
Benzene	34030	5	5
Chlorobenzene	34301	5	5
Chloroethane	34311	5	5

Attachment 1

Quarterly Facility AGQS Values (Cont.)

VOLATILE ORGANIC PARAMETERS	STORETS	MAPC	AGQS
Chloroform	32106	5	5
Chloromethane	34418	5	5
p-Dichlorobenzene	34571	5	5
Dichlorodifluoromethane	34668	5	5
1,1-Dichloroethane	34496	5	5
1,2-Dichloroethane	34531	5	5
1,1-Dichloroethene	34501	5	5
cis-1,2-Dichloroethene	77093	5	5
trans-1,2-Dichloroethene	34546	5	5
1,2-Dichloropropane	34541	5	5
Methylene Chloride	34423	5	5
Tetrachloroethene	34475	5	5
Toluene	34010	5	5
1,1,1-Trichloroethane	34506	5	5
Trichloroethene	39180	5	5
Vinyl Chloride	39175	5	5
Xylenes	81551	5	5

Annual Facility AGQS Values

PARAMETERS (ug/L)	STORETS	MAPC	AGQS
UNFILTERED (totals)			
Acenaphthene	34205	5	5
Anthracene	34220	5	5
Acetone	81552	100	100
Acrolein	34210	100	100
Acrylonitrile	34215	200	200
Alachlor	77825	0.1	0.1
Aldicarb	39053	0.5	0.5
Aldrin	39330	0.05	0.05
alpha-BHC	39337	0.05	0.05
Aluminum	01105	1942000	1942000
Ammonia (as N) (mg/L)	00610	1.886	1.886
Antimony	01097	30	30
Arsenic	01002	63	63
Atrazine	39033	2	2
alpha-BHC	39337	0.053	0.053
Bacteria (Fecal Coliform) (col/100ml)	31616	20	20
Barium	01007	4300	4300
Benzene	34030	5	5

Attachment 1

Annual Facility AGQS Values (Cont.)

PARAMETERS (ug/L)	STORETS	MAPC	AGQS
UNFILTERED (totals)			
Benzo(a)anthracene	34526	0.1	0.1
Benzo(a)Pyrene	34247	0.2	0.2
Benzo(b)fluoranthene	34230	0.10	0.10
Benzo(k)fluoranthene	34242	0.10	0.10
Benzoic Acid	77247	150	150
Beryllium	01012	7.2	7.2
BOD (mg/L)	00310	6	6
Boron	01022	200	200
Bromobenzene	81555	5	5
Bromochloromethane (chlorobromomethane)	77297	5	5
Bromodichloromethane	32101	5	5
Bromoform (Tribromomethane)	32104	5	5
Bromomethane (Methyl Bromide)	34413	5	5
Butanol	45265	40	40
n-Butylbenzene	77342	5	5
sec-Butylbenzene	77350	5	5
tert-Butylbenzene	77353	5	5
Butyl Benzyl Phthalate	34292	10	10
Cadmium	01027	32	32
Calcium (mg/L)	00916	2084.418	2084.418
Carbofuran	81405	0.9	0.9
Carbon Disulfide	77041	100	100
Carbon Tetrachloride	32102	5	5
Chemical Oxygen Demand (COD) (mg/L)	00335	2636	2636
Chlordane	39350	0.1	0.1
Chloride (mg/L)	00940	261.712	261.712
Chlorobenzene	34301	5	5
Chloroethane (Ethyl Chloride)	34311	5	5
Chloroform (Trichloromethane)	32106	5	5
Chloromethane (Methyl Chloride)	34418	5	5
bis(chloromethyl)Ether	34268	2000	2000
o-Chlorotoluene	38680	5	5
p-Chlorotoluene	77277	5	5
Chromium	01034	680	680
Chrysene	34320	5	5
Chlorodibromomethane (Dibromochloromethane)	32105	5	5
Cobalt	01037	370	370
Copper	01042	880	880
o-Cresol	77152	10	10
m/p-Cresol	77146	10	10

Attachment 1

Annual Facility AGQS Values (Cont.)

PARAMETERS (ug/L)	STORETS	MAPC	AGQS
UNFILTERED (totals)			
Cyanide (mg/L)	00720	33	33
Dalapon	38432	1	1
DDT	39300	0.1	0.1
Dibenz(a,h)anthracene	34556	0.1	0.1
Dibromomethane (Methylene Bromide)	77596	5	5
Dicamba	82052	5	5
m-Dichlorobenzene (1,3 Dichlorobenzene)	34566	5	5
o-Dichlorobenzene (1,2 Dichlorobenzene)	34536	5	5
p-Dichlorobenzene (1,4 Dichlorobenzene)	34571	5	5
Dichlorodifluoromethane	34668	5	5
Dichloromethane (Methylene Chloride)	34423	5	5
Dieldrin	39380	0.05	0.05
Diethyl Phthalate	34336	10	10
Dimethyl Phthalate	34341	10	10
Di-N-Butyl Phthalate	39110	10	10
Dinoseb (DNBP)	81287	1	1
Endothall	38926	10	10
Endrin	39390	0.1	0.1
bis(2-Ethylhexyl)Phthalate	39100	10	10
Ethylbenzene	78113	5	5
Ethylene Dibromide (EDB)(1,2-Dibromo ethane)	77651	5	5
Fluoranthene	34376	5	5
Fluorene	34381	5	5
Fluoride (mg/L)	00951	760	760
Heptachlor	39410	0.05	0.05
Heptachlor Epoxide	39420	1	1
Hexachlorobutadiene	39702	5	5
Ideno(1,2,3-cd)pyrene	34403	0.1	0.1
Iodomethane (Methyl Iodide)	77424	5	5
Iron	01045	5780496	5780496
Isophrone	34408	10	10
Isopropylbenzene	77223	5	5
p-Isopropyltoluene	77356	5	5
Lead	01051	500	500
Lindane	39782	0.1	0.1
Magnesium (mg/L)	00927	1143.953	1143.953
Manganese	01055	48267	48267
MCPP	38491	5	5
Mercury	71900	3.5	3.5
Methoxyclor	39480	2	2

Attachment 1

Annual Facility AGQS Values (Cont.)

PARAMETERS (ug/L)	STORETS	MAPC	AGQS
UNFILTERED (totals)			
Molybdenum	01129	10	10
MTBE	46491	3.4	3.4
Naphthalene	34696	10	10
Nickel	01067	870	870
Nitrate-Nitrogen (mg/L)	00620	25.7	25.7
Oil(Hexane-Soluble or Equivalent) (mg/L)	00552	17	17
Parathion	39540	10	10
Pentachlorophenol	39032	50	50
Perchlorate	61209	0.05	0.05
pH	00400		
Phenols	32730	89	89
Phosphorous (mg/L)	00665	1.1	1.1
Picloram	39720	1.0	1.0
Polychlorinated Biphenyls	39516	50	50
Potassium (mg/L)	00937	25.998	25.998
n-Propylbenzene	77224	5	5
Pyrene	34469	5	5
Radium-226 (pCi/L)	09501	0.534	0.534
Radium-228 (pCi/L)	11501	0.636	0.636
Selenium	01147	10	10
Silver	01077	70	70
Simazine	39055	4	4
Sodium (mg/L)	00929	47.572	47.572
Styrene	77128	5	5
Sulfate (mg/L)	00945	85.16	85.16
TOC (mg/L)	00680	93.100	93.100
Tetrachloroethylene (Perchloroethylene)	34475	5	5
Tetrahydrofuran	81607	10	10
Thallium	01059	1000	1000
Toluene	34010	5	5
Toxaphene	39400	2	2
Trichloroethylene (Trichloroethene)	39180	5	5
Trichlorofluoromethane	34488	5	5
Vanadium	01087	80	80
Vinyl Chloride	39175	5	5
Vinyl Acetate	77057	50	50
Xylenes	81551	5	5
o-Xylene	77135	5	5
m/p-Xylene	85795	5	5
Zinc	01092	6611	6611

Attachment 1

Annual Facility AGQS Values (Cont.)

PARAMETERS (ug/L)	STORETS	MAPC	AGQS
UNFILTERED (totals)			
1,1,1,2-Tetrachloroethane	77562	5	5
1,1,1-Trichloroethane	34506	5	5
1,1,2,2-Tetrachloroethane	34516	5	5
1,1,2-Trichloroethane (Methylchloroform)	34511	5	5
1,1-Dichloroethane	34496	5	5
1,1-Dichloroethylene	34501	5	5
1,1-Dichloropropene	77168	5	5
1,2,3-Trichlorobenzene	77613	10	10
1,2,3-Trichloropropane	77443	15	15
1,2,4-Trichlorobenzene	34551	10	10
1,2,4-Trimethylbenzene	77222	10	10
1,2-Dibromo-3-Chloropropane (DBCP)	38760	25	25
cis-1,2-Dichloroethylene	77093	5	5
trans-1,2-Dichloroethylene	34546	5	5
1,2-Dichloroethane	34531	5	5
1,2-Dichloropropane (Propylene Dichloride)	34541	5	5
1,3,5-Trimethylbenzene	77226	10	10
1,3-Dichloropropane	77173	5	5
1,3-Dichloropropene	34561	10	10
cis-1,3-Dichloropropene	34704	10	10
trans-1,3-Dichloropropene	34699	10	10
trans-1,4-Dichloro-2-Butene	73547	100	100
1,4-Dioxane	81582	520	520
2,2-Dichloropropane	77170	15	15
2,4,5-TP (Silvex)	39760	2	2
2,4-Dichlorophenoxyacetic Acid (2,4-D)	39730	10	10
2-Butanone(Methyl Ethyl Ketone)	81595	100	100
2-Hexanone (Methyl Butyl Ketone)	77103	50	50
2-Methylnaphthalene	77152	5	5
2-Methylphenol	77152	5	5
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	78133	100	100

NOTE: AGQS and MAPC values have been calculated using a minimum of four (4) consecutive quarters of groundwater monitoring data and calculated at the 99% Upper Confidence Limit.

1950350014 - Prairie Hill RDF
Permit No. 1994-579-LF
Log Nos. 2015-229, 2015-354

Attachment 2 -- Intrawell AGQS Values

Inorganics	Units	Site AGQS	GIC2 AGQS	GIC3 AGQS	GIE2 AGQS	GIM1 AGQS	GIM2 AGQS	GIM3 AGQS	GIL3 AGQS	GIL5 AGQS	GIK2	GIK3	GIL9	GIM0	GIL4	GIL1	GIL2	GIL0	GIK8	GIK9	GIM6	GIM8
Dissolved																						
Cyanide	mg/L	0.033	0.033	0.033	0.033	0.033	0.033	0.033														
Ammonia	mg/L	1.886	1.9	1.886	1.886	1.886	2.76	1.886			5.83						3.82		9.45			
Nitrate	mg/L	25.7	25.7	25.7	25.7	25.7	25.7	25.7														
Phenols	mg/L	89	89	89	89	89	89	89														
TDS	mg/L	800.539	800.539	800.539	800.539	1034	800.539	800.539							406				5846			
Arsenic	ug/L	23	23	23	23	23	23	23				32.66				103			133.1			
BOD	mg/L					19.3	9.4		21.3								16.2					
Boron	ug/L	50	94	95.75	50	78	54.2	50											89.5			
Cadmium	ug/L	40	40	40	40	40	40	40														
Chloride	mg/L	261.7	261.7	261.7	261.7	261.7	261.7	261.7											29.45	3.82		
Iron	ug/L	5200	11460	10800	6797	10800	9537	5200		23,505		30730	6733	12183			8200	6713				
Lead	ug/L	5.8	5.8	5.8	5.8	5.8	5.8	5.8														
Manganese	ug/L	562	562	562	562	562	562	562											493			
Sulfate	mg/L	85.16	113	85.16	85.16	85.16	85.16	85.16				165.6							2196		21	187.5
Zinc	ug/L	20	20	20	20	20	20	20														
Totals																						
Ammonia	mg/L																3.49					
VOCs																						
1,1,1-Trichloroethane	ug/L	5	5	5	5	5	5	5														
1,1-Dichloroethane	ug/L	5	5	13	16	19	5	5						45.4							21	
1,1-Dichloroethene	ug/L	5	5	5	5	5	5	5														
1,2-Dichloroethane	ug/L	5	5	5	5	5	5	5														
1,2-Dichloropropane	ug/L	5	5	5	5	5	5	5														
1,4-Dichlorobenzene	ug/L	5	5	5	5	5	5	5														
Acetone	ug/L	100	100	100	100	100	100	100														
Benzene	ug/L	5	5	5	5	5	5	5														
Chlorobenzene	ug/L	5	5	5	5	5	5	5														
Chloroethane	ug/L	5	5	5	5	250	5	5						71								
Chloroform	ug/L	5	5	5	5	5	5	5														
Chloromethane	ug/L	5	5	5	5	5	5	5														
CIS-1,2-Dichloroethene	ug/L	5	5	5	5	5	5	5													11	
Dichlorodifluoromethane	ug/L	5	5	5	5	5	5	5														
Methylene Chloride	ug/L	5	5	5	5	5	5	5														
Tetrachloroethene	ug/L	5	5	5	5	5	5	5														
Toluene	ug/L	5	5	5	5	5	5	5														
Trans-1,2-Dichloroethene	ug/L	5	5	5	5	5	5	5														
Trichloroethene	ug/L	5	5	5	5	5	5	5														
Vinyl Chloride	ug/L	5	5	5	5	5	5	5														
Xylene	ug/L	5	5	5	5	5	5	5														

SFN:MSS:rec\1950350014-811LF\SM87-2015229-2015354-Att2.xls

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Special Waste Preacceptance Form
(Profile Identification Sheet)

NOTE: Please complete this form online, save a copy locally, print and enter the required signatures. Submit the original, with original signatures to:

Bureau of Land, Permit Section, Mail Code #33
1021 North Grand Avenue East, P.O. Box 19276
Springfield, IL 62794-9276

Facility Information

Name: _____ ID No.: _____

Address 1: _____ Address 2: _____

City: _____ Zip Code: _____

Generator Information

Name: _____ Generator ID No.: _____

Address 1: _____ Address 2: _____

City: _____ State: _____ Zip Code: _____

Mailing Address (if different): _____

Contact Person: _____ Phone Number: _____

SIC Code: _____

Transporter: _____ Transporter Phone: _____

This is a: ☐ Pollution Control Waste ☐ Industrial Process Waste as defined in Section 3 of the Act.

Process Description:

Generic Waste Name: _____

Ultimate Disposal: _____

Analysis

(leave blank any constituent for which analysis has not been conducted)

Physical Characteristics: _____
(e.g. color, odor)

Major Constituents: _____

Waste Phase: _____
(Indicate solid, liquid, semi solid or compressed gas)

Flash Point ^{0}F: _____ Percent Solids: _____

Percent Acidity/Alkalinity: _____ pH (for aqueous wastes (only): _____

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

	Constituent	Regulatory Threshold Level, ppm	PQL (ppm)	Results of the Analysis		Constituent	Regulatory Threshold Level, ppm	PQL (ppm)	Results of the Analysis
D004	Arsenic	5.0			D026	Cresol	200.00		
D005	Barium	100.0			D027	1,4-Dichlorobenzene	7.5		
D006	Cadmium	1.0			D028	1,2-Dichloroethane	0.5		
D007	Chromium	5.0			D029	1,1-Dichloroethylene	0.7		
D008	Lead	5.0			D030	2,4-Dinitrolouene	0.13		
D009	Mercury	0.2			D031	Heptachlor (and its epoxide)	0.008		
D010	Selenium	1.0			D032	Hexachlorobenzene	0.13		
D011	Silver	5.0			D033	Hexachlorobutadiene	0.5		
D012	Endrin	0.02			D034	Hexachloroethane	3.0		
D013	Lindane	0.4			D035	Methyl ethyl ketone	200.0		
D014	Methoxychlor	10.0			D036	Nitrobenzene	2.0		
D015	Toxaphene	0.5			D037	Pentachlorophenol	100.0		
D016	2,4-D (2,4-Dichlorophenoxyacetic acid	10.0			D038	Pyridine	5.0		
D017	2,4,5-TP Silvex	1.0			D039	Tetracholorethylene	0.7		
D018	Benzene	0.5			D040	Trichloroethylene	0.5		
D019	Carbon Tetrachloride	0.5			D041	2,4,5-Trichlorophenol	400.0		
D020	Chlordane	0.03			D042	2,4,6-Trichlorophenol	2.0		
D021	Chlorobenzene	100.0			D043	Vinyl Chloride	0.2		
D022	Chloroform	6.0				Reactive Sulfide			
D023	o-Cresol	200.0				Reactive Cyanide			
D024	m-Cresol	200.0				Phenols			
D025	p-Cresol	200.0				○ EOX ○ TOX			
						PCB's			

The above analysis has been conducted in accordance with SW-846 Test Methods for Evaluation of Solid Waste. I have reviewed the analysis and the attached certification form (if applicable) and determined that the waste will be:

☐ Accepted ☐ Rejected in accordance with the terms of our facility operating permit. In addition, I agree to require the generator to recertify annually that this waste has not changed since the preacceptance analysis was conducted.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Printed Name

Telephone

Signature (Facility operator or duly authorized Agent)

Date

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Annual Generator Special Waste Recertification for Disposal of Special Waste

NOTE: Please complete this form online, save a copy locally, print and enter the required signatures. Submit the original with original signatures to:

Bureau of Land, Permit Section, Mail Code #33
1021 North Grand Avenue East, P.O. Box 19276
Springfield, IL 62794-9276

Generator Name: _____ Illinois ID #: _____

Generic Waste Name: _____

Process Which Generated Waste: _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is true, accurate, and complete. I have used intimate knowledge of our process which generates the waste and certify that neither the process generating the waste nor the chemical or physical characteristics of the waste have changed since the preacceptance analysis was conducted on this waste. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

_____ _____
Printed Name Telephone

_____ _____
Signature (Generator's signature or duly authorized Agent) Date

Note to Generator: Preacceptance analysis must be conducted in accordance with the receiving facilities permit, every five years.

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

EXHIBIT C

COUNTY OF WHITESIDE, IL

RESOLUTION # 6

Amendment to Resolution Regarding Siting of Prairie Hill Recycling and Disposal Facility allowing acceptance of Non-Hazardous Special Waste

---

WHEREAS, the County of Whiteside, Illinois (the "County") is the owner of Prairie Hill Recycling and Disposal Facility; and

WHEREAS, the County adopted a Resolution on September 15th, 1992 which governs the Prairie Hill Recycling and Disposal Facility and restricts the acceptance of Non-Hazardous Special Waste as defined in the Environmental Protection Act(415 ILCS 5/); and

WHEREAS, the County desires to allow for the responsible disposal of Non-Hazardous Special Waste, and;

WHEREAS, the Prairie Hill Recycling and Disposal Facility is trained and equipped to accept Non-Hazardous Special Waste,

THEREFORE, BE IT RESOLVED, BY THE WHITESIDE COUNTY BOARD, that:

Paragraph 1. Conditions for approval number 4 of Resolution #1 adopted September 15th, 1992 be amended as follows:

~~4. No special wastes shall be accepted for disposal at the facility.~~

Paragraph 2. This Ordinance and every provision thereof shall:

Section 1. Be considered separable and the invalidation of any provision(s) shall not affect the validity of the remainder.

Section 2. Supersede any other Ordinance or Resolutions or parts thereof, in conflict herewith.

Section 3. Go into effect immediately upon passage.

PASSED, APPROVED AND ADOPTED, THIS 18TH DAY OF AUGUST, 2015 A.D.
BY AND FOR THE WHITESIDE COUNTY BOARD

James C. Duffy, Chair

ATTEST:

Dana Nelson, Clerk

EXHIBIT D

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397
JB PRITZKER, GOVERNOR JOHN J. KIM, DIRECTOR

217/524-3301

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
7018 1830 0000 5290 5955

JUN 03 2020

The County of Whiteside
Attn: Russell Renner
200 E. Knox St.
Morrison, Illinois 61270-9587

Waste Management of Illinois, Inc.
Attn: Mike Wiersema
18762 Lincoln Road
Morrison, Illinois 61270-9587

Re: 1950350014 -- Whiteside County
Prairie Hill RDF
Permit No. 1994-579-LF
Modification No. 107
Log No. 2019-480
Expiration Date: July 15, 2020
Permit Landfill 811 File
Permit Approval

Dear Mr. Renner and Mr. Wiersema:

Permit has been granted to the County of Whiteside as owner and Waste Management of Illinois, Inc., as operator, approving development of new municipal solid waste landfill all in accordance with the application and plans provided in Application Log No. 1994-579, specifications, application, and supporting documents, as submitted and approved, shall constitute part of this permit and are identified in the records of the Illinois Environmental Protection Agency (Illinois EPA), Bureau of Land, Division of Land Pollution Control by the permit number and log number designated in the heading above.

Permit No. 1994-579-LF, issued on July 10, 1995, approved the development of a new putrescible waste landfill unit pursuant to 35 Ill. Adm. Code Subtitle G Chapter I Subchapter i Parts 811, 812, and 813. This 813 landfill is designed to handle municipal solid waste and non-hazardous special waste, with a disposal area of approximately 229 acres and will have a final peak elevation of 877 feet above mean sea level with an estimated air space capacity (excluding final cover) of 28,300,000 cubic yards. This should provide for the disposal of an estimated 49,800,000 gate yards. Additionally, Permit No. 1994-579-LF approved:

A. The Significant Modification of the development and operation of this landfill so as to comply with the applicable requirements of Title 35, Illinois Administrative Code (hereinafter 35 IAC), Subtitle G, Parts 811 and 812, pursuant to 35 IAC, Sections 813.101;

B. Transfer of landscape waste and recyclables; and

C. Acceptance of special waste streams without individual special waste stream authorizations, in accordance with the special conditions listed in Part III of this permit.

Note: Modification No. 25 to Permit No. 1994-579-LF reduced the disposal area from approximately 229 acres to approximately 226.6 acres. This reduction in disposal area is due to redesign of the landfill proposed in application Log No. 2001-229 and approved in Modification No. 25.

Modification No. 107 is hereby granted to the County of Whiteside as owner and Waste Management of Illinois, Inc. as operator, allowing modification of an existing municipal solid waste landfill all in accordance with application Log No. 2019-480, prepared, sealed, and signed on December 12, 2019, by Bernadette G. Sarmiento, P.E., of Waste Management of Illinois, Inc.

The permit application approved by Modification No. 107 consists of the following documents:

DOCUMENT	DATED	DATE RECEIVED
Original Application Log No. 2019-480	December 12, 2019	December 16, 2019
Extension	March 6, 2020 April 10, 2020	March 10, 2020 April 14, 2020
Additional Information	April 24, 2020	April 29, 2020

Modification No. 107 to Permit No. 1994-579-LF approves the proposal to construct a conceptual leachate evaporator system.

Except for the differences described in the table below, the special conditions in Modification No. 107 to Permit No. 1994-579-LF are identical to the special conditions in Modification No. 105, issued December 11, 2019.

Special Condition No. in Modification No. 105	Special Condition No. in Modification No. 107	Description of Revision
IV.7	IV.7	Referenced Log No. 2020-110 as a pending application.
N/A	V.14	Added new condition.
VIII.8	VIII.8	Referenced Log No. 2020-152 as a pending application.

Pursuant to Section 39(a) of Illinois Environmental Protection Act (Act) [415 ILCS 5/39(a)] and 35 Ill. Adm. Code, 813.104(b), this permit is issued subject to the development, operating and reporting requirements for non-hazardous waste landfills in 35 Ill. Adm. Code, Parts 810, 811, 812, 813 and 814 the standard conditions attached hereto, and the following special conditions. In

case of conflict between the permit application and these conditions (both standard and special), the conditions of this permit shall govern.

I. CONSTRUCTION QUALITY ASSURANCE

1. All necessary surface drainage control facilities shall be constructed prior to other disturbance in any area.

2. No part of the new unit shall be placed into service until a acceptance report for all the activities listed below has been submitted to and approved by the Illinois EPA as a significant modification pursuant to 35 Ill. Adm. Code, 811.505(d) and 813.203. A separate significant modification for operating authorization will be required for each additional area/structure constructed.

   a. Compaction of the subgrade and foundation to design parameters;

   b. Installation of the compacted earth liner;

   c. Installation of a geomembrane;

   d. Installation of the leachate drainage, collection and management systems;

   e. Application of final cover;

   f. Installation of gas control facilities; and

   g. Construction of ponds, ditches, lagoons and berms.

3. The permittee shall designate an independent third party contractor as the Construction Quality Assurance (CQA) Officer(s). The CQA Officer(s) shall be an Illinois Certified Professional Engineer who is independent from and not under the control or influence of the operator, any employee of the operator, or any other corporation, company or legal entity that is a subsidiary, affiliate, parent corporation or holding corporation associated with the operator.

4. Except as provided below, the CQA Officer(s) designated pursuant to Condition I.3 shall personally be present during all construction and testing that is subject to CQA certification pursuant to 35 Ill. Adm. Code 811.503(a). If the CQA Officer(s) is unable to be present as required, then a written explanation and signed statement must be provided pursuant to 35 Ill. Adm. Code 811.503(b).

5. The clay portion of the liner shall be tested for density and moisture content at the rate of five tests per lift per acre.

6. If the clay portion of the liner has been exposed to freezing conditions, it must be retested pursuant to 35 Ill. Adm. Code 811.321(b)(4) at the rate of one laboratory

permeability test on an undisturbed sample per acre. The designated CQA officer(s) shall then certify that the clay portion of the liner and all necessary repairs to the geomembrane and leachate drainage layer meet the required design standards. This certification must be provided to the Illinois EPA prior to disposal of waste on the subject portion of the liner. If operating authorization has not yet been issued for that area, the recertification shall be included in the application for Significant Modification of Permit to Obtain Operating Authorization for that area.

7. The CQA Officer's acceptance report for each area proposed for operating authorization shall include a certification that a temporary leachate containment/stormwater diversion berm has been constructed around the perimeter of the area proposed for operation. The berm shall be a minimum of four (4) feet in height and be placed as required to prevent leachate accumulations from flowing into the stormwater drainage and control system and prevent stormwater from flowing into the leachate collection system.

8. Applications for operating authorization shall not be made for areas of less than 1.5 acre increments.

9. All standards for testing the characteristics and performance of materials, products, systems and services shall be those established by the American Society for Testing and Materials (ASTM) unless otherwise stated in the permit application.

10. Pursuant to 35 Ill. Adm. Code, Section 811.505(d), upon completion of construction of each major phase, the CQA Officer(s) shall submit an acceptance report to the Illinois EPA. The acceptance report shall be submitted before the structure is placed into service and shall contain the following:

    a. A certification by the CQA Officer(s) that the construction has been prepared and constructed in accordance with the engineering design;

    b. As-built drawings; and

    c. All daily summary reports.

11. The incremental development procedure described in Application Log No. 1997-432 is hereby approved. The following procedure may be used for the completion of the drainage layer and associated filter over a sidewall liner that does not include geosynthetic clay liner and for which a significant modification to operate has been obtained.

    a. The operator shall maintain a minimum "freeboard" of one (1) foot between the top edge of the drainage layer the waste.

    b. Just prior to installing an increment of the drainage layer, the sidewall liner in that area shall be inspected. Any areas damaged shall be reconstructed

in accordance with the Construction Quality Assurance program approved by this permit.

c. After each increment of the drainage layer and filter up the sidewall is completed, the operator shall provide written notification and documentation of its completion to the Illinois EPA's Rockford Regional Office. Upon receipt of the notification, the inspector shall be allowed fifteen days to examine the construction. The Illinois EPA is not obligated to approve the construction or certification. The operator may dispose of refuse against the new increment of drainage layer and filter after the fifteen day period if, having complied with the terms of this condition, the operator is not informed of a problem by the Illinois EPA or its agents.

d. At the same time the Rockford Regional Office or delegated government is given notification that an increment of the sidewall drainage layer and filter has been completed, the Permit Section shall be provided with the information required in an Acceptance Report pursuant to 35 Ill. Adm. Code, 811.505(d) on its construction.
(Modification No. 9 – Revised Modification No. 59)

12. All stakes and monuments marking property boundaries and the permit area shall be maintained, inspected annually and surveyed no less frequently than once in five years by a professional land surveyor. Any missing or damaged stakes or monuments discovered shall be replaced and resurveyed.

13. Effective upon issuance of Modification No. 65 (Log No. 2011-548), all testing, including conformance and seaming, of the geomembrane used shall meet the Geosynthetic Research Institute's requirements with the following exceptions: For the geomembrane used in the bottom liner, the minimum thickness must be within 5% of nominal for all samples, i.e. 60 mil liner must be at least 57 mil; and UV resistance testing is not necessary unless the geomembrane is exposed for more than 30 days.

14. The alternate liner design approved in Modification No. 59 (Log No. 2009-535) allows the incorporation of Geosynthetic Clay Liner (GCL). Table 12-4 of the CQA Plan includes conformance testing requirements for the GCL. Except for permeability, all the GCL properties listed in Table 12-4 of the CQA plan should be tested at least once for every phase of alternate liner construction by an independent third party laboratory. GCL permeability shall be tested at least once per 100,000 square feet or once per production lot whichever dictates a higher frequency by an independent third party laboratory.

15. Operating permit applications for new liners that include GCLs must demonstrate that the internal shear strength of the GCL is greater than the interface strength for GCL/clay liner and geomembrane/GCL interfaces. Both these properties are

included in Table 12-4 of the CQA plan provided in the addendum dated March 17, 2010 to application Log No. 2009-535.

16. GCL used on the liner sideslopes shall have minimum peel strength of 12 lbs/inch.

17. The composite liner and leachate collection systems at this landfill consist of the following (descriptions are from top to bottom):

Option A
- 4 oz/yd^2 filter geotextile
- 1-foot thick leachate drainage layer
- 10 oz/yd^2 cushion geotextile
- 60 mil HDPE textured geomembrane
- 3-foot thick compacted clay with hydraulic conductivity no greater than 1 x 10^{-7} cm/sec.

Option B
- 4 oz/yd^2 filter geotextile
- 1-foot thick leachate drainage layer
- 10 oz/yd^2 cushion geotextile
- 60 mil HDPE textured geomembrane
- Geosynthetic Clay Liner (GCL) with hydraulic conductivity no greater than 5 x 10^{-9} cm/sec (2 layers of GCL in all leachate trenches and sumps)
- 3-foot thick compacted clay with hydraulic conductivity no greater than 1 x 10^{-5} cm/sec.

II. OPERATING CONDITIONS

1. Pursuant to 35 Ill. Adm. Code, 811.107(a) and 811.107(b), throughout the operating life of this landfill, waste shall not be placed in a manner or at a rate which results in unstable internal or external slopes or interference with construction, operation or monitoring activities.

2. The operator of this solid waste facility shall not conduct the operation in a manner which results in any of the following:

   a. refuse in standing or flowing waters;

   b. leachate flows entering waters of the State;

   c. leachate flows exiting the landfill confines (i.e., the facility boundaries established for the landfill in a permit or permits issued by the Illinois EPA);

d. open burning of refuse in violation of Section 9 of the Environmental Protection Act;

e. uncovered refuse remaining from any previous operating day or at the conclusion of any operating day, unless authorized by permit;

f. failure to provide final cover within time limits established by Board regulations;

g. acceptance of wastes without necessary permits;

h. scavenging as defined by Board regulations;

i. deposition of refuse in any unpermitted (i.e., without an Illinois EPA approved significant modification authorizing operation) portion of the landfill;

j. failure to submit reports required by permits or Board regulations;

k. failure to collect and contain litter from the site by the end of each operating day.

l. failure to submit any cost estimate for the site or any performance bond or other security for the site as required by Section 21.o.13 of the Illinois Environmental Protection Act.

3. Moveable, temporary fencing shall be used to prevent blowing litter when the refuse is above the natural ground line.

4. At the end of each day of operation all exposed waste shall be covered with clean soil at least six (6) inches thick or an approved alternate daily cover.

5. Geotextile fabric panels, thick degradable plastic sheets, clean construction and demolition debris, contaminated soil, and auto fluff, are approved for use as alternate daily cover materials pursuant to the plans in application Log Nos. 1994-579, 1996-101, 2001-456, 2008-373, 2016-035, and the conditions listed below. Use of these alternate materials shall be subject to the specific performance based criteria for each alternate daily cover materials as proposed in application Log Nos. 2001-456, 2008-373, and 2016-035, and to the following conditions:

a. The operator shall keep a record when an alternate cover is used and include a description of the type of alternate cover, weather conditions and its performance. A summary of this information shall be provided with this facility's annual reports.

b. Geotextile fabric panels and plastic sheets shall be anchored adequately to prevent the wind from damaging the integrity of the daily cover. If the material is torn during or after placement, it must be repaired immediately or the damaged area covered with six inches (6") of daily cover soil. If tires are used as weights for the alternate daily cover, they shall be altered or converted tires, in accordance with Title 35 Ill. Adm. Code Subtitle G, Part 848: Management of Used and Waste Tires.

c. If weather or other conditions exist that adversely affect the ability of the alternate cover to prevent blowing litter, susceptibility to fire, odors, or vectors, six inches (6") of daily cover soil shall be used.

d. If any alternate materials other than those approved by this permit are to be used, they must be approved by the Illinois EPA through the permit process pursuant to 35 Ill. Adm. Code, 811.106(b), 812.111(b) and 813.201(a).

e. Any alternate daily cover, which has been used for daily cover, shall not be used for any other purpose (including road underlayment and erosion control) outside of the permitted waste boundaries.

f. All alternate daily covers must meet the requirements of 35 Ill. Adm. Code, 811.106(b)(1) through (4) at all times.

g. The condition of the alternate daily cover materials used as daily cover shall be inspected at the beginning of each shift to determine if its integrity or continuity has been damaged by sun exposure, wind or physical contact. If the inspection reveals that the structural integrity or continuity has been damaged or if uncovered refuse is observed in the covered areas the damaged or uncovered areas shall be repaired immediately to restore a continuous uniform cover over the waste. If any problems develop from covering the waste with a particular alternate daily cover, the use of the offending cover shall immediately cease until the cause of the problem is determined and necessary corrective action taken. A record of the inspection and subsequent corrective action taken shall be made available to the Illinois EPA personnel upon request.

h. When an alternate daily cover reaches the end of its useful life and can no longer meet the requirements of 35 Ill. Adm. Code, 811.106(b)(1) through (4), it shall be removed and/or replaced with six (6) inches of cover soil or an approved alternate daily cover.

i. If the Illinois EPA's Rockford Regional Office determines that any alternate daily cover material is not performing satisfactorily as daily cover, the operator shall cease using it as daily cover immediately upon receipt of a written notification of such determination.

6. The following conditions apply when clean construction and demolition debris is used as alternate daily cover:

   a. Clean construction or demolition debris shall meet the definition from Section 3.160(b) of the Act

   b. Clean construction or demolition debris shall be placed in a manner that does not leave unacceptably large voids or open passages to the waste mass.

   c. A minimum thickness of six inches of clean construction or demolition debris shall be applied as alternate daily cover.

   d. If the clean construction or demolition debris becomes eroded after placement, it will be repaired immediately or the damaged area will be covered with six inches of daily cover soil or an approved alternate daily cover.

   e. Clean construction or demolition debris shall not be removed after use as an alternate daily cover.

   f. Storage of clean construction or demolition debris for use as alternate daily cover is further subject to the following conditions:

      i. Storage shall not exceed 10,000 cubic yards at any time.

      ii. Storage shall occur within the landfill waste footprint and shall not exceed the permitted final waste contours.

      iii. Any single stockpile shall not exceed a storage time of six (6) months. After six (6) months, the debris shall be used as alternate daily cover or disposed in the landfill.

7. The following conditions apply when contaminated soil is used as alternate daily cover:

   a. Only contaminated soil that has been classified in accordance with the requirements in Section 22.48 of the Act may be used as alternate daily cover.

   b. Use of contaminated soil as alternate daily cover shall be limited to areas where runoff will be collected by the leachate collection system.

c. Contaminated soil shall not be stockpiled. Excess soil beyond the amount needed at the end of the day of operation as daily cover shall be disposed in the landfill.

d. Contaminated soil with obnoxious odors shall not be used as alternate daily cover. Each load of contaminated soil to be used as alternate daily cover shall be inspected to ensure use as daily cove will not generate obnoxious odors and shall prevent the threat of fires.

e. Contaminated soil shall not be removed after use as alternate daily cover.

f. In addition to the recordkeeping requirements of Special Conditions II.5(a) and II.5(g) the operator shall keep a record of the date of use as daily cover, a description of the contaminant, generator name and number, daily cover use location and quantity used.

8. The following conditions apply when auto fluff is used as alternate daily cover:

a. The landfill operator is responsible for:

i. Ensuring that auto fluff (aka shredder fluff), which is used as ADCM, remains in the landfill and is not released or dispersed by wind or other action; and

ii Complying with all applicable Federal, State, and local laws and regulations.

b. The landfill operator must ensure that all shredder fluff used as ADCM: i) is generated at shredding facilities that have operating plans in place to remove components that may contain PCB's (polychlorinated biphenyls) and other contaminants, and ii) is produced in adherence with the operating plans. Such operating plans must include the following concerning recyclable metals processing and components which may contaminate waste from shredding recyclable metals (such as lead acid batteries, fuel tanks, or components that contain or may contain PCB's in a closed system such as a capacitor or ballast):

i. Procedures for inspecting recyclable metals when received to assure that such components are identified;
ii. A list of equipment and removal procedures to be used to assure proper removal of such components;
iii. Procedures for safe storage of such components after removal and any waste materials;
iv. Procedures to assure that such components and waste materials will only be stored for a period long enough to accumulate the proper quantities for off-site transportation;

v. Identification of how such components and waste materials will be managed after removal from the site to assure proper handling and disposal;
vi. Procedures for sampling and analyzing waste intended for disposal or off-site handling as a waste; and
vii. A demonstration, including analytical reports, that any waste generated is not a hazardous waste and will not present a potential threat to human health or the environment.

c. The following special conditions apply to the use of shredder fluff as ADCM:
i. When shredder fluff is used as ADCM, it must be applied in a continuous layer at least six inches thick;
ii. Shredder fluff from the Pielet Brothers site in Summit, Illinois, cannot be used as ADCM;
iii. Only shredder fluff that was generated after the effective day of, and in compliance with, the PCB Mega Rule (63 FR 35383), promulgated on June 29, 1998, can be used as ADCM;
iv. Shredder fluff acceptable for disposal at a RCRA Subtitle D landfill and used in compliance with 40 CFR Part 761, can be used as ADCM;
v. Once applied as ADCM, shredder fluff shall not be removed;
vi. Areas where shredder fluff is used as ADCM, must be covered with either conventional soil daily cover or additional waste within a 24-hour period of initial placement;
vii. No stockpiling of shredder fluff is allowed. All shredder fluff received each day must be used as daily cover or disposed of at the active face;
viii Use of shredder fluff as ADCM shall be limited to areas where runoff will be collected by the leachate collection system;
ix. Shredder Fluff with obnoxious odors shall not be used as ADCM. Each load of shredder fluff to be used as ADCM shall be inspected to ensure use as ADCM will not generate obnoxious odors and shall prevent the threat of fires; and
x. In addition to the recordkeeping requirements of Special Conditions II.5(a) and II.5(g) the operator shall keep a record of the date of use of shredder fluff as ADCM, generator name and number, ADCM use location, and quantity used.

9. No later than 60-days after the placement of final lift of waste in any area, the area shall receive a final cover meeting the design specifications proposed in permit application Log Nos. 1994-579, 1999-052, 2001-229, 2007-105 and 2009-535. The final cover system for the entire facility consists of the following layers from bottom of the cover to top of cover:
- 1-foot of compacted clay with hydraulic conductivity no greater than 1 x 10^{-6} cm/sec.
- 40-mil HDPE geomembrane (textured on slopes greater than 10%)
- Geocomposite drainage layer.

- 2.5-feet thick final protective cover.
- 6-inch vegetative soil layer. Compost may be used as a soil amendment in this layer. However, it must be thoroughly incorporated and shall not constitute more than fifty percent of the soil/compost mixture.

10. All waste, which is not covered within 60 days of placement of another lift of waste or final cover, shall have an intermediate cover of compacted clean soil with a minimum thickness of one (1) foot applied to it.

11. The operator shall implement the approved load checking program pursuant to 35 Ill. Adm. Code, 811.323. When dumping loads for inspection, care shall be taken to keep the waste being inspected isolated and prevent mixing or infiltrating into the landfill proper until it has been determined by the trained load checker that no prohibited wastes are present. If regulated hazardous waste or other unacceptable wastes are discovered, the Illinois EPA shall be notified no later than 5:00 p.m. the next business day after the day it is detected. The load checker shall prepare a report describing the results of each inspection. A summary of these reports shall be submitted to the Illinois EPA as part of this facility's annual report.

12. Operating hours (gate hours) are those hours during which waste may be accepted. For this facility, the operating hours shall be limited to 5.30 a.m. - 8:00 p.m., Monday through Saturday. On Sundays and major holidays this facility shall not operate.

13. The operation of this facility shall not cause a violation of the Noise Control Regulations in 35 Ill. Adm. Code Subtitle H, Section 901.

14. The use of trailer tippers as described in Application Log No. 1996-101 is hereby approved. (Modification No. 1)

15. All solid waste disposal fees paid pursuant to Section 22.15(b) and/or 22.44(b) of the Illinois Environmental Protection Act must be made on a volume basis unless an on-site certified scale is used to determine the weight basis. (Modification No. 3)

16. No waste shall be accepted for disposal unless all necessary equipment, including compactor(s), are available for use on-site when the waste is received. (Modification No. 3)

17. Management of Unauthorized Waste

    a. Landscape waste found to be mixed with municipal waste will be removed the same day and transported to a facility that is operating in accordance with the Act, Title V, Section 21.

b. Lead-acid batteries will be removed the same day and transported either to a drop-off center handling such waste, or to a lead-acid battery retailer.

c. Potentially infectious medical waste (PIMW) found to be mixed with municipal waste shall be managed in accordance with 35 Ill. Adm. Code, Subtitle M.

d. Tires found to be mixed with municipal waste shall be removed and managed in accordance with 35 Ill. Adm. Code, Part 848.

e. White good components mixed with municipal waste shall be removed and managed in accordance with Section 22.28 of the Act.

f. This facility is prohibited from disposing any waste containing polychlorinated bi-phenyls (PCBs) in concentration greater than allowed, pursuant to the Toxic Substance Control Act (TSCA).

g. No liquid waste as determined by the Paint Filter Test shall be disposed unless the waste is from a household or is in a small container similar in size to that normally found in household waste and the container was designed for use other than storage. The prohibition applies to on-site generated wastes except for leachate or gas condensate that is specifically approved for recirculation into the landfill by permit. However, minor amounts of liquid resulting from precipitation (rain, sleet, hail or snow) during transport and disposal operations shall not be construed as a violation of this condition.

h. In accordance with Section 21.6 of the Act, beginning July 1, 1996, no owner or operator of a sanitary landfill shall accept liquid used oil for final disposal that is discernable in the course of prudent business operation.

i. In accordance with Subsection 95(b) of the Electronics Products Recycling and Reuse Act (415 ILCS 150), *beginning January 1, 2012, no person may knowingly cause or allow the disposal of a CED* [covered electronic device] *or any other computer, computer monitor, printer, television, electronic keyboard, facsimile machine, videocassette recorder, portable digital music player, digital video disc player, video game console, electronic mouse, scanner, digital converter box, cable receiver, satellite receiver, digital video disc recorder, or small-scale server in a sanitary landfill*, except as may be allowed by a waiver obtained pursuant to Subsection 95(e) of the Electronics Products Recycling and Reuse Act.

j. In accordance with Section 22.54(a) of the Illinois Environmental Protection Act (415 ILCS 5/1 et seq.), beginning January 1, 2014*: No owner or operator of a sanitary landfill that is located within a 25-mile radius of a site where asphalt roofing shingles are recycled under a*

Beneficial Use Determination (BUD) issued by the Agency pursuant to Section 22.54 of this Act shall accept for disposal loads of whole or processed asphalt roofing shingles. Nothing in this Section [Section 22.54a] shall prohibit or restrict a sanitary landfill from accepting for disposal asphalt roofing shingles that are commingled with municipal waste, including, but not limited to, general construction or demolition debris. A map showing the locations of the permitted, operating, non-hazardous waste landfills in Illinois with respect to the sites that have current BUD's from the Agency to recycle asphalt roofing shingles can be viewed at: http://illinois-epa.maps.arcgis.com/home/webmap/viewer.html?webmap=582fd9fce53f4b708b4b1c1d87d8f67d .

k. After the unauthorized waste has been removed, a thorough cleanup of the affected area will be made according to the type of unauthorized waste managed. Records shall be kept for three (3) years and will be made available to the Illinois EPA.

18. Waste disposal operations shall be restricted to areas of the landfill specifically approved by the Illinois EPA for operation or granted operating authorization pursuant to 35 Ill. Adm. Code 813.203. Such areas at this landfill are presently limited to:

a. The approximately 6.5 acres of Cell 1, Phase I, in accordance with the application and plans provided in Permit Application Log No. 1996-205 and approved by Modification No. 3.

b. The approximately 6.5 acres of Cell 2, Phase I, in accordance with the application and plans provided in Permit Application Log No.1996-359 and approved by Modification No. 4. This includes additional information (Sections 1-2 and 4-6) received November 18, 1996 as part of Application Log No. 1996-389.

c. The approximately 6.2 acres of Cell 1, Phase 2, in accordance with the application and plans provided in Permit Application Log No. 1998-383 and approved by Modification No. 13.

d. The approximately 6.1 acres of Cell 2, Phase 2, in accordance with the application and plans provided in Permit Application Log No. 2000-192 and approved by Modification No. 18.

e. The approximately 6.0 acres of Cell 1, Phase 3, in accordance with the application and plans provided in Permit Application Log No. 2001-332 and approved in Modification No. 22.

f. The approximately 9.4 acres of Cell 1, Phase 4, in accordance with the application and plans provided in Permit Application Log No. 2002-333 and approved in Modification No.28.

g. The approximately 6.9 acres of Cell 2, Phase 4, in accordance with the application and plans provided in Permit Application Log No. 2003-391 and approved in Modification No. 30.

h. The approximately 8.5 acres of Cell 1 South, Phase 5, in accordance with the application and plans provided in Permit Application Log No. 2005-382 and approved in Modification No. 38.

i. The approximately 9.61 acres of Cell 1 North, Phase 5, in accordance with the application and plans provided in Permit Application Log No. 2006-422 and approved in Modification No. 43.

j. The approximately 17.4 acres of Cell 2, Phase 5, in accordance with the application and plans provided in Permit Application Log No. 2007-447 and approved in Modification 49.

k. The approximately 10.5 acres of Cell 3 East, Phase 5 in accordance with application and plans provided in Permit Application Log No. 2010-331 and approved in Modification No. 57.

l. The approximately 7.1 acres of Cell 3 West, Phase 5 in accordance with application and plans provided in Permit Application Log No. 2011-373 and approved in Modification No. 64.

m. The approximately 8.8 acres of Cell 2, Phase 7, in accordance with the application and plans provided in Permit Application Log No. 2012-430 and approved in Modification No. 69.

n. The approximately 7.4 acres of Cell 1-west, Phase 7, in accordance with the application and plans provided in Permit Application Log No. 2013-360, and approved in Modification No. 76.

o. The approximately 5.2 acres of Cell 1-east, Phase 7, in accordance with the application and plans provided in Permit Application Log No. 2014-351, and approved in Modification No. 80.

p. The approximately 7.6 acres of Phase 6-west, in accordance with the application and plans provided in Permit Application Log No. 2015-156, and approved in Modification No. 89.

q. The approximately 5.5 acres of Phase 6-east, in accordance with the application and plans provided in Permit Application Log No. 2017-435, and approved in Modification No. 98.

19. Washing of landfill operating equipment with a low volume, high pressure washer as proposed in application Log No. 2004-047 is hereby approved, subject to the following conditions:

a. The spent spray from washing landfill operating equipment is leachate, as defined in 35 Ill. Adm. Code 810.103 and shall be managed as such; and

b. This activity shall be limited to the wash bay located within the maintenance building (Log No. 2011-441) and active disposal areas of the landfill.

20. Landscape waste (Yardwaste) transfer areas shall be operated in accordance with the following conditions (Log Nos. 2006-474 and 2011-441):

a. Landscape waste transfer areas shall be located next to the citizen drop-off area (in a roll-off box) and in the area identified as Yardwaste Pad in application Log No. 2006-474;

b. At the end of each day of operation all landscape waste stored in the roll-off box shall be covered with a water proof tarp. When the use of water-proof tarp as cover is permanently discontinued, then a permanent cover, in the form of a metal roof, shall be installed over Yardwaste Pad. Water proof tarp over the roll-off box is not required if it is placed under the metal roof. Storage shall not exceed 3-days;

c. If odors are observed, landscape waste shall be covered with a waterproof tarp and taken to a compost facility the same day the problem is identified. Alternatively, odor suppressant may be sprayed on the material to address the problem. In any case odor problems must be addressed the same day they are identified;

d. Berms shall be constructed around the landscape waste transfer area to control surface water run-off; and

e. Landscape waste shall be confined within the transfer areas identified above. This may be achieved by the use litter fencing, berms, tarps and litter pickers.

21. The storage of loaded transfer trailers at the facility is hereby approved as proposed in application Log No. 2006-398 and subject to the following conditions:

a. The loaded transfer trailers shall be stored only on the transfer trailer storage area located south of the maintenance shop and identified in the addendum dated December 15, 2006 to application Log No. 2006-398;

b. The surface of the transfer trailer storage pad shall consist of concrete or asphalt at least 6-inches thick and shall be sloped to a catch basin. The catch basin shall be equipped with a valve to close off the discharge culvert. If evidence of leaky containers or leachate is observed the catch basin valve shall remain closed and the collected liquid shall be managed as leachate;

c. The containers shall be covered with tarps at all times;

d. All the waste in the parked trailers shall be disposed at the active face of the landfill the next operating day;

e. Trailers containing odiferous loads shall be disposed the same day or at the beginning of the next operating day. Additionally, the operator shall implement odor control measures like using solid tarps to control odors from these loads;

f. No more than 30 transfer trailers shall be parked overnight;

g. The operating hours of the transfer trailer storage area is 5:00 a.m. to 10:00 p.m. Monday through Saturday. A security gate and fencing as described in application Log No. 2006-398 shall be installed to prevent any illegal dumping outside of the landfill operating hours;

h. When waste disposal operations at the landfill are suspended or cease, storage of transfer trailers loaded with waste shall be discontinued.

i. Upon completion of construction of the transfer trailer storage pad the operator shall provide a written notification of its completion to the Illinois EPA's Rockford Regional Office. Upon receipt of notification, the inspection shall be allowed fifteen working days to examine the construction. The Illinois EPA is not obligated to approve the construction or certification. The operator may begin to store waste transfer trailers on the storage pad if, the operator is not informed of a problem by the Illinois EPA or its agents; and

j. At the same time the Illinois EPA's Rockford Regional Office is given notification that the transfer trailer storage pad has been completed, the Permit Section shall be provided with the information on its construction in an Acceptance Report pursuant to 35 Ill. Adm. Code 811.505(d) on its construction. (Modification No. 45)

22. The following recommendations for interim slope approved in Permit No. 1994-579-LF remain in effect and must be complied with:

    a. The overall maximum height of the interim slope height should not exceed 90-feet;

    b. Minimum base length required for any given slope height is 5-times the height of the interim slope.

23. Modification No. 60 to Permit No. 1994-579-LF approves a revised phasing plan as proposed in application Log No. 2011-080. Under the revised phasing plan, the filling shall progress as follows: Phase 7-West, Phase 7-East, Phase 6-West, Phase 6-East, Phase 8-Cell 1, Phase 8-Cell 2, Phase 8-Cell 3, Phase 9, and Phase 10.

24. Road building materials used to construct roads at the facility that are not solid waste may be stockpiled on-site in the amount estimated to be needed within the next construction season provided they are managed in accordance with 35 IAC, Section 811.108(c)(1).

25. Asbestos debris from construction-demolition shall be managed in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAPS) regulations.

26. If it is required for the facility to be open beyond normal operating hours to respond to emergency situations, a written record of the date(s), times and reason the facility was open shall be made part of the operating record for the facility. The Illinois EPA-FOS Regional Office, and when applicable, the county authority responsible for inspections of this facility per a delegation agreement with the Illinois EPA, shall be notified no later than 5:00 p.m. the next business day following the acceptance of waste outside the specified operating hours.

27. Information developed by the operator but not yet forwarded to the Illinois EPA in a quarterly or annual report shall be kept at or near the facility for inspection by the Illinois EPA or their designee through an intergovernmental agreement upon request during normal working hours.

III. SPECIAL WASTE

1. The permittee is authorized to accept non-hazardous special waste that meets the definition of industrial process waste or pollution control waste as found in Sections 3.235 and 3.335, respectively, of the Illinois Environmental Protection Act, in accordance with the following requirements:

a. The waste is analyzed in accordance with the requirements described below and complies with the acceptance criteria in the approved waste analysis plan;

b. The waste is delivered by an Illinois licensed special waste hauler or an exempt hauler as defined in 35 IAC, Section 809.211; and

c. The waste is accompanied by a manifest, if required.

2. The permittee shall obtain a completed Special Waste Preacceptance Form: http://www.epa.illinois.gov/Assets/iepa/forms/land/manifests/special-waste-preacceptance-form.pdf, and a preacceptance analysis from each generator for each waste to be accepted. In addition, the Annual Generator Special Waste and Recertification for Disposal of Special Waste form http://www.epa.illinois.gov/Assets/iepa/forms/land/manifests/annual-generator-special-waste-recertification.pdf, which certifies the waste has not changed since the last analysis, must be completed and included in the operating record. A complete laboratory analysis must be provided with the exceptions listed below.

Analysis shall be conducted using SW-846 test methods. The waste shall be reanalyzed at least every five years and must identify the actual concentration of each chemical constituent and state of each physical parameter. In all cases, a copy of the lab analysis (on lab letterhead and signed by a responsible party such as the person conducting the analysis or his/her supervisor) must be included in the operating record with the Special Waste Preacceptance Form (Profile Identification Sheet). The analysis may not be greater than one year old at the time. A new analysis is required if the composition of the waste changes (normal variations in waste composition are expected and are not included in this requirement). All waste must be analyzed as follows:

a. The permittee shall obtain the following lab analyses to determine the concentrations of the following parameters.

Paint Filter Test
Flash point
Sulfide (reactive)
Cyanide (reactive)
Phenol (total)
pH
Toxicity Characteristic Constituents

b. The permittee shall obtain analysis for reactive sulfides (H2S) and cyanides (HCN). Waste containing 250 ppm or greater reactive cyanide or 500 ppm or greater reactive sulfide is presumed to be hazardous waste pursuant to 35 IAC, Section 721.123(a)(5) unless specific information to show it does not present a danger to human health or the environment is provided.

Analysis for total sulfide and/or cyanide may be substituted for reactive concentrations if they are equal to or less than 10 ppm. For wastes containing greater than 10 ppm reactive cyanide or reactive sulfide, the permittee shall not accept the waste unless the generator provides a signed and dated statement indicating the following:

i. The waste has never caused injury to a worker because of H_2S and/or HCN generation;

ii. That the OSHA work place air concentration limits for H2S and/or HCN have not been exceeded in areas where the waste is generated, stored or otherwise handled; and

iii. That air concentrations of H2S and/or HCN above 10 ppm have not been encountered in areas where the waste is generated, stored or otherwise handled.

c. The permittee shall obtain analysis for phenols. If the total phenol concentration is greater than 1000 ppm, the waste will be required to be drummed and labeled, unless justification that this precaution is not necessary is provided. The justification must demonstrate skin contact is unlikely during transport or disposal.

d. The permittee shall obtain metals and organics analysis. Either procedure may be utilized (i.e., total or TCLP), but any constituent whose total concentration exceeds the TCLP limit specified in 35 IAC, Section 721.124 must be analyzed using the TCLP test and the results reported, unless an alternative test has been approved by the Illinois EPA. TCLP test methods must be in accordance with SW 846-1311.

e. EXCEPTIONS:

i. The generator may certify that the eight pesticides (D012, D013, D014, D015, D016, D017, D020 and D031) would not reasonably be expected to be present in the waste based on the nature of the process generating the waste.

ii. Petroleum contaminated media and debris from LUST sites subject to corrective action regulation under 35 IAC, Parts 731 and 732 are temporarily exempt from complete TCLP analysis and the generator may limit analyses to flashpoint, paint filter test and TCLP lead.

iii. For off-specification, unused or discarded commercial or chemical products, an MSDS to determine the hazardous constituents present may be provided in lieu of analytical results.

f. CLARIFICATIONS:

Notwithstanding the exception for manufactured gas plant waste contained in 35 IAC 721.124(a), no manufactured gas plant waste shall be disposed in a non-hazardous waste landfill, unless: i) the waste has been tested in accordance with subsection (d) of this special condition, and ii) the analysis has demonstrated that the waste does not exceed the regulatory levels for any contaminant given in the table contained in 35 IAC 721.124(b).

g. Pursuant to 35 IAC 722.111, the generator of a solid waste is required to determine if the waste is hazardous and comply with all applicable hazardous waste regulations. For any waste that has been determined to be hazardous, the results of quality assurance testing for the treatment program, taken at an appropriate frequency to demonstrate the waste is no longer hazardous, must be obtained. Verification that the waste meets the land disposal restrictions must also be documented. These requirements are in addition to the other standard special waste test requirements.

3. Special waste generated due to an emergency situation may be disposed without complete TCLP analysis if:

a. The permittee receives authorization from the Emergency Response Unit of the Illinois EPA at 1-217-782-3637;

b. The permittee ensures that the generator has received an incident number from the Illinois Emergency Management Agency at 1-800-782-7860 within Illinois, or 1-217-782-7860 outside of Illinois; and

c. The waste is analyzed for the chemical constituents required by the Emergency Response Unit.

4. The permittee shall conduct the following analyses for waste received in labeled containers in lab packs, including commingled wastes:

a. Compatibility review in accordance with the procedures identified in USEPA document EPA-600/2-80-076; and

b. MSDS review to determine the hazardous constituents present and appropriate USEPA hazardous waste class.

5. RCRA empty containers received as a special waste are subject to the following conditions:

a. Containers have a rated capacity of less than 110 gallons only.

b. Containers which formerly held 'P' listed hazardous waste must be triple rinsed in accordance with 35Ill. Adm. Code 721.107(b)(3)(A).

c. TSCA regulated quantities of PCBs or empty compressed gas cylinders are not included under this permit. Container which formerly held TSCA regulated quantities of PCBs are subject to the TSCA requirements administered by the USEPA.

d. All containers must meet the definition of empty as described in 35 IAC, Section 721.107(b).

e. Additionally, where possible, a copy of the material safety data sheets for products last present in the container shall be obtained and kept on file.

f. For drums, at least one end must be removed and the drums must be crushed flat.

6. The Special Waste Preacceptance Form http://www.epa.illinois.gov/Assets/iepa/forms/land/manifests/special-waste-preacceptance-form.pdf, shall be utilized for the special waste profile identification requirements of 35 IAC, Section 811.404(a).

7. The Annual Generator Special Waste Recertification for Disposal Special Waste form http://www.epa.illinois.gov/Assets/iepa/forms/land/manifests/annual-generator-special-waste-recertification.pdf, shall be utilized for the special waste recertification requirements of 35 IAC, Section 811.404(b).

8. The operator shall retain all special waste records until the end of the post-closure period in accordance with 35 IAC, Section 811.405.

IV. GENERAL CONDITIONS

1. This permit is issued with the expressed understanding that no process discharge to Waters of the State or to a sanitary sewer will occur from these facilities except as authorized by a permit issued by the Bureau of Water, Permit Section.

2. Site surface drainage, during development, during operation and after the site is closed, shall be managed in accordance with the approved drainage control plan.

3. If changes occur which modify any of the information the Permittee has used in obtaining a permit for this facility, the Permittee shall notify the Illinois EPA. Such changes would include but not be limited to any changes in the names or addresses of both beneficial and legal titleholders to the herein-permitted site. The notification shall be submitted to the Illinois EPA within fifteen (15) days of the change and shall include the name or names of any parties in interest and the

address of their place of abode; or, if a corporation, the name and address of its registered agent.

4. The Illinois EPA reserves the right to require installation of additional monitoring devices, to require analyses for certain parameters, to alter the sample parameters list and to modify the method of evaluating the monitoring results as necessary to fulfill the intent and purpose of the Environmental Protection Act or Pollution Control Board Regulations.

5. This permit is subject to review and modification by the Illinois EPA as deemed necessary to fulfill the intent and purpose of the Environmental Protection Act, and all applicable environmental rules and regulations.

6. Pursuant to 35 Ill. Adm. Code, 813.201(a), any modifications to this permit shall be proposed in the form of a permit application and submitted to the Illinois EPA.

7. Pursuant to 35 Ill. Adm. Code, 813.301, an application for permit renewal shall be filed with the Illinois EPA at least 90 days prior to the expiration date of this permit.

   The Illinois EPA is in receipt of a permit application that purports to address the requirements of this condition. Application Log No. 2020-110 is currently under review and the current decision date is July 9, 2020.

8. The septic fields on this site are approved for the disposal of on-site generated sanitary waste from septic systems. Any disposal of non-sanitary waste such as stormwater runoff, landfill leachate or discharge from service bay drains will cause the septic field to be considered a waste disposal well pursuant to the Underground Injection Control (UIC) regulations. Operators of UIC wells must, at a minimum, submit information to the Illinois EPA pursuant to 35 Ill. Adm. Code 704.148 and 704.149.

9. The soil stockpile locations proposed in Application Log No. 1996-101 are hereby approved. All runoff from the stockpiles shall be managed pursuant to the stormwater management plan and be directed to sedimentation basins as necessary to comply with 35 Ill. Adm. Code, 811.103(a). (Modification No. 1)

10. The transfer of partial ownership of the facility from Waste Management of Illinois, Inc. to Whiteside County is hereby approved (Modification No. 8).

11. The use of a dewatering system for construction as proposed in Application Log No. 1998-104 is hereby approved (Modification No. 10).

12. Current, valid Prior Conduct Certification pursuant to 35 Ill. Adm. Code Part 745 is required for all landfill operators of landfills that require a permit.

13. Landfill Operator Certification pursuant to 68 IAC Part 870 is required for operation of a landfill.

14. The permittee shall submit current 39(i) certifications and supporting documentation with all applications for a permit.

V. LEACHATE MANAGEMENT/MONITORING

1. Pursuant to 35 Ill. Adm. Code, Section 811.309(h)(3), leachate from this MSWLF landfill shall be collected and disposed beginning as soon as it is first produced and continuing for at least 30 years after closure except as otherwise provided by 811.309(h)(4) and (h)(5). Collection and disposal of leachate may cease only when the conditions described in 35 Ill. Adm. Code, Section 811.309(h)(2) have been achieved. Leachate removed from this landfill shall be treated at an Illinois EPA permitted facility in accordance with the leachate management plan proposed in Permit Application Log Nos. 1994-579 and 2001-229.

2. Pursuant to 35 Ill. Adm. Code, Sections 811.307(a) and (b), 811.308(a) and (h), and 811.309(a), leachate shall be pumped from the side slope riser sump(s) before the level of leachate rises above the invert of the collection pipe(s) at its lowest point(s). Leachate removal as such shall be performed throughout the period that the leachate collection/management system must be operated in accordance with Permit Application Log Nos. 1994-579 and 2001-229.

3. The following monitoring points are to be used in the Leachate Monitoring Program for this facility as identified on plan sheet C-11 of application Log No. 2001-229 and approved in Modification No. 25.

Leachate Monitoring Points

Applicant Designation	Illinois EPA Designation
L301	L301
L302	L302
L303	L303
L304	L304
L305	L305
L306	L306
L307	L307
L308	L308
L309	L309
@L310	@L310
@L311	@L311
@L312	@L312

@ indicates leachate monitoring points not yet placed into service.

4. Pursuant to 35 Ill. Adm. Code, Sections 811.309(g), 722.111 and 721, Subpart C, leachate monitoring (i.e., sampling, measurements and analysis) must be conducted in accordance with the permit for this facility. The concentrations or values for the parameters contained in List L1 (below) must be determined on a semi-annual basis and the results must be submitted with the groundwater reports.

Each year, the permittee shall collect a representative leachate sample and have it tested for the parameters contained in List L2.

Condition V.5. presents the sampling, testing and reporting schedules in tabular form. Leachate monitoring at each monitoring point shall continue as long as groundwater monitoring at this landfill is necessary pursuant to 35 Ill. Adm. Code, Section 811.319(a)(1)(C).

LIST LI

Leachate Monitoring Parameters	STORET
pH (S.U.)	00400
Elevation Leachate Surface (ft. MSL)	71993
Bottom of Well Elevation (ft. MSL)	72020
Leachate Level from Measuring Point (ft.)	72109
Arsenic (total)	01002
Barium (total)	01007
Cadmium (total)	01027
Iron (total)	01045
Ammonia Nitrogen – N (mg/L)	00610
Bacteria (Fecal Coliform) (FCBR/100 mL)	31616
Biochemical Oxygen Demand (BOD5) (mg/L)	00310
1,1,1,2-Tetrachloroethane	77562
1,1,1-Trichloroethane	34506
1,1,2,2-Tetrachloroethane	34516
1,1,2-Trichloroethane	34511
1,1-Dichloroethane	34496
1,1-Dichloroethylene	34501
1,1-Dichloropropene	77168
1,2,3-Trichlorobenzene	77613
1,2,3-Trichloropropane	77443
1,2,4-Trichlorobenzene	34551
1,2,4-Trimethylbenzene	77222

LIST LI

Leachate Monitoring Parameters	STORET
1,2-Dibromo-3-Chloropropane	38760
1,2-Dichloroethane	34531
1,2-Dichloropropane	34541
1,3,5-Trimethylbenzene	77226
1,3-Dichloropropane	77173
1,3-Dichloropropene	34561
1,4-Dichloro-2-Butene	73547
1-Propanol	77018
2,2-Dichloropropane	77170
2,4,5-tp (Silvex)	39760
2,4,6-Trichlorophenol	34621
2,4-Dichlorophenol	34601
2,4-Dichlorophenoxyacetic Acid (2,4-D)	39730
2,4-Dimethylphenol	34606
2,4-Dinitrotoluene	34611
2,4-Dinitrophenol	34616
2,6-Dinitrotoluene	34626
2-Chloroethyl Vinyl Ether	34576
2-Chloronaphthalene	34581
2-Chlorophenol	34586
2-Hexanone	77103
2-Propanol (Isopropyl Alcohol)	81310
3,3-Dichlorobenzidine	34631
4,4-DDD	39310
4,4-DDE	39320
4,6-Dinitro-O-Cresol	34657
4-Bromophenyl Phenyl Ether	34636
4-Chlorophenyl Phenyl Ether	34641
4-Methyl-2-Pentanone	78133
4-Nitrophenol	34646
Acenaphthene	34205
Acetone	81552
Alachlor	77825
Aldicarb	39053
Aldrin	39330
Alpha – BHC	39337
Aluminum	01105

LIST LI

Leachate Monitoring Parameters	STORET
Anthracene	34220
Antimony	01097
Atrazine	39033
Benzene	34030
Benzo (a) Anthracene	34526
Benzo (a) Pyrene	34247
Benzo (b) Fluoranthene	34230
Benzo (ghi) Perylene	34521
Benzo (k) Fluoranthene	34242
Beryllium (total)	01012
Beta – BHC	39338
Bicarbonate (mg/L as CaCO3)	00425
Bis (2-Chloro-1-Methylethyl) Ether	73522
Bis (2-Chloroethoxy) Methane	34278
Bis (2-Chloroethyl) Ether	34273
Bis (2-Ethylhexyl) Phthalate	39100
Bis(Chloromethyl) Ether	34268
Boron	01022
Bromobenzene	81555
Bromochloromethane	77297
Bromodichloromethane	32101
Bromoform	32104
Bromomethane	34413
Butanol	45265
Butyl Benzyl Phthalate	34292
Calcium (mg/L)	00916
Carbofuran	81405
Carbon Disulfide	77041
Carbon Tetrachloride	32102
Chemical Oxygen Demand (COD) (mg/L)	00335
Chlordane	39350
Chloride (mg/L)	00940
Chlorobenzene	34301
Chloroethane	34311
Chloroform	32106
Chloromethane	34418
Chromium (total)	01034

LIST LI

Leachate Monitoring Parameters	STORET
Chrysene	34320
Cis-1,2-Dichloroethylene	77093
Cobalt (total)	01037
Copper (total)	01042
Cyanide (mg/L)	00720
DDT	39370
Delta – BHC	46323
Di-N-Butyl Phthalate	39110
Di-N-Octyl Phthalate	34596
Dibenzo (a,h) Anthracene	34556
Dibromochloromethane	32105
Dibromomethane	77596
Dichlorodifluoromethane	34668
Dichloromethane	34423
Dieldrin	39380
Diethyl Phthalate	34336
Dimethyl Phthalate	34341
Endosulfan I	34361
Endosulfan II	34356
Endosulfan Sulfate	34351
Endrin	39390
Endrin Aldehyde	34366
Ethyl Acetate	81585
Ethylbenzene	78113
Ethylene Dibromide (EDB)	77651
Fluoranthene	34376
Flourene	34381
Fluoride (mg/L)	00951
Heptachlor Epoxide	39420
Heptachlor	39410
Hexachlorobenzene	39700
Hexachlorobutadiene	39702
Hexachlorocyclopentadiene	34386
Hexachloroethane	34396
Ideno (1,2,3-cd) Pyrene	34403
Iodomethane	77424
Isopropylbenzene	77223

LIST LI

Leachate Monitoring Parameters	STORET
Lead (total)	01051
Lindane	39782
Magnesium (total) (mg/L)	00927
Manganese (total)	01055
Mercury (total)	71900
Methoxychlor	39480
Methyl Ethyl Ketone	81595
Naphthalene	34696
Nickel (total)	01067
Nitrate-Nitrogen (mg/L)	00620
Nitrobenzene	34447
Oil. Hexane Soluble (or Equivalent) (mg/L)	00550 or 00552
Parathion	39540
Pentachlorophenol	39032
Phenanthrene	34461
Phenols	32730
Phosphorous (mg/L)	00665
Polychlorinated Biphenyls	39516
Potassium (mg/L)	00937
Pyrene	34469
Selenium	01147
Silver (total)	01077
Specific Conductance (umhos/cm)	00094
Sodium (mg/L)	00929
Styrene	77128
Sulfate (mg/L)	00945
Temperature of Leachate Sample (°F)	00011
Tert-Butylbenzene	77353
Tetrachlorodibenzo-p-Dioxins	34675
Tetrachloroethylene	34475
Tetrahydrofuran	81607
Thallium	01059
Tin	01102
Toluene	34010
Total Organic Carbon (TOC) (mg/L)	00680
Total Dissolved Solids (TDS) (mg/L)	70300

LIST LI

Leachate Monitoring Parameters	STORET
Total Suspended Solids (TSS) (mg/L)	00530
Toxaphene	39400
Trans-1,2-Dichloroethylene	34546
Trans-1,3-Dichlorpropene	34699
Trichloroethylene	39180
Trichlorofluoromethane	34488
Vinyl Acetate	77057
Vinyl Chloride	39175
Xylene	81551
Zinc (total)	01092
m-Dichlorobenzene	34566
m+p-Xylene	61283
n-Butylbenzene	77342
n-Nitrosodimethylamine	34438
n-Nitrosodiphenylamine	34433
n-Nitrosodipropylamine	34428
n-Propylbenzene	77224
o-Chlorotoluene	77275
o-Dichlorobenzene	34536
o-Nitrophenol	34591
o-Xylene	77135
p-Chlorotoluene	77277
p-Cresol	77146
p-Dichlorobenzene	34571
p-Isopropyltoluene	77356
sec-Butylbenzene	77350

LIST L2

RCRA Parameters for Leachate and Condensate

RCRA PARAMETERS	STORETS
Ignitability	
Flashpoint, Pensky-Martens Closed Cup (°F)	00497

LIST L2

RCRA Parameters for Leachate and Condensate

RCRA PARAMETERS	STORETS		
Corrosivity			
pH (S.U.)	00400		
Reactivity			
Reactive Cyanide	99040		
Reactive Sulfide	99042		
Toxicity			
		Total conc. (ug/l)	TCLP conc. (mg/L)
Arsenic		1002	99012
Barium		1007	99014
Cadmium		1027	99016
Chromium		1034	99018
Lead		1051	99020
Mercury		71900	99022
Selenium		1147	99024
Silver		1077	99026
Endrin		39390	99028
Lindane		39782	99030
Methoxychlor		39480	99032
Toxaphene		39400	99034
2,4-D		39730	99036
2,4,5-TP Silvex		39760	99038
Benzene		34030	99128
Carbon tetrachloride		32102	99050
Chlordane		39350	99148
Chlorobenzene		34301	99096
Chloroform		32106	99149
o-Cresol		77152	99150
m-Cresol		77151	99151
p-Cresol		77146	99152
Cresol		79778	99153
1,4-Dichlorobenzene		34571	99154

LIST L2

RCRA Parameters for Leachate and Condensate

RCRA PARAMETERS	STORETS	
1,2-Dichloroethane	34531	99155
1,1-Dichloroethylene	34501	99156
2,4-Dinitrotoluene	34611	99157
Heptachlor (and its epoxide)	39410 and 39420	99158
Hexachlorobenzene	39700	99159
Hexachloro-1,3-Butadiene	39702	99160
Hexachloroethane	34396	99161
Methyl Ethyl Ketone	81595	99060
Nitrobenzene	34447	99062
Pentachlorophenol	39032	99064
Pyridine	77045	99066
Tetrachloroethylene	34475	99068
Trichloroethylene	39180	99076
2,4,5-Trichlorophenol	77687	99078
2,4,6-Trichlorophenol	34621	99080
Vinyl Chloride	39175	99162

Notes for all leachate monitoring parameters:

a. Flashpoint shall be reported in degrees Fahrenheit. The parameters for reactivity and toxicity shall be reported in parts per million.

b. The permittee shall obtain metals and organics analysis. For List L2 parameters, either procedure may be utilized (i.e., total or TCLP), but any constituent whose total concentration exceeds the TCLP limit specified in 35 Ill. Adm. Code, Section 721.124 must be analyzed using the TCLP test and the results reported, unless an alternative test has been approved by the Illinois EPA. TCLP test methods must be in accordance with SW 846-1311.

c. The test methods for leachate monitoring shall be those approved in the USEPA's Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846), Third Edition or the equivalent thereof.

d. All parameters shall be determined from unfiltered samples.

e. The monitoring results should be reported in ug/l units unless otherwise indicated.

5. The schedule for leachate sample collection and submission of monitoring results for leachate monitoring points currently in-place and representative sample for L2 testing is as follows:

Sampling Period	Sampling List	Sampling Points	Report Due Date
Oct-Nov 2017	List L1	L304 and L309	January 15, 2018
April-May 2018	List L1	L301, L307 and L308	July 15, 2018
	List L2	LREP	July 15, 2018
Oct-Nov 2018	List L1	L302 and L306	January 15, 2019
April-May 2019	List L1	L303 and L305	July 15, 2019
	List L2	LREP	July 15, 2019
Oct-Nov 2019	List L1	L304 and L309	January 15, 2020
April-May 2020	List L1	L301, L307 and L308	July 15, 2020
	List L2	LREP	July 15, 2020
Oct-Nov 2020	List L1	L302 and L306	January 15, 2021
April- May 2021	List L1	L303 and L305	July 15, 2021
	List L2	LREP	July 15, 2021
Oct-Nov 2021	List L1	L304 and L309	January 15, 2022

L1 – Leachate Monitoring Parameters
L2- Annual RCRA Leachate Parameters
LREP – Representative Leachate Sample

6. The leachate monitoring data must be submitted in an electronic format. The information is to be submitted as fixed-width text files formatted as found at www.epa.state.il.us/land/waste-mgmt/groundwater-monitoring.html.

7. The leachate storage system and associated piping shall be protected from freezing.

8. The leachate management procedures proposed in the addendum dated January 9, 2004 of application Log No. 2003-391 are hereby approved. The approval is subject to the following conditions:

a. A mobile leachate storage tank with a minimum capacity of 2,500 gallons shall always be available at the facility;

b. Leachate levels shall be monitored at least two times per week. If it rains during the operating day the leachate level shall be checked at the end of

the day. If the rain event occurs when the facility is closed, leachate levels shall be checked the next working day. If during any of these monitoring events leachate level is found to be above the invert of the collection pipe(s), then leachate shall be pumped into the mobile tank. The pumping shall continue at least until leachate levels have receded to below the invert of the collection pipe(s);

c. During large rainfall events leachate level shall be pumped to below the invert of the collection pipe(s) as soon as possible;

d. A submersible or suction pump shall always be available at the facility to transfer leachate from the mobile tank into the two 21,000 gallon leachate storage tanks; and

e. These procedures shall remain in effect until the leachate drainage and collection system is connected to the leachate storage tanks by an underground forcemain.
(Modification No. 30)

9. The following conditions shall apply when leachate is re-circulated through distribution trenches or by direct application to the working face of the landfill:

a. Leachate distribution trenches shall be constructed by excavating an opening approximately 4 feet deep and 2 to 6 feet wide on a level portion or top deck of the active fill area. The trenches shall be spaced at least 50-feet apart and no more than 3 trenches shall receive leachate at one time;

b. The leachate distribution trenches shall be covered at the end of each operating day with either daily cover or approved alternate daily cover. Trenches shall be backfilled after the active filling area has progressed to other portions of the landfill;

c. The operator shall maintain an operating record that documents leachate re-circulation activities. The operating record shall include:

i. The amount of leachate re-circulated on a daily basis;

ii. The amount of waste disposed on a daily basis (gate cubic yards and tons).

iii. The location and approximate dimensions of the leachate trenches or the location of the active face where leachate was applied;

iv. How the leachate re-circulation area was closed at the end of the operating day; and

v. Documentation of leachate pop outs, odors and other associated problems that could be attributed to leachate re-circulation.

d. Leachate shall not be re-circulated during precipitation events or in volumes large enough to cause runoff or surface seeps;

e. The amount of leachate added shall not exceed the ability of the waste and cover soils to transmit leachate flow downward;

f. Leachate shall be evenly distributed beneath the surface of the re-circulation area;

g. Daily and intermediate cover shall slope away from the perimeter of the site to minimize surface discharges of leachate;

h. Leachate re-circulation shall be restricted to areas where the hydraulic conductivity of the leachate drainage layer is equal to or greater than 1 x 10^{-1} cm/sec;

i. Leachate which exhibits a hazardous characteristic in accordance with 35 Ill. Adm. Code 721, Subpart C shall not be re-circulated; and

j. The maximum volume of leachate that can be re-circulated shall be calculated on a daily basis. The volume of leachate re-circulated shall not exceed 25 gallons per ton of waste disposed at the landfill on that particular day.

10. Re-circulation of leachate shall be limited to the active life of the landfill. Leachate shall not be re-circulated after the landfill stops accepting waste and during the post-closure care period.

11. The re-circulation of leachate through a series of forcemains and perforated pipes as described in application Log No. 2006-398 is hereby approved. Operation of the above referenced leachate re-circulation system shall not be initiated until an acceptance report has been submitted to and approved by the Illinois EPA as a significant modification pursuant to 35 Ill. Adm. Code, Sections 811.505(d) and 813.203. (Modification No. 45)

12. Modification No. 3 (Log No. 1996-205) approved the leachate storage system consisting of two 21,000 gallon storage tanks near the southwest corner of the landfill.

13. Modification No. 51 (Log No. 2008-162) approved the installation of an additional 20,000 gallon leachate storage tank in the northwest corner of Phases 1-4 of the landfill.

14. Modification No. 107 (Log No. 2019-480) approved the proposal to install a leachate evaporator system. The operator shall submit the engineering plans and designs of the proposed system to the Agency in the form of a permit application and receive approval before installation construction commences pursuant to 35 IAC 812.308(a)(2) and (3).

VI. GROUNDWATER MONITORING

1. The groundwater monitoring program must be capable of determining background groundwater quality hydraulically upgradient of and unaffected by the units and to detect, from all potential sources of discharge, any releases to groundwater within the facility. The Illinois EPA reserves the right to require installation of additional monitoring wells as may be necessary to satisfy the requirements of this permit.

2. The groundwater monitoring wells shall be constructed and maintained in accordance with the requirements of 35 Ill. Adm. Code, 811.318(d) and designs approved by the Illinois EPA.

3. Groundwater monitoring wells shall be maintained in the locations shown in Drawing No. C-29, of the permit application, Log No. 1994-579 and screened in the hydrogeologic unit(s) identified as potential contaminant pathway(s) within the zone of attenuation. Installation of the proposed new monitoring wells listed in Condition VI.9 will be phased coincident with landfill development as described in the revised schedule contained in Attachment 2 of the December 9, 2002 Addendum to Application Log No. 2002-333. The estimated schedule dates (non-binding) are intended to provide for new downgradient well installation. Installation shall occur a minimum of one year before waste placement within respective phases for the purpose of background development.

   The location of groundwater monitoring well G1K4 has been revised, with the newly designated location shown in Figure 1 of Permit Application Log No. 2015-088. The screened hydrogeologic unit remains unchanged.

4. Within 60 days of installation of any groundwater monitoring well, boring logs compiled by a qualified geologist, well development data and as-built diagrams shall be submitted to the Illinois EPA utilizing the enclosed "Well Completion Report" form. For each well installed pursuant to this permit, one form must be completed.

5. Groundwater monitoring wells shall be easily visible, labeled with the Illinois EPA monitoring point designations and fitted with padlocked protective covers.

6. In the event that any well becomes consistently dry or unserviceable and therefore requires replacement, a replacement well shall be installed within ten (10) feet of the existing well. The Illinois EPA shall be notified in writing at least 15 days prior to the installation of all replacement wells. A replacement well that is more

than ten feet from the existing well or which does not monitor the same geologic zone is considered to be a new well and must be approved via a significant modification permit.

7. All borings, wells and piezometers not used as monitoring points shall be abandoned in accordance with the standards in 35 Ill. Adm. Code 811.316, and the decommissioning and reporting procedures contained in the Illinois Department of Public Health's (IDPH) Water Well Construction Code, 77 Ill. Adm. Code, Part 920 (effective 1/1/92). In the event specific guidance is not provided by IDPH procedures, the Illinois EPA monitoring well plugging procedures shall be followed.

8. Groundwater sampling and analysis shall be performed in accordance with the requirements of 35 Ill. Adm. Code 811.318(e) and the specific procedures and methods approved by the Illinois EPA. Low-flow and micro-purging sampling methods shall be used as described in application Log No. 2005-099.

9. The following monitoring points are to be used in the groundwater detection monitoring program for this facility:

Upgradient Wells

Applicant Designation	Illinois EPA Designation
G122	G1C2
G123	G1C3
G142	G1E2
R201	R1K1
G202	G1K2
G203	G1K3
G204	G1K4
G221	G1M1
G222	G1M2
G223	G1M3
G237	G1N7

Compliance Boundary Well(s)

Applicant Designation	Illinois EPA Designation
G208	G1K8
G214	G1L4
G219	G1L9
G226	G1M6
G228	G1M8
G232	G1N2

Wells Within Zone of Attenuation

Applicant Designation	Illinois EPA Designation
G205*	G1K5*
R205#	R1K5#
G206*	G1K6*
R206#	R1K6#
G207	G1K7
G209	G1K9
G210	G1L0
G211	G1L1
G212	G1L2
G213	G1L3
G215	G1L5
G216	G1L6
G217	G1L7
G218	G1L8
G220	G1M0
G224	G1M4
G225	G1M5
G227	G1M7
G229	G1M9
G230	G1N0
G231	G1N1
G233	G1N3
G234	G1N4
G235	G1N5
G236	G1N6

Note:
(*) – Represents Deleted Monitoring Point
(#) – Represents Added Monitoring Point

10. The monitoring program, approved by Permit No.1999-291-LF, shall continue for a minimum period of 30 years after closure and shall not cease until the conditions described in 35 Ill. Adm. Code, 811.319(a)(1)(C) have been achieved. The operator shall collect samples from all of the monitoring points listed in Condition VI.9, test the samples for the parameters listed in Condition VI.12 (Lists G1 and G2), and report the results to the Illinois EPA, all in accordance with the schedule in Condition VI.18.

11. The applicable groundwater quality standards (AGQS) and the maximum allowable predicted concentrations (MAPC), as listed in Attachment 1, are subject to the following conditions:

a. Temperature and the field parameters involving depth or elevation are not considered groundwater constituents and do not need AGQS.

b. For constituents which have not been detected in the groundwater, either the practical quantitation limit (PQL) or the method detection limit (MDL) shall be used as the AGQS.

c. MAPCs are only applicable to those wells within the zone of attenuation. MAPC values are not applicable to parameters within the zone of attenuation wells having an established intrawell value.

d. AGQS are only applicable to upgradient/background and compliance boundary wells.

12. AGQS and MAPC values must be determined for all of the parameters which appear in either Lists G1 or G2 (not including groundwater depth or elevations). The AGQS values shall be calculated using a minimum of four (4) consecutive quarters of groundwater monitoring data and shall be calculated at the 99% Upper Confidence Limit or as proposed in Section 11.2.2.1 of Application Log No. 1994-579.

LIST G (Groundwater)

GROUNDWATER MONITORING PARAMETER	STORETS
Elevation of Bottom of Well (ft. MSL) (Annually without dedicated pumps; every 5 years with dedicated pumps or whenever the pump is pulled)	72020

LIST G1 (Groundwater - Quarterly)

FIELD PARAMETERS	STORETS
pH (S.U.)	00400
Specific Conductance (umhos/cm)	00094
Temperature of Water Sample (° F)	00011
Depth to Water (ft. below land surface)	72019
Depth to Water (ft. below measuring point)	72109
Elevation of Measuring Point (Top of casing ft. MSL)	72110
Elevation of Groundwater Surface (ft. MSL)	71993
Ammonia (as Nitrogen; Dissolved) mg/L	00608
Arsenic (Dissolved) ug/L	01000
Boron (Dissolved) ug/L	01020
Cadmium (Dissolved) ug/L	01025
Chloride (Dissolved) mg/L	00941
Chromium (Dissolved) ug/L	01030

Cyanide (Total) mg/L	00720
Lead (Dissolved) ug/L	01049
Magnesium (Dissolved) mg/L	00925
Mercury (Dissolved) ug/L	71890
Nitrate (as Nitrogen, Dissolved) mg/L	00618
Sulfate (Dissolved) mg/L	00946
Total Dissolved Solids (TDS, 180°C; Dissolved) mg/L	70300
Zinc (Dissolved) ug/L	01090

NOTE:

i. All parameters with the "(Dissolved)" label to the right shall be determined using groundwater samples which have been filtered through a 0.45 micron filter. All other parameters shall be determined from unfiltered samples.

ii. Maximum allowable predicted concentrations (MAPCs) and applicable groundwater quality standards (AGQS) are given in ug/L except as otherwise noted. Also, the monitoring results should be reported in ug/L units unless otherwise indicated.

iii. List G1 and List G2 AGQS/MAPC values are included in Attachment 1.

LIST G2 (Groundwater - Semiannual)

PARAMETERS (ug/L)	STORETS
Acetone	81552
Acrylonitrile	34215
Benzene	34030
Bromobenzene	81555
Bromochloromethane (chlorobromomethane)	77297
Bromodichloromethane	32101
Bromoform (Tribromomethane)	32104
n-Butylbenzene	77342
sec-Butylbenzene	77350
tert-Butylbenzene	77353
Carbon Disulfide	77041
Carbon Tetrachloride	32102
Chlorobenzene	34301
Chloroethane (Ethyl Chloride)	34311
Chloroform (Trichloromethane)	32106
o-Chlorotoluene	77275
p-Chlorotoluene	77277
Dibromochloromethane	32105
1,2-Dibromo-3-Chloropropane	38760
1,2-Dibromoethane	77651
1,2-Dichlorobenzene	34536

LIST G2 (Groundwater - Semiannual) (cont.)

PARAMETERS (ug/L)	STORETS
1,3-Dichlorobenzene	34566
1,4-Dichlorobenzene	34571
trans-1,4-Dichloro-2-Butene	49263
Dichlorodifluoromethane	34668
1,1-Dichloroethane	34496
1,2-Dichloroethane	34531
1,1-Dichloroethylene	34501
cis-1,2-Dichloroethylene	77093
trans-1,2-Dichloroethylene	34546
1,2-Dichloropropane	34541
1,3-Dichloropropane	77173
2,2-Dichloropropane	77170
1,1-Dichloropropene	77168
1,3-Dichloropropene	34561
cis-1,3-Dichloropropene	34704
trans-1,3-Dichloropropene	34699
Ethylbenzene	78113
Hexachlorobutadiene	39702
2-Hexanone (Methyl Butyl Ketone)	77103
Isopropylbenzene	77223
p-Isopropyltoluene	77356
Methyl Bromide (Bromomethane)	34413
Methyl Chloride (Chloromethane)	34418
Methylene Bromide (Dibromomethane)	77596
Dichloromethane	34423
Methyl Ethyl Ketone	81595
Methyl Iodide (Iodomethane)	77424
4-Methyl-2-Pentanone	78133
Naphthalene	34696
Oil (Hexane-Soluble) (mg/L)	00552
n-Propylbenzene	77224
Styrene	77128
1,1,1,2-Tetrachloroethane	77562
1,1,2,2-Tetrachloroethane	34516
Tetrachloroethylene	34475
Tetrahydrofuran	81607
Toluene	34010
Total Phenolics	32730
1,2,3-Trichlorobenzene	77613
1,2,4-Trichlorobenzene	34551
1,1,1-Trichloroethane	34506
1,1,2-Trichloroethane	34511

LIST G2 (Groundwater - Semiannual) (cont.)

PARAMETERS (ug/L)	STORETS
Trichloroethylene	39180
Trichlorofluoromethane	34488
1,2,3-Trichloropropane	77443
1,2,4-Trimethylbenzene	77222
1,3,5-Trimethylbenzene	77226
Vinyl Acetate	77057
Vinyl Chloride	39175
Xylenes	81551

NOTE:

i. All parameters with the "(Dissolved)" label to the right shall be determined using groundwater samples which have been filtered through a 0.45 micron filter. All other parameters shall be determined from unfiltered samples.

ii. Maximum allowable predicted concentrations (MAPCs) and applicable groundwater quality standards (AGQS) are given in ug/L except as otherwise noted. Also, the monitoring results should be reported in ug/L units unless otherwise indicated.

iii. List G1 and List G2 AGQS/MAPC values are included in Attachment 1.

13. Pursuant to 35 Ill. Adm. Code, 811.319(a)(4)(A), any of the following events shall constitute an observed increase only if the concentrations of the constituents monitored can be measured at or above the practical quantitation limit (PQL):

    a. The concentration of any constituent in List G1 of Condition VI.12 or Attachment 2 shows a progressive increase over eight (8) consecutive quarters.

    b. The concentration of any constituent monitored in accordance with List G1 or List G2 of Condition VI.12 exceeds the MAPC at an established monitoring point within the zone of attenuation. MAPC values are not applicable to parameters within the zone of attenuation wells having an established intrawell value.

    c. The concentration of any organic constituent in List G2, monitored in accordance with Condition VI.12 and Attachment 2 exceeds the preceding measured concentration at any established point.

    d. The concentration of any constituent monitored at or beyond the edge of the zone of attenuation (compliance boundary) exceeds its AGQS, or

pursuant to 811.320(d) any constituent monitored at an upgradient well, exceeds its AGQS. However, the comparison to AGQS concentrations will not be required for wells G1E2, G1C3, G1C2, G1M1, G1M2 and G1M3 in routine monitoring.

e. The concentration of any constituent monitored in accordance with List G1 or List G2 of Attachment 2 exceeds the intrawell AGQS value at an established monitoring point. Intrawell values replace MAPC values.

The comparison of groundwater concentrations to values b, d, and e above to determine an observed increase will be based on exceedences of both interwell and intrawell AGQS values, if there is an intrawell value established for the parameter, listed in Attachment 2.

14. For each round of sampling described in Condition 10 of this Section, the operator must determine if an observed increase has occurred within 90 days of the initial sampling date. If an observed increase is identified, the operator must also notify the Illinois EPA in writing and follow the confirmation procedures of 35 Ill. Adm. Code, 811.319(a)(4)(B). Furthermore, the operator must complete the confirmation procedures within 180 days of the initial sampling event.

15. Upon confirmation of a monitored increase and within 180 days of the initial sampling date, the operator shall submit a permit application for a significant modification to demonstrate an alternate source per 35 Ill. Adm. Code 811.319(a)(4)(B)(ii) or begin an assessment monitoring program in order to determine whether the solid waste disposal facility is the source of the contamination and to provide information needed to carry out a groundwater impact assessment in accordance with 35 Ill. Adm. Code 811.319(b).

16. In the event that an alternative source demonstration is denied, pursuant to 35 Ill. Adm. Code 813.105, the operator must commence sampling for the constituents listed in 35 Ill. Adm. Code 811.319(b)(5), and submit an assessment monitoring plan as a significant permit modification, both within 30 days after the dated notification of Agency denial. The operator must sample the well or wells that exhibited the confirmed increase.

17. The first quarterly statistical evaluations shall be performed on groundwater samples taken during the months of January – February and the results submitted to the Illinois EPA by April 15, 2004.

18. The schedule for sample collection and submission of quarterly monitoring results is as follows:

Sampling Quarter	Sampling Due	Report Due Date
Jan-Feb (1st)	List G1	April 15
April-May (2nd)	List G, G1, and G2	July 15
July-Aug (3rd)	List G1	October 15
Oct-Nov (4th)	List G1 and G2	January 15

G – Well Depth
G1 – Routine Groundwater Parameters
G2 – Semiannual Groundwater Parameters

19. Elevation of stick-up is to be surveyed and reported to the Illinois EPA:

    a. When the well is installed (with the as-built diagrams),

    b. Every two years thereafter, or

    c. Whenever there is reason to believe that the elevation has changed.

20. Annually, the operator shall prepare an evaluation of the groundwater flow direction and the hydraulic gradients at the facility using the groundwater surface elevations (STORET #71993) determined for each monitoring event. This assessment shall be submitted with the monitoring results due on July 15.

21. All monitoring points shall be maintained in accordance with the approved permit application such that the required samples and measurements may be obtained.

22. Information required by Conditions VI.10 and VI.18 must be submitted in an electronic format. The facility shall submit a completed "Solid Waste Landfill Groundwater, Leachate and Gas Reporting Form" (LPC-591) as a cover sheet along with the information submitted as fixed-width text files format. Additional guidance regarding the submittal of the information in an electronic format can be found at http://www.epa.illinois.gov/topics/waste-management/groundwater-monitoring/index

23. Should a demonstration of a confirmed groundwater exceedance due to the facility be made, the proposed design plan change (groundwater extraction system) as proposed in Permit Application Log No. 2001-229 and all addendum, shall be implemented within 30 days after the assessment monitoring and report, approved by the Illinois EPA, determines that groundwater exceedences are due to the facility.

24. Should the proposed design plan change as required in Permit Conditions VI.23 be implemented, the operator shall prepare an annual assessment of the effectiveness of the system. This assessment shall be submitted on or before July 15.

25. Background concentrations which exhibit a statistically significant change shall be adjusted and updated in accordance with 35 Ill. Adm. Code 811.320(d)(2) and submitted to the Illinois EPA as a permit modification.

VII. LANDFILL GAS MANAGEMENT/MONITORING

1. The landfill gas monitoring plan described in Application Log No. 1994-579 is approved. Monitoring devices shall be put into service in accordance with the following schedule:

   a. The gas monitoring probes within the waste boundary shall be installed and put into service within ninety days after final cover has been applied to the various areas where they are located.

   b. Monitoring devices outside the waste boundary shall be put into service when waste has been disposed in the landfill near that monitoring location. Every application for operating authorization of an additional phase shall include documentation for installation of associated gas probes listed in the table titled "Gas probe installation schedule" submitted in the addendum dated July 18, 2011 of application Log No. 2011-080.

   c. Monitoring devices within buildings shall be put into service when waste disposal begins and the building has been constructed.

   d. Ambient air monitoring devices shall be put into service downwind of the disposal unit after initial receipt of waste.

   e. Documentation that all the gas monitoring probes outside the waste boundary and the methane monitoring devices within the on-site buildings have been installed shall be included with the application for a significant modification requesting authorization to place waste upon new liner.

2. The gas monitoring probes both inside and outside the waste boundary shall be monitored for the following parameters:

   a. Methane;
   b. Pressure;
   c. Nitrogen*;
   d. Oxygen; and
   e. Carbon Dioxide

   *NOTE: For routine monitoring, Nitrogen may be reported as the net remaining volume fraction after the other measured constituents have been accounted for.

3. The ambient air monitoring devices described in the Application, Log No. 1994-579, shall be used to test the air downwind of the landfill for methane.

4. All buildings within the facility boundaries shall be monitored continuously for methane.

5. Gas monitoring shall begin immediately after the first significant modification authorizing operation of the new unit is issued, shall continue for at least thirty (30) years after closure and may be discontinued only after the conditions described in 35 Ill. Adm. Code, 811.310(c)(4) have been achieved.

6. Sampling and testing of the gas monitoring probes and ambient air monitoring shall be performed at least annually (except for gas probes GP-2 and GP-3) throughout the new unit's operating life. Gas probes GP-2 and GP-3 shall be monitored quarterly.

7. Pursuant to 35 Ill. Adm. Code 811.311, in the event of any of the occurrences listed below, the operator must take the steps described in the last two paragraphs of this condition to ensure the protection of human health:

   a. A methane concentration greater than 50 percent of the lower explosive limit in air is detected in any of the below ground monitoring devices outside the waste boundary;

   b. A methane concentration greater than 50 percent of the lower explosive limit in air is detected during ambient air monitoring;

   c. A methane concentration greater than 25 percent of the lower explosive limit in air is detected in any building on or near the facility; or

   d. Malodors attributed to the unit are detected beyond the property boundary.

   First, within two business days of the occurrence, the operator must notify the Illinois EPA in writing using the form LPC-591, pursuant to 35 Ill. Adm. Code 811.311(b)(1). The notification must identify the location of the occurrence and describe its nature (quantitatively if possible). If the gas exceedance is corrected within 30 days, a follow up LPC-591 form may be submitted to the Illinois EPA describing the correction and providing confirmation test results.

   Second, if a follow up LPC-591 is not submitted, then within 180 days of the occurrence, the operator must submit to the Illinois EPA an application for a significant modification that either: 1) proposes a gas collection/management system or modifications to the existing gas collection/management system, or 2) demonstrates that the facility is not the cause of the occurrence.

8. The gas probes shall be inspected at least monthly for structural integrity and proper operation.

9. The results from gas monitoring for each year shall be submitted to the Illinois EPA in the annual report required by 35 Ill. Adm. Code, 813.501.

10. At the end of the post-closure care period, the gas monitoring probes shall be decommissioned. The probes outside the waste boundary shall be decommissioned using the method described in the enclosed Illinois EPA monitoring well plugging procedure guidance. In decommissioning the probes within the waste boundaries, the pipes shall be cut off at least two (2) feet below the low permeability layer and plugged. Then the low permeability layer, the protective layer and the vegetation shall be restored in the excavated areas.

11. Modification Nos. 23, 27, 40, 50, 53, 55, 58, 65, 72, 83, 96 and 101, approved construction documentation for a portion of the landfill gas management system consisting of the following:

- Sixty one (61) gas extraction wells and associated collector piping;
- 36 temporary Rock Columns and associated horizontal collector piping;
- Condensate knockout and pumping station;
- Blower/flare outside the northeast corner of Phase 4; and
- Blower/Flare south of Phase 5.

The permittee shall operate the gas collection system in accordance with the requirements of Condition Nos. VII.12 and VII.13.

12. Upon completion of construction of each subsequent phase of the gas management system the operator:

a. May temporarily operate the subject phase of the landfill gas management system for a period not exceeding 120-days as a part of a "shakedown period"; and

b. Shall submit an acceptance report to the Illinois EPA pursuant to the requirements of 35 Ill. Adm. Code, Sections 811.505(d) and 813.203. The acceptance report shall be submitted in the form of a permit application for significant modification and shall demonstrate that the construction of the subject phase of the landfill gas management system has been completed in accordance with the approved designs. The permit application shall be submitted within 30-days of the commencement of the temporary operation referenced in item (a) above.

13. The temporary operation of the gas management system referenced in Condition No. VII.12 of this permit does not relieve the permittee to file reports and/or obtain applicable permit(s) from the Illinois EPA's Bureau of Air. Furthermore, the operation of the gas management system shall not violate any conditions included in the permit(s) issued by the Illinois EPA's Bureau of Air.

VIII. CLOSURE/POST CLOSURE CARE

1. Per 35 IAC Part 813.401(a), the landfill operator shall send a notice of closure to the Illinois EPA within 30 days after the date of the final volume of waste is received. The facility shall be closed in accordance with the closure plan in Application Log No. 1994-579. Upon completion of closure activities, the operator shall notify the Illinois EPA that the site has been closed in accordance with the approved closure plan utilizing the Illinois EPA's "Affidavit for Certification of Closure of Solid Waste Landfills permitted under 35 IAC Parts 813 and 814".

2. Inspections of the closed landfill shall be conducted in accordance with the approved post-closure care plan. Records of field investigations, inspections, sampling and corrective action taken are to be maintained at the site and made available to Illinois EPA personnel or their designee through an intergovernmental agreement. During the post-closure care period, these records are to be maintained at the office of the site operator.

3. If necessary, the soil over the entire planting area shall be amended with lime, fertilizer and/or organic matter. On sideslopes, mulch or some other form of stabilizing material is to be provided to hold seed in place and conserve moisture.

4. The minimum post-closure care period for this municipal solid waste (MSWLF) landfill is thirty (30) years. When the post-closure care period has been completed, the operator shall notify the Illinois EPA utilizing the Illinois EPA's LPC-PA1 application form entitled "General Application for Permit."

5. The operator shall provide financial assurance for closure and post-closure care pursuant to 35 Ill. Adm. Code, 811.700(b). The receipt of waste in the new unit shall not be approved until adequate documentation of financial assurance in accordance with 35 Ill. Adm. Code, 811.700(b) has been provided.

   However, financial assurance for closure and post-closure care shall be required only for those areas for which authorization to operate has been obtained or is being requested.

6. The operator shall increase the total amount of financial assurance so as to equal the current cost estimate within 90 days of an increase in the current cost estimate in accordance with 35 Ill. Adm. Code, 811.701(b).

7. The total cost estimate for closure and post-closure care for this facility approved by Modification No. 104 to Permit No. 1994-579-LF is $12,433,450.00. The total cost estimates consist of $5,972,424.00 in closure costs; $6,407,318.00 in post-closure care costs; and $53,708.00 in decommissioning costs. The permittee shall maintain financial assurance in this amount pursuant to 35 Ill. Adm. Code 811.701(a).

8. The owner or operator shall adjust the cost estimates for closure, post-closure, and corrective action for inflation on an annual basis during the following time periods:

   a. The active life of the unit for the closure cost;

   b. The active life and post-closure care period for the post-closure cost; or

   c. Until any corrective action program is completed in accordance with 35 Ill. Adm. Code, Section 811.326, for the cost of corrective action.

   Each year, no later than May 1st of that year, the owner or operator shall submit a permit application for significant modification. This application shall provide an update to the cost estimate or a certification that there are no changes to the current cost estimates.

   The Illinois EPA is in receipt of a permit application that purports to address the requirements of this condition. Application Log No. 2020-152 is currently under review and the current decision date is July 27, 2020.

IX. REPORTING REQUIREMENTS

1. The annual certification shall be submitted to the Illinois EPA during operation and for the entire post-closure monitoring period, pursuant to 35 Ill. Adm. Code 813.501. The certification shall be signed by the operator or duly authorized agent, shall be filed each year by May 1 the following year and shall state:

   a. All records required to be submitted to the Illinois EPA pursuant to 35 Ill. Adm. Code 858.207 and 858.308 have been timely and accurately submitted; and,

   b. All applicable fees required by the Act have been paid in full.

2. The annual report for each calendar year shall be submitted to the Illinois EPA by May 1 of the following year pursuant to 35 Ill. Adm. Code 813.504. The annual report shall include:

a. Information relating to monitoring data from the leachate collection system, groundwater monitoring network, gas monitoring system and any other monitoring data specified in this permit, including:

1) Summary of monitoring data for the calendar year;

2) Dates of submittal of comprehensive monitoring data to the Illinois EPA during the calendar year;

3) Statistical summaries and analysis of trends;

4) Changes to the monitoring program; and

5) Discussion of error analysis, detection limits and observed trends.

b. Proposed activities:

1) Amount of waste expected in the next year;

2) Structures to be built within the next year; and

3) New monitoring stations to be installed within the next year.

c. Any modification or significant modification affecting operation of the facility; and

d. The signature of the operator or duly authorized agent as specified in 35 Ill. Adm. Code 815.102.

3. The permittee shall submit a completed "Solid Waste Landfill Groundwater, Leachate, Facility and Gas Reporting Form" (LPC 591) as a cover sheet for any notices or reports required by the facility's permit for identification purposes. One copy of the LPC 591 form must accompany each report; however, except for electronically formatted data, the permittee must submit one (1) original and a minimum of two (2) copies of each report you submit to the Illinois EPA. The form is not to be used for applications for supplemental permit or significant modification.

4. All certifications, logs, reports, plan sheets, notices, and groundwater and leachate monitoring data, required to be submitted to the Illinois EPA by the permittee, shall be mailed to the following address:

Illinois Environmental Protection Agency
Permit Section
Bureau of Land -- #33
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Except for electronic groundwater and leachate monitoring data, the operator shall provide the Illinois EPA with the original and two (2) copies of all certifications, logs, reports and plan sheets required by this permit.

The applicant may appeal this final decision to the Illinois Pollution Control Board pursuant to Section 40 of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the applicant and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the request for an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276
217/782-5544

For information regarding the filing of an appeal, please contact:

Illinois Pollution Control Board, Clerk
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
312/814-3620

Work required by this permit, your application or the regulations may also be subject to other laws governing professional services, such as the Illinois Professional Land Surveyor Act of 1989, the Professional Engineering Practice Act of 1989, the Professional Geologist Licensing Act, and the Structural Engineering Licensing Act of 1989. This permit does not relieve anyone from compliance with these laws and the regulations adopted pursuant to these laws. All work that falls within the scope and definitions of these laws must be performed in compliance with them. The Illinois EPA may refer any discovered violation of these laws to the appropriate regulating authority.

Sincerely,

Kenneth E. Smith, P.E., Manager
Permit Section
Division of Land Pollution Control
Bureau of Land

KES:RD\ 1950350014-811LF-SM107-2019480-Approval.docx
RD HEM

Attachments: Standard Conditions
Attachment 1 – Facility AGQS Values
Attachment 2 – Intrawell AGQS Values

cc: Bernadette G. Sarmiento, P.E. – Waste Management of Illinois, Inc.

BCC: Bureau File
Rockford Region
Reylin Dimayuga
Anthony Guido
Bur Filson
Victoria Slayton

STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY BUREAU OF LAND

August 22, 2001

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

These standard conditions shall apply to all permits which the Agency issues for construction or development projects which require permits under the Bureau of Land. Special conditions may also be imposed in addition to these standard conditions.

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire two years after date of issuance unless construction or development on this project has started on or prior to that date.

2. The construction or development of facilities covered by this permit shall be done in compliance with applicable provisions of Federal laws and regulations, the Illinois Environmental Protection Act, and Rules and Regulations adopted by the Illinois Pollution Control Board.

3. There shall be no deviations from the approved plans and specifications unless a written request for modification of the project, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.

4. The permittee shall allow any agent duly authorized by the Agency upon the presentation of credentials:

    a. to enter at reasonable times the permittee's premises where actual or potential effluent, emissions or noise sources are located or where any activity is to be conducted pursuant to this permit.

    b. to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit.

    c. to inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit.

    d. to obtain and remove at reasonable times samples of any discharge or emission of pollutants.

e. to enter at reasonable times and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.

5. The issuance of this permit:

   a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located;

   b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities;

   c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations;

   d. does not take into consideration or attest to the structural stability of any units or parts of the project;

   e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.

6. Unless a joint construction/operation permit has been issued, a permit for operating shall be obtained from the Agency before the facility or equipment covered by this permit is placed into operation.

7. These standard conditions shall prevail unless modified by special conditions.

8. The Agency may file a complaint with the Board for modification, suspension or revocation of a permit:

   a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed; or

   b. upon finding that any standard or special conditions have been violated; or

   c. upon any violation of the Environmental Protection Act or any Rule or Regulation effective thereunder as a result of the construction or development authorized by this permit.

1950350014 – Prairie Hill RDF
Permit No. 1994-579-LF
Log No. 2019-480

Attachment 1 – Facility AGQS values

Quarterly Facility AGQS Values

FIELD PARAMETERS	STORETS	MAPC	AGQS
pH (S.U.)	00400		
Specific Conductance (umhos/cm)	00094		
Temperature of Water Sample (°F)	00011	----	----
Depth to Water (ft. below land surface)	72019	----	----
Depth to Water (ft. below measuring point)	72109	----	----
Elevation of Measuring Point (Top of casing ft. MSL)	72110	----	----
Elevation of Groundwater Surface (ft. MSL)	71993	----	----
Elevation of Bottom of Well (ft. MSL)	72020	----	----
INDICATOR PARAMETERS	**STORETS**	**MAPC**	**AGQS**
Ammonia (as Nitrogen) (Dissolved mg/L)	00608	1.886	1.886
Arsenic (Dissolved ug/L)	01000	23	23
Boron (Dissolved) ug/L	01020	107.6	107.6
Cadmium (Dissolved) ug/L	01025	40	40
Chloride (Dissolved, mg/L)	00941	261.7	261.7
Chromium (Dissolved, ug/L)	01030	4	4
Cyanide (mg/L) (Total)	00720	0.033	0.033
Lead (Dissolved) ug/L	01049	5.8	5.8
Iron (Dissolved) ug/L (See Note iv.)	01046	5200	5200
Magnesium (Dissolved, mg/L)	00925	110.3	110.3
Manganese (Dissolved) ug/L	01056	562	562
Mercury (Dissolved, ug/L)	71900	0.2	0.2
Nitrate (as N) (Dissolved) mg/L	00618	25.7	25.7
Phenol (Total) ug/L	32730	89	89
Sulfate (Dissolved, mg/L)	00946	85.16	85.16
Total Dissolved Solids mg/L	70300	800.539	800.539
Zinc (Dissolved) ug/L	01090	20	20
VOLATILE ORGANIC PARAMETERS	**STORETS**	**MAPC**	**AGQS**
Acetone	81552	100	100
Benzene	34030	5	5
Chlorobenzene	34301	5	5
Chloroethane	34311	5	5

Attachment 1

Quarterly Facility AGQS Values (Cont.)

VOLATILE ORGANIC PARAMETERS	STORETS	MAPC	AGQS
Chloroform	32106	5	5
Chloromethane	34418	5	5
p-Dichlorobenzene	34571	5	5
Dichlorodifluoromethane	34668	5	5
1,1-Dichloroethane	34496	5	5
1,2-Dichloroethane	34531	5	5
1,1-Dichloroethene	34501	5	5
cis-1,2-Dichloroethene	77093	5	5
trans-1,2-Dichloroethene	34546	5	5
1,2-Dichloropropane	34541	5	5
Methylene Chloride	34423	5	5
Tetrachloroethene	34475	5	5
Toluene	34010	5	5
1,1,1-Trichloroethane	34506	5	5
Trichloroethene	39180	5	5
Vinyl Chloride	39175	5	5
Xylenes	81551	5	5

Annual Facility AGQS Values

PARAMETERS (ug/L)	STORETS	MAPC	AGQS
UNFILTERED (totals)			
Acenaphthene	34205	5	5
Anthracene	34220	5	5
Acetone	81552	100	100
Acrolein	34210	100	100
Acrylonitrile	34215	200	200
Alachlor	77825	0.1	0.1
Aldicarb	39053	0.5	0.5
Aldrin	39330	0.05	0.05
alpha-BHC	39337	0.05	0.05
Aluminum	01105	1942000	1942000
Ammonia (as N) (mg/L)	00610	1.886	1.886
Antimony	01097	30	30
Arsenic	01002	63	63
Atrazine	39033	2	2
alpha-BHC	39337	0.053	0.053
Bacteria (Fecal Coliform) (col/100ml)	31616	20	20
Barium	01007	4300	4300
Benzene	34030	5	5

Attachment 1

Annual Facility AGQS Values (Cont.)

PARAMETERS (ug/L)	STORETS	MAPC	AGQS
UNFILTERED (totals)			
Benzo(a)anthracene	34526	0.1	0.1
Benzo(a)Pyrene	34247	0.2	0.2
Benzo(b)fluoranthene	34230	0.10	0.10
Benzo(k)fluoranthene	34242	0.10	0.10
Benzoic Acid	77247	150	150
Beryllium	01012	7.2	7.2
BOD (mg/L)	00310	6	6
Boron	01022	200	200
Bromobenzene	81555	5	5
Bromochloromethane (chlorobromomethane)	77297	5	5
Bromodichloromethane	32101	5	5
Bromoform (Tribromomethane)	32104	5	5
Bromomethane (Methyl Bromide)	34413	5	5
Butanol	45265	40	40
n-Butylbenzene	77342	5	5
sec-Butylbenzene	77350	5	5
tert-Butylbenzene	77353	5	5
Butyl Benzyl Phthalate	34292	10	10
Cadmium	01027	32	32
Calcium (mg/L)	00916	2084.418	2084.418
Carbofuran	81405	0.9	0.9
Carbon Disulfide	77041	100	100
Carbon Tetrachloride	32102	5	5
Chemical Oxygen Demand (COD) (mg/L)	00335	2636	2636
Chlordane	39350	0.1	0.1
Chloride (mg/L)	00940	261.712	261.712
Chlorobenzene	34301	5	5
Chloroethane (Ethyl Chloride)	34311	5	5
Chloroform (Trichloromethane)	32106	5	5
Chloromethane (Methyl Chloride)	34418	5	5
bis(chloromethyl)Ether	34268	2000	2000
o-Chlorotoluene	38680	5	5
p-Chlorotoluene	77277	5	5
Chromium	01034	680	680
Chrysene	34320	5	5
Chlorodibromomethane (Dibromochloromethane)	32105	5	5
Cobalt	01037	370	370
Copper	01042	880	880
o-Cresol	77152	10	10
m/p-Cresol	77146	10	10

Attachment 1

Annual Facility AGQS Values (Cont.)

PARAMETERS (ug/L)	STORETS	MAPC	AGQS
UNFILTERED (totals)			
Cyanide (mg/L)	00720	33	33
Dalapon	38432	1	1
DDT	39300	0.1	0.1
Dibenz(a,h)anthracene	34556	0.1	0.1
Dibromomethane (Methylene Bromide)	77596	5	5
Dicamba	82052	5	5
m-Dichlorobenzene (1,3 Dichlorobenzene)	34566	5	5
o-Dichlorobenzene (1,2 Dichlorobenzene)	34536	5	5
p-Dichlorobenzene (1,4 Dichlorobenzene)	34571	5	5
Dichlorodifluoromethane	34668	5	5
Dichloromethane (Methylene Chloride)	34423	5	5
Dieldrin	39380	0.05	0.05
Diethyl Phthalate	34336	10	10
Dimethyl Phthalate	34341	10	10
Di-N-Butyl Phthalate	39110	10	10
Dinoseb (DNBP)	81287	1	1
Endothall	38926	10	10
Endrin	39390	0.1	0.1
bis(2-Ethylhexyl)Phthalate	39100	10	10
Ethylbenzene	78113	5	5
Ethylene Dibromide (EDB)(1,2-Dibromo ethane)	77651	5	5
Fluoranthene	34376	5	5
Fluorene	34381	5	5
Fluoride (mg/L)	00951	760	760
Heptachlor	39410	0.05	0.05
Heptachlor Epoxide	39420	1	1
Hexachlorobutadiene	39702	5	5
Ideno(1,2,3-cd)pyrene	34403	0.1	0.1
Iodomethane (Methyl Iodide)	77424	5	5
Iron	01045	5780496	5780496
Isophrone	34408	10	10
Isopropylbenzene	77223	5	5
p-Isopropyltoluene	77356	5	5
Lead	01051	500	500
Lindane	39782	0.1	0.1
Magnesium (mg/L)	00927	1143.953	1143.953
Manganese	01055	48267	48267
MCPP	38491	5	5
Mercury	71900	3.5	3.5
Methoxyclor	39480	2	2

Attachment 1

Annual Facility AGQS Values (Cont.)

PARAMETERS (ug/L)	STORETS	MAPC	AGQS
UNFILTERED (totals)			
Molybdenum	01129	10	10
MTBE	46491	3.4	3.4
Naphthalene	34696	10	10
Nickel	01067	870	870
Nitrate-Nitrogen (mg/L)	00620	25.7	25.7
Oil(Hexane-Soluble or Equivalent) (mg/L)	00552	17	17
Parathion	39540	10	10
Pentachlorophenol	39032	50	50
Perchlorate	61209	0.05	0.05
pH	00400		
Phenols	32730	89	89
Phosphorous (mg/L)	00665	1.1	1.1
Picloram	39720	1.0	1.0
Polychlorinated Biphenyls	39516	50	50
Potassium (mg/L)	00937	25.998	25.998
n-Propylbenzene	77224	5	5
Pyrene	34469	5	5
Radium-226 (pCi/L)	09501	0.534	0.534
Radium-228 (pCi/L)	11501	0.636	0.636
Selenium	01147	10	10
Silver	01077	70	70
Simazine	39055	4	4
Sodium (mg/L)	00929	47.572	47.572
Styrene	77128	5	5
Sulfate (mg/L)	00945	85.16	85.16
TOC (mg/L)	00680	93.100	93.100
Tetrachloroethylene (Perchloroethylene)	34475	5	5
Tetrahydrofuran	81607	10	10
Thallium	01059	1000	1000
Toluene	34010	5	5
Toxaphene	39400	2	2
Trichloroethylene (Trichloroethene)	39180	5	5
Trichlorofluoromethane	34488	5	5
Vanadium	01087	80	80
Vinyl Chloride	39175	5	5
Vinyl Acetate	77057	50	50
Xylenes	81551	5	5
o-Xylene	77135	5	5
m/p-Xylene	85795	5	5
Zinc	01092	6611	6611

Attachment 1

Annual Facility AGQS Values (Cont.)

PARAMETERS (ug/L)	STORETS	MAPC	AGQS
UNFILTERED (totals)			
1,1,1,2-Tetrachloroethane	77562	5	5
1,1,1-Trichloroethane	34506	5	5
1,1,2,2-Tetrachloroethane	34516	5	5
1,1,2-Trichloroethane (Methylchloroform)	34511	5	5
1,1-Dichloroethane	34496	5	5
1,1-Dichloroethylene	34501	5	5
1,1-Dichloropropene	77168	5	5
1,2,3-Trichlorobenzene	77613	10	10
1,2,3-Trichloropropane	77443	15	15
1,2,4-Trichlorobenzene	34551	10	10
1,2,4-Trimethylbenzene	77222	10	10
1,2-Dibromo-3-Chloropropane (DBCP)	38760	25	25
cis-1,2-Dichloroethylene	77093	5	5
trans-1,2-Dichloroethylene	34546	5	5
1,2-Dichloroethane	34531	5	5
1,2-Dichloropropane (Propylene Dichloride)	34541	5	5
1,3,5-Trimethylbenzene	77226	10	10
1,3-Dichloropropane	77173	5	5
1,3-Dichloropropene	34561	10	10
cis-1,3-Dichloropropene	34704	10	10
trans-1,3-Dichloropropene	34699	10	10
trans-1,4-Dichloro-2-Butene	73547	100	100
1,4-Dioxane	81582	520	520
2,2-Dichloropropane	77170	15	15
2,4,5-TP (Silvex)	39760	2	2
2,4-Dichlorophenoxyacetic Acid (2,4-D)	39730	10	10
2-Butanone(Methyl Ethyl Ketone)	81595	100	100
2-Hexanone (Methyl Butyl Ketone)	77103	50	50
2-Methylnaphthalene	77152	5	5
2-Methylphenol	77152	5	5
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	78133	100	100

NOTE: AGQS and MAPC values have been calculated using a minimum of four (4) consecutive quarters of groundwater monitoring data and calculated at the 99% Upper Confidence Limit.

Attachment 2:
Intrawell AGQS values

1950350014 - Prairie Hill RDF
Permit No. 1994-579-LF
Log No. 2019-480

Inorganics	Units	Site AGQS	G1C2 AGQS	G1C3 AGQS	G1E2 AGQS	G1K2 AGQS	G1K3 AGQS	G1K8 AGQS	G1K9 AGQS	G1L0 AGQS	G1L1 AGQS	G1L2 AGQS	G1L3 AGQS	G1L4 AGQS
Dissolved														
Ammonia	mg/L	1.886	1.9	1.886	1.886	5.83		9.45				3.82		
Arsenic	ug/L	23	23	23	23		32.66	133.1			103			
BOD	mg/L											16.2	21.3	
Boron	ug/L	50	94	95.75	50			89.5						
Cadmium	ug/L	40	40	40	40									
Chloride	mg/L	261.7	261.7	261.7	261.7			29.45	3.82					
Cyanide	mg/L	0.033	0.033	0.033	0.033									
Iron	ug/L	5200	11460	10800	6797		30730			6713		8200		
Lead	ug/L	5.8	5.8	5.8	5.8									
Magnesium	mg/L							494						
Manganese	ug/L	562	562	562	562									
Nitrate	mg/L	25.7	25.7	25.7	25.7									
Phenols	mg/L	89	89	89	89									
Sulfate	mg/L	85.16	113	85.16	85.16		165.6	2196						
TDS	mg/L	800.539	800.539	800.539	800.539			5846						406
Zinc	ug/L	20	20	20	20									
Totals														
Ammonia	mg/L											3.49		
VOCs														
1,1,1-Trichloroethane	ug/L	5	5	5	5									
1,1-Dichloroethane	ug/L	5	5	13	16									
1,1-Dichloroethene	ug/L	5	5	5	5									
1,2-Dichloroethane	ug/L	5	5	5	5									
1,2-Dichloropropane	ug/L	5	5	5	5									
1,4-Dichlorobenzene	ug/L	5	5	5	5									
Acetone	ug/L	100	100	100	100									
Benzene	ug/L	5	5	5	5									
Chlorobenzene	ug/L	5	5	5	5									
Chloroethane	ug/L	5	5	5	5									
Chloroform	ug/L	5	5	5	5									
Chloromethane	ug/L	5	5	5	5									
CIS-1,2-Dichloroethene	ug/L	5	5	5	5									
Dichlorodifluoromethane	ug/L	5	5	5	5									
Methylene Chloride	ug/L	5	5	5	5									
Tetrachloroethene	ug/L	5	5	5	5									
Toluene	ug/L	5	5	5	5									
Trans-1,2-Dichloroethene	ug/L	5	5	5	5									
Trichloroethene	ug/L	5	5	5	5									
Vinyl Chloride	ug/L	5	5	5	5									
Xylene	ug/L	5	5	5	5									

Attachment 2:
Intrawell AGQS values

Inorganics	Units	Site AGQS	GIL5 AGQS	GIL6 AGQS	GIL9 AGQS	GIM0 AGQS	GIM1 AGQS	GIM2 AGQS	GIM3 AGQS	GIM6 AGQS	GIM8 AGQS	GIM9 AGQS		
Dissolved														
Ammonia	mg/L	1.886					1.886	2.76	1.886					
Arsenic	ug/L	23					23	23	23					
BOD	mg/L						19.3	9.4						
Boron	ug/L	50					71	54.2	50					
Cadmium	ug/L	40					40	40	40					
Chloride	mg/L	261.7					261.7	261.7	261.7			1016.3		
Cyanide	mg/L	0.033					0.033	0.033	0.033					
Iron	ug/L	5200	23,505		6733	12183	10800	9537	5200					
Lead	ug/L	5.8					5.8	5.8	5.8					
Magnesium	mg/L													
Manganese	ug/L	562					562	562	562					
Nitrate	mg/L	25.7					25.7	25.7	25.7					
Phenols	mg/L	89					89	89	89					
Sulfate	mg/L	85.16		104.83			85.16	85.16	85.16	21	187.5	385.5		
TDS	mg/L	800.539					1034	800.539	800.539			2306.1		
Zinc	ug/L	20					20	20	20					
Totals														
Ammonia	mg/L													
VOCs														
1,1,1-Trichloroethane	ug/L	5					5	5	5					
1,1,-Dichloroethane	ug/L	5				45.4	19	5	5	21				
1,1-Dichloroethene	ug/L	5					5	5	5					
1,2-Dichloroethane	ug/L	5					5	5	5					
1,2-Dichloropropane	ug/L	5					5	5	5					
1,4-Dichlorobenzene	ug/L	5					5	5	5					
Acetone	ug/L	100					100	100	100					
Benzene	ug/L	5					5	5	5					
Chlorobenzene	ug/L	5					5	5	5					
Chloroethane	ug/L	5				71	250	5	5					
Chloroform	ug/L	5					5	5	5					
Chloromethane	ug/L	5					5	5	5					
CIS-1,2-Dichloroethene	ug/L	5					5	5	5	11				
Dichlorodifluoromethane	ug/L	5					5	5	5					
Methylene Chloride	ug/L	5					5	5	5					
Tetrachloroethene	ug/L	5					5	5	5					
Toluene	ug/L	5					5	5	5					
Trans-1,2-Dichloroethene	ug/L	5					5	5	5					
Trichloroethene	ug/L	5					5	5	5					
Vinyl Chloride	ug/L	5					5	5	5					
Xylene	ug/L	5					5	5	5					

KES:BJB:RD/1950350014-811LF-SM107-2019480-Att2

EXHIBIT E

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 · (217) 782-3397
JB PRITZKER, GOVERNOR JAMES JENNINGS, INTERIM DIRECTOR

217/524-3301

AUG 16 2024

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

9589 0710 5270 0389 7096 69

The County of Whiteside
Attn: Russell Renner
200 E. Knox St.
Morrison, Illinois 61270-9587

Waste Management of Illinois, Inc.
Attn: Joshua Hey, P.E.
18762 Lincoln Road
Morrison, Illinois 61270-9587

Re: 1950350014 -- Whiteside County
Prairie Hill RDF
Permit No. 1994-579-LF
Modification No. 121
Log No. 2024-094
Expiration Date: July 15, 2025
Permit Landfill 811 File – 03S
Permit Approval

Dear Mr. Renner:

Permit has been granted to the County of Whiteside as owner and Waste Management of Illinois, Inc., as operator, approving development of new municipal solid waste landfill (MSWLF) all in accordance with the application and plans provided in Log No. 1994-579, specifications, application, and supporting documents, as submitted and approved, shall constitute part of this permit and are identified in the records of the Illinois Environmental Protection Agency (Illinois EPA), Bureau of Land, Division of Land Pollution Control by the permit number and log number designated in the heading above.

Permit No. 1994-579-LF, issued on July 10, 1995, approved the development of a new putrescible waste landfill unit pursuant to Title 35 Illinois Administrative Code (35 IAC), Subtitle G, Chapter I, Subchapter i, Parts 811, 812, and 813. This 813 landfill is designed to handle municipal solid waste and non-hazardous special waste, with a disposal area of approximately 229 acres and will have a final peak elevation of 877 feet Above Mean Sea Level (AMSL) with an estimated air space capacity (excluding final cover) of 28,300,000 cubic yards. This should provide for the disposal of an estimated 49,800,000 gate yards. Additionally, Permit No. 1994-579-LF approved:

A. The Significant Modification of the development and operation of this landfill so as to comply with the applicable requirements of 35 IAC, Subtitle G, Parts 811 and 812, pursuant to 35 IAC 813.101;

B. Transfer of landscape waste and recyclables; and

C. Acceptance of special waste streams without individual special waste stream authorizations, in accordance with the conditions listed in Part III of this permit.

Note: Modification No. 25 to Permit No. 1994-579-LF reduced the disposal area from approximately 229 acres to approximately 226.6 acres. This reduction in disposal area is due to redesign of the landfill proposed in Log No. 2001-229 and approved in Modification No. 25.

Modification No. 121 is hereby granted to the County of Whiteside as owner and Waste Management of Illinois, Inc. as operator, allowing modification of an existing MSWLF all in accordance with Log No. 2024-094. Log No. 2024-094 was prepared, signed, and sealed by Brian J. Horvath, P.E., of IngenAE, LLC., on March 4, 2024.

The permit application approved by Modification No. 121 consists of the following documents:

DOCUMENT	DATED	DATE RECEIVED
Original Application Log No. 2024-094	March 2024	April 4, 2024
Additional Information	N/A July 2, 2024 July 26, 2024	April 5, 2024 July 8, 2024 July 31, 2024

Modification No. 121 approves:

A. The construction acceptance report for the 2023 Gas Collection and Control System Construction.

B. The proposed removal of two 21,000-gallon leachate storage tanks near the southwest corner of the landfill.

Except for the differences described in the table below, the conditions in Modification No. 121 to Permit No. 1994-579-LF are identical to the conditions in Modification No. 120 issued August 5, 2024.

Condition No. in Modification No. 120	Condition No. in Modification No. 121	Description of Revision
V.11	V.11	Updated condition for the proposed remov two 21,000-gallon leachate storage tanks.
V.12	V.12	Update condition to include current leachate storage tank capacity.
VII.11	VII.11	Updated the number of gas extraction wells.

Pursuant to Section 39(a) of the Illinois Environmental Protection Act (Act) [415 ILCS 5/39(a)] and 35 IAC 813.104(b), this permit is issued subject to the development, operating and reporting

requirements for non-hazardous waste landfills in 35 IAC Parts 810, 811, 812, 813 and 814 the standard conditions attached hereto, and the following conditions. In case of conflict between the permit application and these conditions, the conditions of this permit shall govern.

I. CONSTRUCTION QUALITY ASSURANCE

1. All necessary surface drainage control facilities shall be constructed prior to other disturbance in any area.

2. No part of the new unit shall be placed into service until a acceptance report for all the activities listed below has been submitted to and approved by the Illinois EPA as a permit application pursuant to 35 IAC 811.505(d) and 813.203. A separate permit application for operating authorization will be required for each additional area/structure constructed.

   a. Compaction of the subgrade and foundation to design parameters;

   b. Installation of the compacted earth liner;

   c. Installation of a geomembrane;

   d. Installation of the leachate drainage, collection and management systems;

   e. Application of final cover;

   f. Installation of gas control facilities; and

   g. Construction of ponds, ditches, lagoons and berms.

3. The permittee shall designate an independent third-party contractor as the Construction Quality Assurance (CQA) Officer(s). The CQA Officer(s) shall be an Illinois Certified Professional Engineer who is independent from and not under the control or influence of the operator, any employee of the operator, or any other corporation, company or legal entity that is a subsidiary, affiliate, parent corporation or holding corporation associated with the operator.

4. Except as provided below, the CQA Officer(s) designated pursuant to Condition I.3 shall personally be present during all construction and testing that is subject to CQA certification pursuant to 35 IAC 811.503(a). If the CQA Officer(s) is unable to be present as required, then a written explanation and signed statement must be provided pursuant to 35 IAC 811.503(b).

5. The clay portion of the liner shall be tested for density and moisture content at the rate of five tests per lift per acre.

6. If the clay portion of the liner has been exposed to freezing conditions, it must be retested pursuant to 35 IAC 811.321(b)(4) at the rate of one laboratory

permeability test on an undisturbed sample per acre. The designated CQA officer(s) shall then certify that the clay portion of the liner and all necessary repairs to the geomembrane and leachate drainage layer meet the required design standards. This certification must be provided to the Illinois EPA prior to disposal of waste on the subject portion of the liner. If operating authorization has not yet been issued for that area, the recertification shall be included in the permit application for that area.

7. The CQA Officer's acceptance report for each area proposed for operating authorization shall include a certification that a temporary leachate containment/stormwater diversion berm has been constructed around the perimeter of the area proposed for operation. The berm shall be a minimum of 4 feet in height and be placed as required to prevent leachate accumulations from flowing into the stormwater drainage and control system and prevent stormwater from flowing into the leachate collection system.

8. Applications for operating authorization shall not be made for areas of less than 1.5-acre increments.

9. All standards for testing the characteristics and performance of materials, products, systems and services shall be those established by the American Society for Testing and Materials (ASTM) unless otherwise stated in the permit application.

10. Pursuant to 35 IAC 811.505(d), upon completion of construction of each major phase, the CQA Officer(s) shall submit an acceptance report to the Illinois EPA. The acceptance report shall be submitted before the structure is placed into service and shall contain the following:

    a. A certification by the CQA Officer(s) that the construction has been prepared and constructed in accordance with the engineering design;

    b. As-built drawings; and

    c. All daily summary reports.

11. The incremental development procedure described in Log No. 1997-432 is hereby approved. The following procedure may be used for the completion of the drainage layer and associated filter over a sidewall liner that does not include geosynthetic clay liner and for which an approved permit application authorizing operation has been obtained.

    a. The operator shall maintain a minimum "freeboard" of 1 foot between the top edge of the drainage layer and the waste.

b. Just prior to installing an increment of the drainage layer, the sidewall liner in that area shall be inspected. Any areas damaged shall be reconstructed in accordance with the CQA program approved by this permit.

c. After each increment of the drainage layer and filter up the sidewall is completed, the operator shall provide written notification and documentation of its completion to the Illinois EPA's Rockford Regional Office. Upon receipt of the notification, the inspector shall be allowed 15 days to examine the construction. The Illinois EPA is not obligated to approve the construction or certification. The operator may dispose of refuse against the new increment of drainage layer and filter after the 15-day period if, having complied with the terms of this condition, the operator is not informed of a problem by the Illinois EPA or its agents.

d. At the same time the Rockford Regional Office or delegated government is given notification that an increment of the sidewall drainage layer and filter has been completed, the Permit Section shall be provided with the information required in an Acceptance Report pursuant to 35 IAC 811.505(d) on its construction. (Modification No. 9 – Revised in Modification No. 59)

12. All stakes and monuments marking property boundaries and the permit area shall be maintained, inspected annually and surveyed no less frequently than once in five years by a professional land surveyor. Any missing or damaged stakes or monuments discovered shall be replaced and resurveyed.

13. Effective upon issuance of Modification No. 65 (Log No. 2011-548), all testing, including conformance and seaming, of the geomembrane used shall meet the Geosynthetic Research Institute's requirements with the following exceptions: For the geomembrane used in the bottom liner, the minimum thickness must be within 5% of nominal for all samples, i.e. 60-mil liner must be at least 57-mil; and UV resistance testing is not necessary unless the geomembrane is exposed for more than 30 days.

14. The alternate liner design approved in Modification No. 59 (Log No. 2009-535) allows the incorporation of Geosynthetic Clay Liner (GCL). Table 12-4 of the CQA Plan includes conformance testing requirements for the GCL. Except for permeability, all the GCL properties listed in Table 12-4 of the CQA plan should be tested at least once for every phase of alternate liner construction by an independent third-party laboratory. GCL permeability shall be tested at least once per 100,000 square feet or once per production lot, whichever dictates a higher frequency by an independent third-party laboratory.

15. Operating permit applications for new liners that include GCLs must demonstrate that the internal shear strength of the GCL is greater than the interface strength for GCL/clay liner and geomembrane/GCL interfaces. Both these properties are

included in Table 12-4 of the CQA plan provided in the addendum dated March 17, 2010 to Log No. 2009-535.

16. GCL used on the liner sideslopes shall have minimum peel strength of 12 lbs/inch.

17. The composite liner and leachate collection systems at this landfill consist of the following (descriptions are from top to bottom):

Option A
- 4 oz/yd^2 filter geotextile
- 1-foot thick leachate drainage layer
- 10 oz/yd^2 cushion geotextile
- 60-mil HDPE textured geomembrane
- 3-foot thick compacted clay with hydraulic conductivity no greater than 1 x 10^{-7} cm/sec.

Option B
- 4 oz/yd^2 filter geotextile
- 1-foot thick leachate drainage layer
- 10 oz/yd^2 cushion geotextile
- 60-mil HDPE textured geomembrane
- Geosynthetic Clay Liner (GCL) with hydraulic conductivity no greater than 5 x 10^{-9} cm/sec (2 layers of GCL in all leachate trenches and sumps)
- 3-foot thick compacted clay with hydraulic conductivity no greater than 1 x 10^{-5} cm/sec.

II. OPERATING CONDITIONS

1. Pursuant to 35 IAC 811.107(a) and 811.107(b), throughout the operating life of this landfill, waste shall not be placed in a manner or at a rate which results in unstable internal or external slopes or interference with construction, operation or monitoring activities.

2. The operator of this solid waste facility shall not conduct the operation in a manner which results in any of the following:

   a. refuse in standing or flowing waters;

   b. leachate flows entering Waters of the State;

   c. leachate flows exiting the landfill confines (i.e., the facility boundaries established for the landfill in a permit or permits issued by the Illinois EPA);

   d. open burning of refuse in violation of Section 9 of the Act;

e. uncovered refuse remaining from any previous operating day or at the conclusion of any operating day, unless authorized by permit;

f. failure to provide final cover within time limits established by Illinois Pollution Control Board (Board) regulations;

g. acceptance of wastes without necessary permits;

h. scavenging as defined by Board regulations;

i. deposition of refuse in any unpermitted (i.e., without an Illinois EPA approved permit application authorizing operation) portion of the landfill;

j. failure to submit reports required by permits or Board regulations;

k. failure to collect and contain litter from the site by the end of each operating day.

l. failure to submit any cost estimate for the site or any performance bond or other security for the site as required by Section 21.o.13 of the Act.

3. Moveable, temporary fencing shall be used to prevent blowing litter when the refuse is above the natural ground line.

4. At the end of each day of operation, all exposed waste shall be covered with clean soil at least 6 inches thick or an approved alternate daily cover (ADC).

5. Geotextile fabric panels, thick degradable plastic sheets, clean construction and demolition debris (CCDD), contaminated soil, and auto fluff are approved for use as ADC materials (ADCM) pursuant to the plans in Log Nos. 1994-579, 1996-101, 2001-456, 2008-373, 2016-035, and the conditions listed below. Use of these ADCMs shall be subject to the specific performance based criteria for each ADCM as proposed in Log Nos. 2001-456, 2008-373, and 2016-035, and to the following conditions:

a. The operator shall keep a record when an ADC is used and include a description of the type of alternate cover, weather conditions and its performance. A summary of this information shall be provided with this facility's annual reports.

b. Geotextile fabric panels and plastic sheets shall be anchored adequately to prevent the wind from damaging the integrity of the ADC. If the ADCM is torn during or after placement, it must be repaired immediately or the damaged area covered with six inches of daily cover soil. If tires are used as weights for the ADC, they shall be altered or converted tires, in

accordance with Title 35 IAC Subtitle G, Part 848: Management of Used and Waste Tires.

c. If weather or other conditions exist that adversely affect the ability of the ADC to prevent blowing litter, susceptibility to fire, odors, or vectors, six inches of daily cover soil shall be used.

d. If any ADCMs other than those approved by this permit are to be used, they must be approved by the Illinois EPA through the permit process pursuant to 35 IAC 811.106(b), 812.111(b) and 813.201(a).

e. Any ADC, which has been used for daily cover, shall not be used for any other purpose (including road underlayment and erosion control) outside of the permitted waste boundaries.

f. All ADC must meet the requirements of 35 IAC 811.106(b)(1) through (4) at all times.

g. The condition of the ADCMs used as daily cover shall be inspected at the beginning of each shift to determine if its integrity or continuity has been damaged by sun exposure, wind or physical contact. If the inspection reveals that the structural integrity or continuity has been damaged or if uncovered refuse is observed in the covered areas, the damaged or uncovered areas shall be repaired immediately to restore a continuous uniform cover over the waste. If any problems develop from covering the waste with a particular ADC, the use of the offending cover shall immediately cease until the cause of the problem is determined and necessary corrective action is taken. A record of the inspection and subsequent corrective action taken shall be made available to Illinois EPA personnel upon request.

h. When an ADCM reaches the end of its useful life and can no longer meet the requirements of 35 IAC 811.106(b)(1) through (4), it shall be removed and/or replaced with six inches of cover soil or an approved ADC.

i. If the Illinois EPA's Rockford Regional Office determines that any ADCM is not performing satisfactorily as daily cover, the operator shall cease using it as daily cover immediately upon receipt of a written notification of such determination.

6. The following conditions apply when CCDD debris is used as ADC:

a. CCDD shall meet the definition from Section 3.160(b) of the Act.

b. CCDD shall be placed in a manner that does not leave unacceptably large voids or open passages to the waste mass.

c. A minimum thickness of six inches of CCDD shall be applied as ADC.

d. If the CCDD becomes eroded after placement, it will be repaired immediately or the damaged area will be covered with six inches of daily cover soil or an approved ADC.

e. CCDD shall not be removed after use as an ADC.

f. Storage of CCDD for use as ADC is further subject to the following conditions:

i. Storage shall not exceed 10,000 cubic yards at any time.

ii. Storage shall occur within the landfill waste footprint and shall not exceed the permitted final waste contours.

iii. Any single stockpile shall not exceed a storage time of six months. After six months, the debris shall be used as ADC or disposed in the landfill.

7. The following conditions apply when contaminated soil is used as ADC:

a. Only contaminated soil that has been classified in accordance with the requirements in Section 22.48 of the Act may be used as ADC.

b. Use of contaminated soil as ADC shall be limited to areas where runoff will be collected by the leachate collection system.

c. Contaminated soil shall not be stockpiled. Excess soil beyond the amount needed at the end of the day of operation as daily cover shall be disposed in the landfill.

d. Contaminated soil with obnoxious odors shall not be used as ADC. Each load of contaminated soil to be used as ADC shall be inspected to ensure use as daily cover will prevent the threat of fires and not generate obnoxious odors.

e. Contaminated soil shall not be removed after use as ADC.

f. In addition to the recordkeeping requirements of Conditions II.5(a) and II.5(g), the operator shall keep a record of the date of use as ADC, a description of the contaminant, generator name and number, ADC use location, and quantity used.

8. The following conditions apply when auto fluff is used as ADC:

   a. The landfill operator is responsible for:

      i. Ensuring that auto fluff (aka shredder fluff), which is used as ADCM, remains in the landfill and is not released or dispersed by wind or other action; and

      ii Complying with all applicable Federal, State, and local laws and regulations.

   b. The landfill operator must ensure that all shredder fluff used as ADCM: i) is generated at shredding facilities that have operating plans in place to remove components that may contain polychlorinated biphenyls (PCBs) and other contaminants, and ii) is produced in adherence with the operating plans. Such operating plans must include the following concerning recyclable metals processing and components which may contaminate waste from shredding recyclable metals (such as lead acid batteries, fuel tanks, or components that contain or may contain PCBs in a closed system such as a capacitor or ballast):

      i. Procedures for inspecting recyclable metals when received to assure that such components are identified;
      ii. A list of equipment and removal procedures to be used to assure proper removal of such components;
      iii. Procedures for safe storage of such components after removal and any waste materials;
      iv. Procedures to assure that such components and waste materials will only be stored for a period long enough to accumulate the proper quantities for off-site transportation;
      v. Identification of how such components and waste materials will be managed after removal from the site to assure proper handling and disposal;
      vi. Procedures for sampling and analyzing waste intended for disposal or off-site handling as a waste; and
      vii. A demonstration, including analytical reports, that any waste generated is not a hazardous waste and will not present a potential threat to human health or the environment.

   c. The following conditions apply to the use of shredder fluff as ADCM:

      i. When shredder fluff is used as ADCM, it must be applied in a continuous layer at least six inches thick;
      ii. Shredder fluff from the Pielet Brothers site in Summit, Illinois cannot be used as ADCM;

iii. Only shredder fluff that was generated after the effective day of, and in compliance with, the PCB Mega Rule (63 FR 35383), promulgated on June 29, 1998, can be used as ADCM;
iv. Shredder fluff acceptable for disposal at a RCRA Subtitle D landfill and used in compliance with 40 CFR Part 761 can be used as ADCM;
v. Once applied as ADCM, shredder fluff shall not be removed;
vi. Areas where shredder fluff is used as ADCM must be covered with either conventional soil daily cover or additional waste within a 24-hour period of initial placement;
vii. No stockpiling of shredder fluff is allowed. All shredder fluff received each day must be used as daily cover or disposed of at the active face;
viii Use of shredder fluff as ADCM shall be limited to areas where runoff will be collected by the leachate collection system;
ix. Shredder fluff with obnoxious odors shall not be used as ADCM. Each load of shredder fluff to be used as ADCM shall be inspected to ensure use as ADCM will not generate obnoxious odors and shall prevent the threat of fires; and
x. In addition to the recordkeeping requirements of Conditions II.5(a) and II.5(g), the operator shall keep a record of the date of use of shredder fluff as ADCM, generator name and number, ADCM use location, and quantity used.

9. No later than 60 days after the placement of final lift of waste in any area, the area shall receive a final cover meeting the design specifications proposed in Log Nos. 1994-579, 1999-052, 2001-229, 2007-105 and 2009-535. The final cover system for the entire facility consists of the following layers from bottom of the cover to top of cover:

- 1-foot of compacted clay with hydraulic conductivity no greater than 1 x 10^{-6} cm/sec.
- 40-mil HDPE geomembrane (textured on slopes greater than 10%)
- Geocomposite drainage layer.
- 2.5-feet thick final protective cover.
- 6-inch vegetative soil layer. Compost may be used as a soil amendment in this layer. However, it must be thoroughly incorporated and shall not constitute more than 50 percent (%) of the soil/compost mixture.

10. All waste, which is not covered within 60 days of placement of another lift of waste or final cover, shall have an intermediate cover of compacted clean soil with a minimum thickness of one foot applied to it.

11. The operator shall implement the approved load checking program pursuant to 35 IAC 811.323. When dumping loads for inspection, care shall be taken to keep the waste being inspected isolated and prevent mixing or infiltrating into the landfill proper until it has been determined by the trained load checker that no prohibited wastes are present. If regulated hazardous waste or other unacceptable wastes are

discovered, the Illinois EPA shall be notified no later than 5:00 p.m. the next business day after the day it is detected. The load checker shall prepare a report describing the results of each inspection. A summary of these reports shall be submitted to the Illinois EPA as part of this facility's annual report.

12. Operating hours (gate hours) are those hours during which waste may be accepted. For this facility, the operating hours shall be limited to 5.30 a.m. - 8:00 p.m., Monday through Saturday. On Sundays and major holidays, this facility shall not operate.

13. The operation of this facility shall not cause a violation of the Noise Control Regulations in 35 IAC Subtitle H, Part 901.

14. The use of trailer tippers as described in Log No. 1996-101 is hereby approved. (Modification No. 1)

15. All solid waste disposal fees paid pursuant to Section 22.15(b) and/or 22.44(b) of the Act must be made on a volume basis unless an on-site certified scale is used to determine the weight basis. (Modification No. 3)

16. No waste shall be accepted for disposal unless all necessary equipment, including compactor(s), are available for use on-site when the waste is received. (Modification No. 3)

17. Management of Unauthorized Waste

    a. Landscape waste found to be mixed with municipal waste will be removed the same day and transported to a facility that is operating in accordance with the Act, Title V, Section 21.

    b. Lead-acid batteries will be removed the same day and transported either to a drop-off center handling such waste, or to a lead-acid battery retailer.

    c. Potentially infectious medical waste (PIMW) found to be mixed with municipal waste shall be managed in accordance with 35 IAC Subtitle M.

    d. Tires found to be mixed with municipal waste shall be removed and managed in accordance with 35 IAC Part 848.

    e. White good components mixed with municipal waste shall be removed and managed in accordance with Section 22.28 of the Act.

    f. This facility is prohibited from disposing any waste containing PCBs in concentration greater than allowed, pursuant to the Toxic Substances Control Act (TSCA).

g. No liquid waste as determined by the Paint Filter Test shall be disposed unless the waste is from a household or is in a small container similar in size to that normally found in household waste and the container was designed for use other than storage. The prohibition applies to on-site generated wastes except for leachate or gas condensate that is specifically approved for recirculation into the landfill by permit. However, minor amounts of liquid resulting from precipitation (rain, sleet, hail or snow) during transport and disposal operations shall not be construed as a violation of this condition.

h. In accordance with Section 21.6 of the Act, beginning July 1, 1996, no owner or operator of a sanitary landfill shall accept liquid used oil for final disposal that is discernable in the course of prudent business operation.

i. In accordance with Subsection (b) of Section 1-83 of the Consumer Electronics Recycling Act (415 ILCS 151), *beginning January 1, 2019, no person may knowingly cause or allow the disposal of a CED* (covered electronic device), *or any other computer, computer monitor, printer, television, electronic keyboard, facsimile machine, videocassette recorder, portable digital music player, digital video disc player, video game console, electronic mouse, scanner, digital converter box, cable receiver, satellite receiver, digital video disc recorder, or small-scale server in a sanitary landfill.*

j. After the unauthorized waste has been removed, a thorough cleanup of the affected area will be made according to the type of unauthorized waste managed. Records shall be kept for three years and will be made available to the Illinois EPA.

18. Waste disposal operations shall be restricted to areas of the landfill specifically approved by the Illinois EPA for operation or granted operating authorization pursuant to 35 IAC 813.203. Such areas at this landfill are presently limited to:

a. The approximately 6.5 acres of Cell 1, Phase I, in accordance with the application and plans provided in Log No. 1996-205 and approved by Modification No. 3.

b. The approximately 6.5 acres of Cell 2, Phase I, in accordance with the application and plans provided in Log No.1996-359 and approved by Modification No. 4. This includes additional information (Sections 1-2 and 4-6) received November 18, 1996 as part of Log No. 1996-389.

c. The approximately 6.2 acres of Cell 1, Phase 2, in accordance with the application and plans provided in Log No. 1998-383 and approved by Modification No. 13.

d. The approximately 6.1 acres of Cell 2, Phase 2, in accordance with the application and plans provided in Log No. 2000-192 and approved by Modification No. 18.

e. The approximately 6.0 acres of Cell 1, Phase 3, in accordance with the application and plans provided in Log No. 2001-332 and approved in Modification No. 22.

f. The approximately 9.4 acres of Cell 1, Phase 4, in accordance with the application and plans provided in Log No. 2002-333 and approved in Modification No. 28.

g. The approximately 6.9 acres of Cell 2, Phase 4, in accordance with the application and plans provided in Log No. 2003-391 and approved in Modification No. 30.

h. The approximately 8.5 acres of Cell 1 South, Phase 5, in accordance with the application and plans provided in Log No. 2005-382 and approved in Modification No. 38.

i. The approximately 9.61 acres of Cell 1 North, Phase 5, in accordance with the application and plans provided in Log No. 2006-422 and approved in Modification No. 43.

j. The approximately 17.4 acres of Cell 2, Phase 5, in accordance with the application and plans provided in Log No. 2007-447 and approved in Modification 49.

k. The approximately 10.5 acres of Cell 3 East, Phase 5 in accordance with application and plans provided in Log No. 2010-331 and approved in Modification No. 57.

l. The approximately 7.1 acres of Cell 3 West, Phase 5 in accordance with application and plans provided in Log No. 2011-373 and approved in Modification No. 64.

m. The approximately 8.8 acres of Cell 2, Phase 7, in accordance with the application and plans provided in Log No. 2012-430 and approved in Modification No. 69.

n. The approximately 7.4 acres of Cell 1-west, Phase 7, in accordance with the application and plans provided in Log No. 2013-360, and approved in Modification No. 76.

o. The approximately 5.2 acres of Cell 1-east, Phase 7, in accordance with the application and plans provided in Log No. 2014-351, and approved in Modification No. 80.

p. The approximately 7.6 acres of Phase 6-west, in accordance with the application and plans provided in Log No. 2015-156, and approved in Modification No. 89.

q. The approximately 5.5 acres of Phase 6-east, in accordance with the application and plans provided in Log No. 2017-435, and approved in Modification No. 98.

19. Washing of landfill operating equipment with a low volume, high pressure washer as proposed in Log No. 2004-047 is hereby approved, subject to the following conditions:

a. The spent spray from washing landfill operating equipment is leachate, as defined in 35 IAC 810.103 and shall be managed as such; and

b. This activity shall be limited to the wash bay located within the maintenance building (Log No. 2011-441) and active disposal areas of the landfill.

20. Landscape waste (Yardwaste) transfer areas shall be operated in accordance with the following conditions (Log Nos. 2006-474 and 2011-441):

a. Landscape waste transfer areas shall be located next to the citizen drop-off area (in a roll-off box) and in the area identified as Yardwaste Pad in Log No. 2006-474;

b. At the end of each day of operation, all landscape waste stored in the roll-off box shall be covered with a waterproof tarp. When the use of waterproof tarp as cover is permanently discontinued, then a permanent cover, in the form of a metal roof, shall be installed over Yardwaste Pad. Waterproof tarp over the roll-off box is not required if it is placed under the metal roof. Storage shall not exceed three days;

c. If odors are observed, landscape waste shall be covered with a waterproof tarp and taken to a compost facility the same day the problem is identified. Alternatively, odor suppressant may be sprayed on the material to address the problem. In any case, odor problems must be addressed the same day they are identified;

d. Berms shall be constructed around the landscape waste transfer area to control surface water run-off; and

e. Landscape waste shall be confined within the transfer areas identified above. This may be achieved by the use of litter fencing, berms, tarps and litter pickers.

21. The storage of loaded transfer trailers at the facility is hereby approved as proposed in Log No. 2006-398 and subject to the following conditions:

a. The loaded transfer trailers shall be stored only on the transfer trailer storage area located south of the maintenance shop and identified in the addendum dated December 15, 2006 to Log No. 2006-398;

b. The surface of the transfer trailer storage pad shall consist of concrete or asphalt at least six inches thick and shall be sloped to a catch basin. The catch basin shall be equipped with a valve to close off the discharge culvert. If evidence of leaky containers or leachate is observed, the catch basin valve shall remain closed and the collected liquid shall be managed as leachate;

c. The containers shall be covered with tarps at all times;

d. All the waste in the parked trailers shall be disposed at the active face of the landfill the next operating day;

e. Trailers containing odiferous loads shall be disposed the same day or at the beginning of the next operating day. Additionally, the operator shall implement odor control measures like using solid tarps to control odors from these loads;

f. No more than 30 transfer trailers shall be parked overnight;

g. The operating hours of the transfer trailer storage area is 5:00 a.m. to 10:00 p.m. Monday through Saturday. A security gate and fencing as described in Log No. 2006-398 shall be installed to prevent any illegal dumping outside of the landfill operating hours;

h. When waste disposal operations at the landfill are suspended or cease, storage of transfer trailers loaded with waste shall be discontinued.

i. Upon completion of construction of the transfer trailer storage pad, the operator shall provide a written notification of its completion to the Illinois EPA's Rockford Regional Office. Upon receipt of notification, the inspector shall be allowed 15 working days to examine the construction. The Illinois EPA is not obligated to approve the construction or certification. The operator may begin to store waste transfer trailers on the storage pad if the operator is not informed of a problem by the Illinois EPA or its agents; and

j. At the same time the Illinois EPA's Rockford Regional Office is given notification that the transfer trailer storage pad has been completed, the Permit Section shall be provided with the information on its construction in an Acceptance Report pursuant to 35 IAC 811.505(d) on its construction. (Modification No. 45)

22. The following recommendations for interim slope approved in Permit No. 1994-579-LF remain in effect and must be complied with:

a. The overall maximum height of the interim slope height should not exceed 90 feet;

b. Minimum base length required for any given slope height is five times the height of the interim slope.

23. Modification No. 60 to Permit No. 1994-579-LF approves a revised phasing plan as proposed in Log No. 2011-080. Under the revised phasing plan, the filling shall progress as follows: Phase 7-West, Phase 7-East, Phase 6-West, Phase 6-East, Phase 8-Cell 1, Phase 8-Cell 2, Phase 8-Cell 3, Phase 9, and Phase 10.

24. Road building materials used to construct roads at the facility that are not solid waste may be stockpiled on-site in the amount estimated to be needed within the next construction season provided they are managed in accordance with 35 IAC 811.108(c)(1).

25. Asbestos debris from construction-demolition shall be managed in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations.

26. If it is required for the facility to be open beyond normal operating hours to respond to emergency situations, a written record of the date(s), times and reason the facility was open shall be made part of the operating record for the facility. The Illinois EPA-FOS Regional Office, and when applicable, the county authority responsible for inspections of this facility per a delegation agreement with the Illinois EPA, shall be notified no later than 5:00 p.m. the next business day following the acceptance of waste outside the specified operating hours.

27. Information developed by the operator but not yet forwarded to the Illinois EPA in a quarterly or annual report shall be kept at or near the facility for inspection by the Illinois EPA or their designee through an Intergovernmental Agreement upon request during normal working hours.

III. SPECIAL WASTE

1. The permittee is authorized to accept non-hazardous special waste that meets the definition of industrial process waste or pollution control waste as found in Sections 3.235 and 3.335, respectively, of the Act, in accordance with the following requirements:

   a. The waste is analyzed in accordance with the requirements described below and complies with the acceptance criteria in the approved waste analysis plan;

   b. The waste is delivered by an Illinois licensed special waste hauler or an exempt hauler as defined in 35 IAC 809.211; and

   c. The waste is accompanied by a manifest, if required.

2. The permittee shall obtain a completed Special Waste Preacceptance Form, found on the Illinois EPA website, and a preacceptance analysis from each generator for each waste to be accepted. In addition, the Annual Generator Special Waste and Recertification for Disposal of Special Waste form, found on the Illinois EPA website, which certifies the waste has not changed since the last analysis, must be completed and included in the operating record. A complete laboratory analysis must be provided with the exceptions listed below.

   Analysis shall be conducted using SW-846 test methods. The waste shall be reanalyzed at least every five years and must identify the actual concentration of each chemical constituent and state of each physical parameter. In all cases, a copy of the lab analysis (on lab letterhead and signed by a responsible party such as the person conducting the analysis or his/her supervisor) must be included in the operating record with the Special Waste Preacceptance Form (Profile Identification Sheet). The analysis may not be greater than one year old at the time. A new analysis is required if the composition of the waste changes (normal variations in waste composition are expected and are not included in this requirement). All waste must be analyzed as follows:

   a. The permittee shall obtain the following lab analyses:
      Paint Filter Test
      Flash point
      Sulfide (reactive)
      Cyanide (reactive)
      Phenol (total)
      pH (S.U.)
      Toxicity Characteristic Constituents

   b. The permittee shall obtain analysis for reactive sulfides (H2S) and cyanides (HCN). Waste containing 250 ppm or greater reactive cyanide or 500 ppm

or greater reactive sulfide, is presumed to be hazardous waste pursuant to 35 IAC 721.123(a)(5) unless specific information to show it does not present a danger to human health or the environment is provided. Analysis for total sulfide and/or cyanide may be substituted for reactive concentrations if they are equal to or less than 10 ppm. For wastes containing greater than 10 ppm reactive cyanide or reactive sulfide, the permittee shall not accept the waste unless the generator provides a signed and dated statement indicating the following:

i. The waste has never caused injury to a worker because of H_2S and/or HCN generation;

ii. That the OSHA work place air concentration limits for H_2S and/or HCN have not been exceeded in areas where the waste is generated, stored or otherwise handled; and

iii. That air concentrations of H_2S and/or HCN above 10 ppm have not been encountered in areas where the waste is generated, stored or otherwise handled.

c. The permittee shall obtain analysis for phenols. If the total phenol concentration is greater than 1000 ppm, the waste will be required to be drummed and labeled, unless justification that this precaution is not necessary is provided. The justification must demonstrate skin contact is unlikely during transport or disposal.

d. The permittee shall obtain metals and organics analysis. Either procedure may be utilized (i.e., total or TCLP), but any constituent whose total concentration exceeds the TCLP limit specified in 35 IAC 721.124 must be analyzed using the TCLP test and the results reported, unless an alternative test has been approved by the Illinois EPA. TCLP test methods must be in accordance with SW 846-1311.

e. EXCEPTIONS:

i. The generator may certify that the eight pesticides (D012, D013, D014, D015, D016, D017, D020 and D031) would not reasonably be expected to be present in the waste based on the nature of the process generating the waste.

ii. Petroleum-contaminated media and debris from LUST sites subject to corrective action regulation under 35 IAC Parts 731 and 732 are temporarily exempt from complete TCLP analysis and the generator may limit analyses to flashpoint, paint filter test and TCLP lead.

iii. For off-specification, unused or discarded commercial or chemical products, a Safety Data Sheet (SDS) to determine the hazardous constituents present may be provided in lieu of analytical results.

f. CLARIFICATIONS:

Notwithstanding the exception for manufactured gas plant waste contained in 35 IAC 721.124(a), no manufactured gas plant waste shall be disposed in a non-hazardous waste landfill, unless: i) the waste has been tested in accordance with subsection (d) of this condition, and ii) the analysis has demonstrated that the waste does not exceed the regulatory levels for any contaminant given in the table contained in 35 IAC 721.124(b).

g. Pursuant to 35 IAC 722.111, the generator of a solid waste is required to determine if the waste is hazardous and comply with all applicable hazardous waste regulations. For any waste that has been determined to be hazardous, the results of quality assurance testing for the treatment program, taken at an appropriate frequency to demonstrate the waste is no longer hazardous, must be obtained. Verification that the waste meets the land disposal restrictions must also be documented. These requirements are in addition to the other standard special waste test requirements.

3. Special waste generated due to an emergency situation may be disposed without complete TCLP analysis if:

a. The permittee receives authorization from the Emergency Response Unit of the Illinois EPA at 1-217-782-3637;

b. The permittee ensures that the generator has received an incident number from the Illinois Emergency Management Agency at 1-800-782-7860 within Illinois, or 1-217-782-7860 outside of Illinois; and

c. The waste is analyzed for the chemical constituents required by the Emergency Response Unit.

4. The permittee shall conduct the following analyses for waste received in labeled containers in lab packs, including commingled wastes:

a. Compatibility review in accordance with the procedures identified in USEPA document EPA-600/2-80-076; and

b. SDS review to determine the hazardous constituents present and appropriate USEPA hazardous waste class.

5. RCRA empty containers received as a special waste are subject to the following conditions:

   a. Containers have a rated capacity of less than 110 gallons only.

   b. Containers which formerly held 'P' listed hazardous waste must be triple rinsed in accordance with 35 IAC 721.107(b)(3)(A).

   c. TSCA regulated quantities of PCBs or empty compressed gas cylinders are not included under this permit. Containers which formerly held TSCA regulated quantities of PCBs are subject to the TSCA requirements administered by the USEPA.

   d. All containers must meet the definition of empty as described in 35 IAC 721.107(b).

   e. Additionally, where possible, a copy of the SDS for products last present in the container shall be obtained and kept on file.

   f. For drums, at least one end must be removed and the drums must be crushed flat.

6. The Special Waste Preacceptance Form, found on the Illinois EPA website, shall be utilized for the special waste profile identification requirements of 35 IAC 811.404(a).

7. The Annual Generator Special Waste Recertification for Disposal Special Waste form, found on the Illinois EPA website, shall be utilized for the special waste recertification requirements of 35 IAC 811.404(b).

8. The operator shall retain all special waste records until the end of the post-closure period in accordance with 35 IAC 811.405.

IV. GENERAL CONDITIONS

1. This permit is issued with the expressed understanding that no process discharge to Waters of the State or to a sanitary sewer will occur from these facilities except as authorized by a permit issued by the Bureau of Water - Division of Water Pollution Control.

2. Site surface drainage, during development, during operation and after the site is closed, shall be managed in accordance with the approved drainage control plan.

3. If changes occur which modify any of the information the permittee has used in obtaining a permit for this facility, the permittee shall notify the Illinois EPA. Such changes would include but not be limited to any changes in the names or addresses of both beneficial and legal titleholders to the herein-permitted site. The

notification shall be submitted to the Illinois EPA within 15 days of the change and shall include the name or names of any parties in interest and the address of their place of abode; or, if a corporation, the name and address of its registered agent.

4. The Illinois EPA reserves the right to require installation of additional monitoring devices, to require analyses for certain parameters, to alter the sample parameters list and to modify the method of evaluating the monitoring results as necessary to fulfill the intent and purpose of the Act or Board regulations.

5. This permit is subject to review and modification by the Illinois EPA as deemed necessary to fulfill the intent and purpose of the Act, and all applicable environmental rules and regulations.

6. Pursuant to 35 IAC 813.201(a), any modifications to this permit shall be proposed in the form of a permit application and submitted to the Illinois EPA.

7. Pursuant to 35 IAC 813.301, an application for permit renewal shall be filed with the Illinois EPA at least 90 days prior to the expiration date of this permit.

8. The septic fields on this site are approved for the disposal of on-site generated sanitary waste from septic systems. Any disposal of non-sanitary waste such as stormwater runoff, landfill leachate or discharge from service bay drains will cause the septic field to be considered a waste disposal well pursuant to the Underground Injection Control (UIC) regulations. Operators of UIC wells must, at a minimum, submit information to the Illinois EPA pursuant to 35 IAC 704.148 and 704.149.

9. The soil stockpile locations proposed in Log No. 1996-101 are hereby approved. All runoff from the stockpiles shall be managed pursuant to the stormwater management plan and be directed to sedimentation basins as necessary to comply with 35 IAC 811.103(a). (Modification No. 1)

10. The transfer of partial ownership of the facility from Waste Management of Illinois, Inc. to Whiteside County is hereby approved (Modification No. 8).

11. The use of a dewatering system for construction as proposed in Log No. 1998-104 is hereby approved (Modification No. 10).

12. Current, valid Prior Conduct Certification pursuant to 35 IAC Part 745 is required for all landfill operators of landfills that require a permit.

13. Landfill Operator Certification pursuant to 68 IAC Part 870 is required for operation of a landfill.

14. The permittee shall submit current 39(i) certifications and supporting documentation with all applications for a permit.

V. LEACHATE MANAGEMENT/MONITORING

1. Pursuant to 35 IAC 811.309(h)(3), leachate from this MSWLF shall be collected and disposed beginning as soon as it is first produced and continuing for at least 30 years after closure except as otherwise provided by 811.309(h)(4) and (h)(5). Collection and disposal of leachate may cease only when the conditions described in 35 IAC 811.309(h)(2) have been achieved. Leachate removed from this landfill shall be treated at an Illinois EPA permitted facility in accordance with the leachate management plan proposed in Log Nos. 1994-579 and 2001-229.

2. Pursuant to 35 IAC 811.307(a) and (b), 811.308(a) and (h), and 811.309(a), leachate shall be pumped from the side slope riser sump(s) before the level of leachate rises above the invert of the collection pipe(s) at its lowest point(s). Leachate removal as such shall be performed throughout the period that the leachate collection/management system must be operated in accordance with Log Nos. 1994-579 and 2001-229.

3. The following monitoring points are to be used in the Leachate Monitoring Program for this facility as identified on plan sheet C-11 of Log No. 2001-229 and approved in Modification No. 25.

Leachate Monitoring Points

Applicant Designation	Illinois EPA Designation
L301	L301
L302	L302
L303	L303
L304	L304
L305	L305
L306	L306
L307	L307
L308	L308
L309	L309
@L310	@L310
@L311	@L311
@L312	@L312

@ indicates leachate monitoring points not yet placed into service.

4. Pursuant to 35 IAC 811.309(g), 722.111 and 721, Subpart C, leachate monitoring (i.e., sampling, measurements and analysis) must be conducted in accordance with the permit for this facility. The concentrations or values for the parameters contained in List L1 (below) must be determined on a semi-annual basis and the results must be submitted with the groundwater reports. Each year, the permittee

shall collect a representative leachate sample and have it tested for the parameters contained in List L2.

Condition V.5 presents the sampling, testing and reporting schedules in tabular form. Leachate monitoring at each monitoring point shall continue as long as groundwater monitoring at this landfill is necessary pursuant to 35 IAC 811.319(a)(1)(C).

LIST L1

Leachate Monitoring Parameters	STORET
pH (S.U.)	00400
Elevation Leachate Surface (ft. AMSL)	71993
Bottom of Well Elevation (ft. AMSL)	72020
Leachate Level from Measuring Point (ft.)	72109
Arsenic (total)	01002
Barium (total)	01007
Cadmium (total)	01027
Iron (total)	01045
Ammonia Nitrogen – N (mg/L)	00610
Bacteria (Fecal Coliform) (CFU/100 mL)	31616
Biochemical Oxygen Demand (BOD5) (mg/L)	00310
1,1,1,2-Tetrachloroethane	77562
1,1,1-Trichloroethane	34506
1,1,2,2-Tetrachloroethane	34516
1,1,2-Trichloroethane	34511
1,1-Dichloroethane	34496
1,1-Dichloroethylene	34501
1,1-Dichloropropene	77168
1,2,3-Trichlorobenzene	77613
1,2,3-Trichloropropane	77443
1,2,4-Trichlorobenzene	34551
1,2,4-Trimethylbenzene	77222
1,2-Dibromo-3-Chloropropane	38760
1,2-Dichloroethane	34531
1,2-Dichloropropane	34541
1,3,5-Trimethylbenzene	77226
1,3-Dichloropropane	77173
1,3-Dichloropropene	34561
1-Propanol	77018
2,2-Dichloropropane	77170

LIST L1

Leachate Monitoring Parameters	STORET
2,4,5-tp (Silvex)	39760
2,4,6-Trichlorophenol	34621
2,4-Dichlorophenol	34601
2,4-Dichlorophenoxyacetic Acid (2,4-D)	39730
2,4-Dimethylphenol	34606
2,4-Dinitrotoluene	34611
2,4-Dinitrophenol	34616
2,6-Dinitrotoluene	34626
2-Chloroethyl Vinyl Ether	34576
2-Chloronaphthalene	34581
2-Chlorophenol	34586
2-Hexanone	77103
2-Propanol (Isopropyl Alcohol)	81310
3,3-Dichlorobenzidine	34631
4,4-DDD	39310
4,4-DDE	39320
4,6-Dinitro-O-Cresol	34657
4-Bromophenyl Phenyl Ether	34636
4-Chlorophenyl Phenyl Ether	34641
4-Methyl-2-Pentanone	78133
4-Nitrophenol	34646
Acenaphthene	34205
Acetone	81552
Alachlor	77825
Aldicarb	39053
Aldrin	39330
Alpha – BHC	39337
Aluminum	01105
Anthracene	34220
Antimony	01097
Atrazine	39033
Benzene	34030
Benzo (a) Anthracene	34526
Benzo (a) Pyrene	34247
Benzo (b) Fluoranthene	34230
Benzo (ghi) Perylene	34521
Benzo (k) Fluoranthene	34242

LIST L1

Leachate Monitoring Parameters	STORET
Beryllium (total)	01012
Beta – BHC	39338
Bicarbonate (mg/L as CaCO3)	00425
Bis (2-Chloro-1-Methylethyl) Ether	73522
Bis (2-Chloroethoxy) Methane	34278
Bis (2-Chloroethyl) Ether	34273
Bis (2-Ethylhexyl) Phthalate	39100
Bis(Chloromethyl) Ether	34268
Boron	01022
Bromobenzene	81555
Bromochloromethane	77297
Bromodichloromethane	32101
Bromoform	32104
Bromomethane	34413
Butanol	45265
Butyl Benzyl Phthalate	34292
Calcium (mg/L)	00916
Carbofuran	81405
Carbon Disulfide	77041
Carbon Tetrachloride	32102
Chemical Oxygen Demand (COD) (mg/L)	00335
Chlordane	39350
Chloride (mg/L)	00940
Chlorobenzene	34301
Chloroethane	34311
Chloroform	32106
Chloromethane	34418
Chromium (total)	01034
Chrysene	34320
Cis-1,2-Dichloroethylene	77093
Cobalt (total)	01037
Copper (total)	01042
Cyanide (mg/L)	00720
DDT	39370
Delta – BHC	46323
Di-N-Butyl Phthalate	39110
Di-N-Octyl Phthalate	34596

LIST L1

Leachate Monitoring Parameters	STORET
Dibenzo (a,h) Anthracene	34556
Dibromochloromethane	32105
Dibromomethane	77596
Dichlorodifluoromethane	34668
Dichloromethane	34423
Dieldrin	39380
Diethyl Phthalate	34336
Dimethyl Phthalate	34341
Endosulfan I	34361
Endosulfan II	34356
Endosulfan Sulfate	34351
Endrin	39390
Endrin Aldehyde	34366
Ethyl Acetate	81585
Ethylbenzene	78113
Ethylene Dibromide (EDB)	77651
Fluoranthene	34376
Flourene	34381
Fluoride (mg/L)	00951
Heptachlor Epoxide	39420
Heptachlor	39410
Hexachlorobenzene	39700
Hexachlorobutadiene	39702
Hexachlorocyclopentadiene	34386
Hexachloroethane	34396
Indeno (1,2,3-cd) Pyrene	34403
Iodomethane	77424
Isopropylbenzene	77223
Lead (total)	01051
Lindane	39782
Magnesium (total) (mg/L)	00927
Manganese (total)	01055
Mercury (total)	71900
Methoxychlor	39480
Methyl Ethyl Ketone	81595
Naphthalene	34696
Nickel (total)	01067

LIST L1

Leachate Monitoring Parameters	STORET
Nitrate-Nitrogen (mg/L)	00620
Nitrobenzene	34447
Oil. Hexane Soluble (or Equivalent) (mg/L)	00550 or 00552
Parathion	39540
Pentachlorophenol	39032
Phenanthrene	34461
Phenols	32730
Phosphorous (mg/L)	00665
Polychlorinated Biphenyls	39516
Potassium (mg/L)	00937
Pyrene	34469
Selenium	01147
Silver (total)	01077
Specific Conductance (umhos/cm)	00094
Sodium (mg/L)	00929
Styrene	77128
Sulfate (mg/L)	00945
Temperature of Leachate Sample (°F)	00011
Tert-Butylbenzene	77353
Tetrachlorodibenzo-p-Dioxins	34675
Tetrachloroethylene	34475
Tetrahydrofuran	81607
Thallium	01059
Tin	01102
Toluene	34010
Total Organic Carbon (TOC) (mg/L)	00680
Total Dissolved Solids (TDS) (mg/L)	70300
Total Suspended Solids (TSS) (mg/L)	00530
Toxaphene	39400
Trans-1,2-Dichloroethylene	34546
Trans-1,3-Dichlorpropene	34699
Trans-1,4-Dichloro-2-Butene	73547
Trichloroethylene	39180
Trichlorofluoromethane	34488
Vinyl Acetate	77057
Vinyl Chloride	39175

LIST L1

Leachate Monitoring Parameters	STORET
Xylene	81551
Zinc (total)	01092
m-Dichlorobenzene	34566
m+p-Xylene	61283
n-Butylbenzene	77342
n-Nitrosodimethylamine	34438
n-Nitrosodiphenylamine	34433
n-Nitrosodipropylamine	34428
n-Propylbenzene	77224
o-Chlorotoluene	77275
o-Dichlorobenzene	34536
o-Nitrophenol	34591
o-Xylene	77135
p-Chlorotoluene	77277
p-Cresol	77146
p-Dichlorobenzene	34571
p-Isopropyltoluene	77356
sec-Butylbenzene	77350

LIST L2

RCRA Parameters for Leachate and Condensate

RCRA PARAMETERS	STORET
Ignitability	
Flashpoint, Pensky-Martens Closed Cup (°F)	00497
Corrosivity	
pH (S.U.)	00400
Reactivity	
Reactive Cyanide	99040
Reactive Sulfide	99042

Toxicity

	Total conc. (ug/L)	TCLP conc. (mg/L)
Arsenic	1002	99012
Barium	1007	99014
Cadmium	1027	99016
Chromium	1034	99018
Lead	1051	99020
Mercury	71900	99022
Selenium	1147	99024
Silver	1077	99026
Endrin	39390	99028
Lindane	39782	99030
Methoxychlor	39480	99032
Toxaphene	39400	99034
2,4-D	39730	99036
2,4,5-TP Silvex	39760	99038
Benzene	34030	99128
Carbon tetrachloride	32102	99050
Chlordane	39350	99148
Chlorobenzene	34301	99096
Chloroform	32106	99149
o-Cresol	77152	99150
m-Cresol	77151	99151
p-Cresol	77146	99152
Cresol	79778	99153
1,4-Dichlorobenzene	34571	99154
1,2-Dichloroethane	34531	99155
1,1-Dichloroethylene	34501	99156
2,4-Dinitrotoluene	34611	99157
Heptachlor (and its epoxide)	39410 and 39420	99158
Hexachlorobenzene	39700	99159
Hexachloro-1,3-Butadiene	39702	99160
Hexachloroethane	34396	99161
Methyl Ethyl Ketone	81595	99060
Nitrobenzene	34447	99062
Pentachlorophenol	39032	99064
Pyridine	77045	99066

Toxicity (cont.)

	Total conc. (ug/L)	TCLP conc. (mg/L)
Tetrachloroethylene	34475	99068
Trichloroethylene	39180	99076
2,4,5-Trichlorophenol	77687	99078
2,4,6-Trichlorophenol	34621	99080
Vinyl Chloride	39175	99162

Notes for all leachate monitoring parameters:

a. Flashpoint shall be reported in degrees Fahrenheit. The parameters for reactivity and toxicity shall be reported in parts per million.

b. The permittee shall obtain metals and organics analysis. For List L2 parameters, either procedure may be utilized (i.e., total or TCLP), but any constituent whose total concentration exceeds the TCLP limit specified in 35 IAC 721.124 must be analyzed using the TCLP test and the results reported, unless an alternative test has been approved by the Illinois EPA. TCLP test methods must be in accordance with SW 846-1311.

c. The test methods for leachate monitoring shall be those approved in the USEPA's Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846), Third Edition or the equivalent thereof.

d. All parameters shall be determined from unfiltered samples.

e. The monitoring results should be reported in ug/L units unless otherwise indicated.

5. The schedule for leachate sample collection and submission of monitoring results for leachate monitoring points currently in-place and representative sample for L2 testing is as follows:

Sampling Period	Sampling List	Sampling Points	Report Due Date
April - May 2021	List L1	L303 and L305	July 15, 2021
	List L2	LREP	July 15, 2021
Oct-Nov 2021	List L1	L304 and L309	January 15, 2022
April-May 2022	List L1	L301, L307 and L308	July 15, 2022
	List L2	LREP	July 15, 2022
Oct-Nov 2022	List L1	L302 and L306	January 15, 2023
April-May 2023	List L1	L303 and L305	July 15, 2023

Sampling Period	Sampling List	Sampling Points	Report Due Date
	List L2	LREP	July 15, 2023
Oct-Nov 2023	List L1	L304 and L309	January 15, 2024
April-May 2024	List L1	L301, L307 and L308	July 15, 2024
	List L2	LREP	July 15, 2024
Oct-Nov 2024	List L1	L302 and L306	January 15, 2025
April-May 2025	List L1	L301, L307 and L308	July 15, 2025
	List L2	LREP	July 15, 2025
Oct-Nov 2025	List L1	L302 and L306	January 15, 2026

L1 - Leachate Monitoring Parameters
L2 - Annual RCRA Leachate Parameters
LREP - Representative Leachate Sample

6. The leachate monitoring data must be submitted in an electronic format. The information is to be submitted as fixed-width text files formatted as found on the Illinois EPA website.

7. The leachate storage system and associated piping shall be protected from freezing.

8. The following conditions shall apply when leachate is re-circulated through distribution trenches or by direct application to the working face of the landfill:

   a. Leachate distribution trenches shall be constructed by excavating an opening approximately 4 feet deep and 2 to 6 feet wide on a level portion or top deck of the active fill area. The trenches shall be spaced at least 50 feet apart and no more than 3 trenches shall receive leachate at one time;

   b. The leachate distribution trenches shall be covered at the end of each operating day with either daily cover or approved ADC. Trenches shall be backfilled after the active filling area has progressed to other portions of the landfill;

   c. The operator shall maintain an operating record that documents leachate re-circulation activities. The operating record shall include:

      i. The amount of leachate re-circulated on a daily basis;

      ii. The amount of waste disposed on a daily basis (gate cubic yards and tons).

iii. The location and approximate dimensions of the leachate trenches or the location of the active face where leachate was applied;

iv. How the leachate re-circulation area was closed at the end of the operating day; and

v. Documentation of leachate pop outs, odors and other associated problems that could be attributed to leachate re-circulation.

d. Leachate shall not be re-circulated during precipitation events or in volumes large enough to cause runoff or surface seeps;

e. The amount of leachate added shall not exceed the ability of the waste and cover soils to transmit leachate flow downward;

f. Leachate shall be evenly distributed beneath the surface of the re-circulation area;

g. Daily and intermediate cover shall slope away from the perimeter of the site to minimize surface discharges of leachate;

h. Leachate re-circulation shall be restricted to areas where the hydraulic conductivity of the leachate drainage layer is equal to or greater than 1 x 10^{-1} cm/sec;

i. Leachate which exhibits a hazardous characteristic in accordance with 35 IAC 721, Subpart C shall not be re-circulated; and

j. The maximum volume of leachate that can be re-circulated shall be calculated on a daily basis. The volume of leachate re-circulated shall not exceed 25 gallons per ton of waste disposed at the landfill on that particular day.

9. Re-circulation of leachate shall be limited to the active life of the landfill. Leachate shall not be re-circulated after the landfill stops accepting waste and during the post-closure care period.

10. The re-circulation of leachate through a series of forcemains and perforated pipes as described in Log No. 2006-398 is hereby approved. Operation of the above referenced leachate re-circulation system shall not be initiated until an acceptance report has been submitted to and approved by the Illinois EPA as a permit application pursuant to 35 IAC 811.505(d) and 813.203. (Modification No. 45)

11. Modification No. 3 (Log No. 1996-205) approved the leachate storage system consisting of two 21,000-gallon storage tanks near the southwest corner of the landfill. Modification No. 121 (Log No. 2024-094) approved the proposed

removal of the two 21,000-gallon leachate storage tanks near the southwest corner of the landfill. Documentation of the tank removal shall be submitted to the Illinois EPA as a permit application.

12. Modification No. 51 (Log No. 2008-162) approved the installation of an additional 20,000-gallon leachate storage tank in the northwest corner of Phases 1-4 of the landfill. Modification No. 116 (Log No. 2022-402) approved the installation of a 40,000-gallon leachate evaporator storage tank. Upon removal of the two 21,000-gallon leachate storage tanks as noted in Condition V.11, the leachate storage capacity is 60,000 gallons.

VI. GROUNDWATER MONITORING

1. The groundwater monitoring program must be capable of determining background groundwater quality hydraulically upgradient of and unaffected by the units and to detect, from all potential sources of discharge, any releases to groundwater within the facility. The Illinois EPA reserves the right to require installation of additional monitoring wells as may be necessary to satisfy the requirements of this permit.

2. The groundwater monitoring wells shall be constructed and maintained in accordance with the requirements of 35 IAC 811.318(d) and designs approved by the Illinois EPA.

3. Groundwater monitoring wells shall be maintained in the locations shown in Drawing No. C-29, of Log No. 1994-579 and screened in the hydrogeologic unit(s) identified as potential contaminant pathway(s) within the zone of attenuation. Installation of the proposed new monitoring wells listed in Condition VI.9 will be phased coincident with landfill development as described in the revised schedule contained in Attachment 2 of the December 9, 2002 Addendum to Log No. 2002-333. The estimated schedule dates (non-binding) are intended to provide for new downgradient well installation. Installation shall occur a minimum of one year before waste placement within respective phases for the purpose of background development.

   The location of groundwater monitoring well G1K4 has been revised, with the newly designated location shown in Figure 1 of Log No. 2015-088. The screened hydrogeologic unit remains unchanged.

4. Within 60 days of installation of any groundwater monitoring well, boring logs compiled by a qualified geologist, well development data and as-built diagrams shall be submitted to the Illinois EPA utilizing the "Well Completion Report" form found on the Illinois EPA website. For each well installed pursuant to this permit, one form must be completed.

5. Groundwater monitoring wells shall be easily visible, labeled with the Illinois EPA monitoring point designations and fitted with padlocked protective covers.

6. In the event that any well becomes consistently dry or unserviceable and therefore requires replacement, a replacement well shall be installed within 10 feet of the existing well. The Illinois EPA shall be notified in writing at least 15 days prior to the installation of all replacement wells. A well that is more than 10 feet from the existing well or which does not monitor the same geologic zone is considered to be a new well and must be approved via a permit application.

7. All borings, wells and piezometers not used as monitoring points shall be abandoned in accordance with the standards in 35 IAC 811.316, and the decommissioning and reporting procedures contained 77 IAC Part 920. In the event specific guidance is not found in 77 IAC Part 920, the Illinois EPA monitoring well plugging procedures can be found on the Illinois EPA website.

8. Groundwater sampling and analysis shall be performed in accordance with the requirements of 35 IAC 811.318(e) and the specific procedures and methods approved by the Illinois EPA. Low-flow and micro-purging sampling methods shall be used as described in Log No. 2005-099.

9. The following monitoring points are to be used in the groundwater detection monitoring program for this facility:

Upgradient Wells

Applicant Designation	Illinois EPA Designation
G122	G1C2
G123	G1C3
G142	G1E2
R201	R1K1
G202	G1K2
G203	G1K3
G204	G1K4
G221	G1M1
G222	G1M2
G223	G1M3
G237	G1N7
G208	G1K8
G214	G1L4
G219	G1L9
G226	G1M6
G228	G1M8
G232	G1N2

Wells Within Zone of Attenuation

Applicant Designation	Illinois EPA Designation
G205*	G1K5*
R205#	R1K5#
G206*	G1K6*
R206#	R1K6#
G207	G1K7
G209	G1K9
G210	G1L0
G211	G1L1
G212	G1L2
G213	G1L3
G215	G1L5
G216	G1L6
G217	G1L7
G218	G1L8
G220	G1M0
G224	G1M4
G225	G1M5
G227	G1M7
G229	G1M9
G230	G1N0
G231	G1N1
G233	G1N3
G234	G1N4
G235	G1N5
G236	G1N6

Note:
(*) – Represents Deleted Monitoring Point
(#) – Represents Added Monitoring Point

10. The monitoring program, approved by Permit No. 1999-291-LF, shall continue for a minimum period of 30 years after closure and shall not cease until the conditions described in 35 IAC 811.319(a)(1)(C) have been achieved. The operator shall collect samples from all of the monitoring points listed in Condition VI.9, test the samples for the parameters listed in Condition VI.12 (Lists G1 and G2), and report the results to the Illinois EPA, all in accordance with the schedule in Condition VI.18.

11. The applicable groundwater quality standards (AGQSs) and the maximum allowable predicted concentrations (MAPCs), as listed in Attachment 1, are subject to the following conditions:

a. Temperature and the field parameters involving depth or elevation are not considered groundwater constituents and do not need AGQSs.

b. For constituents which have not been detected in the groundwater, either the practical quantitation limit (PQL) or the method detection limit (MDL) shall be used as the AGQSs.

c. MAPCs are only applicable to those wells within the zone of attenuation. MAPCs values are not applicable to parameters within the zone of attenuation wells having an established intrawell value.

d. AGQSs are only applicable to upgradient/background and compliance boundary wells.

12. AGQS and MAPC values must be determined for all of the parameters which appear in either Lists G1 or G2 (not including groundwater depth or elevations). The AGQS values shall be calculated using a minimum of four consecutive quarters of groundwater monitoring data and shall be calculated at the 99% Upper Confidence Limit or as proposed in Section 11.2.2.1 of Log No. 1994-579.

LIST G

GROUNDWATER MONITORING PARAMETER	STORET
Elevation of Bottom of Well (ft. AMSL) (Annually without dedicated pumps; every 5 years with dedicated pumps or whenever the pump is pulled)	72020

LIST G1

FIELD PARAMETERS	STORET
pH (S.U.)	00400
Specific Conductance (umhos/cm)	00094
Temperature of Water Sample (°F)	00011
Depth to Water (ft. below land surface)	72019
Depth to Water (ft. below measuring point)	72109
Elevation of Measuring Point (Top of casing ft. AMSL)	72110
Elevation of Groundwater Surface (ft. AMSL)	71993

INDICATOR PARAMETERS	STORET
Ammonia (as Nitrogen; Dissolved) mg/L	00608
Arsenic (Dissolved) ug/L	01000
Boron (Dissolved) ug/L	01020
Cadmium (Dissolved) ug/L	01025
Chloride (Dissolved) mg/L	00941

INDICATOR PARAMETERS	STORET
Chromium (Dissolved) ug/L	01030
Cyanide (Total) mg/L	00720
Lead (Dissolved) ug/L	01049
Magnesium (Dissolved) mg/L	00925
Mercury (Dissolved) ug/L	71890
Nitrate (as Nitrogen, Dissolved) mg/L	00618
Sulfate (Dissolved) mg/L	00946
Total Dissolved Solids (TDS, 180°C; Dissolved) mg/L	70300
Zinc (Dissolved) ug/L	01090

NOTES:

i. All parameters with the "(Dissolved)" label to the right shall be determined using groundwater samples which have been filtered through a 0.45-micron filter. All other parameters shall be determined from unfiltered samples.

ii. MAPCs and AGQSs are given in ug/L except as otherwise noted. Also, the monitoring results should be reported in ug/L units unless otherwise indicated.

iii. List G1 and List G2 AGQS/MAPC values are included in Attachment 1.

LIST G2

PARAMETERS (ug/L)	STORET
Acetone	81552
Acrylonitrile	34215
Benzene	34030
Bromobenzene	81555
Bromochloromethane (chlorobromomethane)	77297
Bromodichloromethane	32101
Bromoform (Tribromomethane)	32104
n-Butylbenzene	77342
sec-Butylbenzene	77350
tert-Butylbenzene	77353
Carbon Disulfide	77041
Carbon Tetrachloride	32102
Chlorobenzene	34301
Chloroethane (Ethyl Chloride)	34311
Chloroform (Trichloromethane)	32106
o-Chlorotoluene	77275
p-Chlorotoluene	77277
Dibromochloromethane	32105
1,2-Dibromo-3-Chloropropane	38760

LIST G2 (cont.)

PARAMETERS (ug/L)	STORET
1,2-Dibromoethane	77651
1,2-Dichlorobenzene	34536
1,3-Dichlorobenzene	34566
1,4-Dichlorobenzene	34571
trans-1,4-Dichloro-2-Butene	73547
Dichlorodifluoromethane	34668
1,1-Dichloroethane	34496
1,2-Dichloroethane	34531
1,1-Dichloroethylene	34501
cis-1,2-Dichloroethylene	77093
trans-1,2-Dichloroethylene	34546
1,2-Dichloropropane	34541
1,3-Dichloropropane	77173
2,2-Dichloropropane	77170
1,1-Dichloropropene	77168
1,3-Dichloropropene	34561
cis-1,3-Dichloropropene	34704
trans-1,3-Dichloropropene	34699
Ethylbenzene	78113
Hexachlorobutadiene	39702
2-Hexanone (Methyl Butyl Ketone)	77103
Isopropylbenzene	77223
p-Isopropyltoluene	77356
Methyl Bromide (Bromomethane)	34413
Methyl Chloride (Chloromethane)	34418
Methylene Bromide (Dibromomethane)	77596
Dichloromethane	34423
Methyl Ethyl Ketone	81595
Methyl Iodide (Iodomethane)	77424
4-Methyl-2-Pentanone	78133
Naphthalene	34696
Oil (Hexane-Soluble) (mg/L)	00552
n-Propylbenzene	77224
Styrene	77128
1,1,1,2-Tetrachloroethane	77562
1,1,2,2-Tetrachloroethane	34516
Tetrachloroethylene	34475
Tetrahydrofuran	81607
Toluene	34010
Total Phenolics	32730
1,2,3-Trichlorobenzene	77613

LIST G2 (cont.)

PARAMETERS (ug/L)	STORET
1,2,4-Trichlorobenzene	34551
1,1,1-Trichloroethane	34506
1,1,2-Trichloroethane	34511
Trichloroethylene	39180
Trichlorofluoromethane	34488
1,2,3-Trichloropropane	77443
1,2,4-Trimethylbenzene	77222
1,3,5-Trimethylbenzene	77226
Vinyl Acetate	77057
Vinyl Chloride	39175
Xylenes	81551

NOTES:

i. All parameters with the "(Dissolved)" label to the right shall be determined using groundwater samples which have been filtered through a 0.45-micron filter. All other parameters shall be determined from unfiltered samples.

ii. MAPCs and AGQSs are given in ug/L except as otherwise noted. Also, the monitoring results should be reported in ug/L units unless otherwise indicated.

iii. List G1 and List G2 AGQS/MAPC values are included in Attachment 1.

13. Pursuant to 35 IAC 811.319(a)(4)(A), any of the following events shall constitute an observed increase only if the concentrations of the constituents monitored can be measured at or above the PQL:

a. The concentration of any constituent in List G1 of Condition VI.12 or Attachment 2 shows a progressive increase over eight consecutive quarters.

b. The concentration of any constituent monitored in accordance with List G1 or List G2 of Condition VI.12 exceeds the MAPCs at an established monitoring point within the zone of attenuation. MAPC values are not applicable to parameters within the zone of attenuation wells having an established intrawell value.

c. The concentration of any organic constituent in List G2, monitored in accordance with Condition VI.12 and Attachment 2 exceeds the preceding measured concentration at any established point.

d. The concentration of any constituent monitored at or beyond the edge of the zone of attenuation (compliance boundary) exceeds its AGQSs, or pursuant to 35 IAC 811.320(d) any constituent monitored at an upgradient well, exceeds its AGQSs. However, the comparison to AGQSs concentrations will not be required for wells G1E2, G1C3, G1C2, G1M1, G1M2 and G1M3 in routine monitoring.

e. The concentration of any constituent monitored in accordance with List G1 or List G2 of Attachment 2 exceeds the intrawell AGQS value at an established monitoring point. Intrawell values replace MAPC values.

The comparison of groundwater concentrations to values b, d, and e above to determine an observed increase will be based on exceedences of both interwell and intrawell AGQS values, if there is an intrawell value established for the parameter, listed in Attachment 2.

14. For each round of sampling described in Condition VI.10, the operator must determine if an observed increase has occurred within 90 days of the initial sampling date. If an observed increase is identified, the operator must also notify the Illinois EPA in writing and follow the confirmation procedures of 35 IAC 811.319(a)(4)(B). Furthermore, the operator must complete the confirmation procedures within 180 days of the initial sampling event.

15. Upon confirmation of a monitored increase and within 180 days of the initial sampling date, the operator shall submit a permit application to demonstrate an alternate source per 35 IAC 811.319(a)(4)(B)(ii) or begin an assessment monitoring program in order to determine whether the solid waste disposal facility is the source of the contamination and to provide information needed to carry out a groundwater impact assessment in accordance with 35 IAC 811.319(b).

16. In the event that an alternative source demonstration is denied, pursuant to 35 IAC 813.105, the operator must commence sampling for the constituents listed in 35 IAC 811.319(b)(5), and submit an assessment monitoring plan as a permit application, both within 30 days after the dated notification of Illinois EPA denial. The operator must sample the well or wells that exhibited the confirmed increase.

17. The statistical evaluation of groundwater quality shall commence with the first quarter 2004 sampling event.

18. The schedule for sample collection and submission of quarterly monitoring results is as follows:

Sampling Quarter	Sampling Due	Report Due Date
Jan-Feb (first)	List G1	April 15
April-May (second)	List G, G1, and G2	July 15
July-Aug (third)	List G1	October 15
Oct-Nov (fourth)	List G1 and G2	January 15

G – Well Depth
G1 – Routine Groundwater Parameters
G2 – Semi-annual Groundwater Parameters

19. Elevation of stick-up is to be surveyed and reported to the Illinois EPA:

    a. When the well is installed (with the as-built diagrams),

    b. Every two years thereafter, or

    c. Whenever there is reason to believe that the elevation has changed.

20. Annually, the operator shall prepare an evaluation of the groundwater flow direction and the hydraulic gradients at the facility using the groundwater surface elevations (STORET #71993) determined for each monitoring event. The facility shall submit a completed "Solid Waste Landfill Groundwater, Leachate, Facility and Gas Reporting Form" (LPC-591) as a cover sheet along with the potentiometric surface maps and groundwater elevation data in tabular format. The assessment shall be submitted to the Illinois EPA by July 15.

21. All monitoring points shall be maintained in accordance with the approved permit such that the required samples and measurements may be obtained.

22. Information required by Conditions VI.10 and VI.18 must be submitted in an electronic format. The facility shall submit a completed "Solid Waste Landfill Groundwater, Leachate, Facility and Gas Reporting Form" (LPC-591) as a cover sheet along with the information submitted as fixed-width text files format. Additional guidance regarding the submittal of the information in an electronic format can be found at the Illinois EPA website.

23. Should a demonstration of a confirmed groundwater exceedance due to the facility be made, the proposed design plan change (groundwater extraction system) as proposed in Log No. 2001-229 and all addendum, shall be implemented within 30 days after the assessment monitoring and report, approved by the Illinois EPA, determines that groundwater exceedences are due to the facility.

24. Should the proposed design plan change as required in Permit Condition VI.23 be implemented, the operator shall prepare an annual assessment of the effectiveness of the system. This assessment shall be submitted on or before July 15.

25. Background concentrations which exhibit a statistically significant change shall be adjusted and updated in accordance with 35 IAC 811.320(d)(2) and submitted to the Illinois EPA as a permit application.

VII. LANDFILL GAS MANAGEMENT/MONITORING

1. The landfill gas monitoring plan described in Log No. 1994-579 is approved. Monitoring devices shall be put into service in accordance with the following schedule:

   a. The gas monitoring probes within the waste boundary shall be installed and put into service within 90 days after final cover has been applied to the various areas where they are located.

   b. Monitoring devices outside the waste boundary shall be put into service when waste has been disposed in the landfill near that monitoring location. Every application for operating authorization of an additional phase shall include documentation for installation of associated gas probes listed in the table titled "Gas probe installation schedule" submitted in the addendum dated July 18, 2011 of Log No. 2011-080.

   c. Monitoring devices within buildings shall be put into service when waste disposal begins and the building has been constructed.

   d. Ambient air monitoring devices shall be put into service downwind of the disposal unit after initial receipt of waste.

   e. Documentation that all the gas monitoring probes outside the waste boundary and the methane monitoring devices within the on-site buildings have been installed shall be included with the permit application requesting authorization to place waste upon new liner.

2. The gas monitoring probes both inside and outside the waste boundary shall be monitored for the following parameters:

   a. Methane;
   b. Pressure;
   c. Nitrogen*;
   d. Oxygen; and
   e. Carbon Dioxide

   *NOTE: For routine monitoring, Nitrogen may be reported as the net remaining volume fraction after the other measured constituents have been accounted for.

3. The ambient air monitoring devices described in Log No. 1994-579, shall be used to test the air downwind of the landfill for methane.

4. All buildings within the facility boundaries shall be monitored continuously for methane.

5. Gas monitoring shall begin immediately after the first approved permit application authorizing operation of the new unit is issued, shall continue for at least 30 years after closure and may be discontinued only after the conditions described in 35 IAC 811.310(c)(4) have been achieved and approved by the Illinois EPA.

6. Sampling and testing of the gas monitoring probes and ambient air monitoring shall be performed at least annually (except for gas probes GP-2 and GP-3) throughout the new unit's operating life. Gas probes GP-2 and GP-3 shall be monitored quarterly.

7. Pursuant to 35 IAC 811.311, in the event of any of the occurrences listed below, the operator must take the steps described in the last two paragraphs of this condition to ensure the protection of human health:

   a. A methane concentration greater than 50 percent of the lower explosive limit in air is detected in any of the below ground monitoring devices outside the waste boundary;

   b. A methane concentration greater than 50 percent of the lower explosive limit in air is detected during ambient air monitoring;

   c. A methane concentration greater than 25 percent of the lower explosive limit in air is detected in any building on or near the facility; or

   d. Malodors attributed to the unit are detected beyond the property boundary.

   First, within two business days of the occurrence, the operator must notify the Illinois EPA in writing using the form LPC-591, pursuant to 35 IAC 811.311(b)(1). The notification must identify the location of the occurrence and describe its nature (quantitatively if possible). If the gas exceedance is corrected within 30 days, a follow-up LPC-591 form may be submitted to the Illinois EPA describing the correction and providing confirmation test results.

   Second, if a follow-up LPC-591 is not submitted, then within 180 days of the occurrence, the operator must submit to the Illinois EPA a permit application that either: 1) proposes a gas collection/management system or modifications to the existing gas collection/management system, or 2) demonstrates that the facility is not the cause of the occurrence.

8. The gas probes shall be inspected at least monthly for structural integrity and proper operation.

9. The results from gas monitoring for each year shall be submitted to the Illinois EPA in the annual report required by 35 IAC 813.501.

10. At the end of the post-closure care period, the gas monitoring probes shall be decommissioned. The probes outside the waste boundary shall be decommissioned using the method described in the Illinois EPA monitoring well plugging procedure guidance on the the Illinois EPA website. In decommissioning the probes within the waste boundaries, the pipes shall be cut off at least two feet below the low permeability layer and plugged. Then the low permeability layer, the protective layer and the vegetation shall be restored in the excavated areas.

11. Modification Nos. 23, 27, 40, 50, 53, 55, 58, 65, 72, 83, 96, 101, and 121 approved construction documentation for a portion of the landfill gas management system consisting of the following:

- 63 gas extraction wells and associated collector piping;
- 36 temporary Rock Columns and associated horizontal collector piping;
- Condensate knockout and pumping station;
- Blower/flare outside the northeast corner of Phase 4; and
- Blower/flare south of Phase 5.

The permittee shall operate the gas collection system in accordance with the requirements of Condition Nos. VII.12 and VII.13.

12. Upon completion of construction of each subsequent phase of the gas management system, the operator:

a. May temporarily operate the subject phase of the landfill gas management system for a period not exceeding 120 days as a part of a "shakedown period"; and

b. Shall submit an acceptance report to the Illinois EPA pursuant to the requirements of 35 IAC 811.505(d) and 813.203. The acceptance report shall be submitted as a permit application and shall demonstrate that the construction of the subject phase of the landfill gas management system has been completed in accordance with the approved designs. The permit application shall be submitted within 30 days of the commencement of the temporary operation referenced in item (a) above.

13. The temporary operation of the gas management system referenced in Condition VII.12 of this permit does not relieve the permittee to file reports and/or obtain applicable permit(s) from the Illinois EPA's Bureau of Air. Furthermore, the operation of the gas management system shall not violate any conditions included in the permit(s) issued by the Illinois EPA's Bureau of Air.

VIII. CLOSURE/POST-CLOSURE CARE

1. Per 35 IAC 813.401(a), the landfill operator shall send a notice of closure to the Illinois EPA within 30 days after the date of the final volume of waste is received. The facility shall be closed in accordance with the closure plan in Log No. 1994-579. Upon completion of closure activities, the operator shall notify the Illinois EPA that the site has been closed in accordance with the approved closure plan utilizing the Illinois EPA's "Affidavit for Certification of Closure of Solid Waste Landfills Permitted under 35 Ill. Adm. Code Parts 813 and 814" form.

2. Inspections of the closed landfill shall be conducted in accordance with the approved post-closure care plan. Records of field investigations, inspections, sampling and corrective action taken are to be maintained at the site and made available to Illinois EPA personnel or their designee through an Intergovernmental Agreement. During the post-closure care period, these records are to be maintained at the office of the site operator.

3. If necessary, the soil over the entire planting area shall be amended with lime, fertilizer and/or organic matter. On sideslopes, mulch or some other form of stabilizing material is to be provided to hold seed in place and conserve moisture.

4. The minimum post-closure care period for this MSWLF is 30 years. When the post-closure care period has been completed, the operator shall notify the Illinois EPA utilizing the Illinois EPA's "Affidavit for Certification of Post-Closure Care for Non-Hazardous Waste Facilities" form.

5. The operator shall provide financial assurance for closure and post-closure care pursuant to 35 IAC 811.700(b). The receipt of waste in the new unit shall not be approved until adequate documentation of financial assurance in accordance with 35 IAC 811.700(b) has been provided.

   However, financial assurance for closure and post-closure care shall be required only for those areas for which authorization to operate has been obtained or is being requested.

6. The operator shall increase the total amount of financial assurance so as to equal the current cost estimate within 90 days of an increase in the current cost estimate in accordance with 35 IAC 811.701(b).

7. The total cost estimate for closure and post-closure care for this facility approved by Modification No. 120 to Permit No. 1994-579-LF is $14,467,988. The total cost estimates consist of $7,094,668 in closure costs; $7,299,540 in post-closure care costs; and $73,780 in decommissioning costs. The permittee shall maintain financial assurance in this amount pursuant to 35 IAC 811.701(a).

8. The owner or operator shall adjust the cost estimates for closure, post-closure, and corrective action for inflation on an annual basis during the following time periods:

   a. The active life of the unit for the closure cost;

   b. The active life and post-closure care period for the post-closure cost; or

   c. Until any corrective action program is completed in accordance with 35 IAC 811.326, for the cost of corrective action.

   Each year, no later than June 1 of that year, the owner or operator shall submit a permit application that provides an update to the cost estimate or a certification that there are no changes to the current cost estimates.

IX. REPORTING REQUIREMENTS

1. The annual certification shall be submitted to the Illinois EPA during operation and for the entire post-closure monitoring period, pursuant to 35 IAC 813.501. The certification shall be signed by the operator or duly authorized agent, shall be filed each year by May 1 the following year and shall state:

   a. All records required to be submitted to the Illinois EPA pursuant to 35 IAC 858.207 and 858.308 have been timely and accurately submitted; and,

   b. All applicable fees required by the Act have been paid in full.

2. The annual report for each calendar year shall be submitted to the Illinois EPA by May 1 of the following year pursuant to 35 IAC 813.504. The annual report shall include:

   a. Information relating to monitoring data from the leachate collection system, groundwater monitoring network, gas monitoring system and any other monitoring data specified in this permit, including:

      1) Summary of monitoring data for the calendar year;

      2) Dates of submittal of comprehensive monitoring data to the Illinois EPA during the calendar year;

      3) Statistical summaries and analysis of trends;

      4) Changes to the monitoring program; and

      5) Discussion of error analysis, detection limits and observed trends.

b. Proposed activities:

1) Amount of waste expected in the next year;

2) Structures to be built within the next year; and

3) New monitoring stations to be installed within the next year.

c. Any modification or significant modification affecting operation of the facility; and

d. The signature of the operator or duly authorized agent as specified in 35 IAC 815.102.

3. The permittee shall submit a completed "Solid Waste Landfill Groundwater, Leachate, Facility and Gas Reporting Form" (LPC-591) as a cover sheet for any notices or reports required by the facility's permit for identification purposes. One copy of the LPC-591 form must accompany each report; however, except for electronically formatted data, the permittee must submit one original and a minimum of two copies of each report submitted to the Illinois EPA. The form is not to be used for permit applications.

4. All certifications, logs, reports, plan sheets, notices, and groundwater and leachate monitoring data, required to be submitted to the Illinois EPA by the permittee, shall be mailed to the following address:

Illinois Environmental Protection Agency
Permit Section
Bureau of Land -- #33
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Except for electronic groundwater and leachate monitoring data, the operator shall provide the Illinois EPA with the original and two copies of all certifications, logs, reports and plan sheets required by this permit.

The applicant may appeal this final decision to the Board pursuant to Section 40 of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the applicant and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the request for an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276
217/782-5544

For information regarding the filing of an appeal, please contact:

Illinois Pollution Control Board, Clerk
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
312/814-3620

Work required by this permit, the application, or the regulations may also be subject to other laws governing professional services, such as the Illinois Professional Land Surveyor Act of 1989, the Professional Engineering Practice Act of 1989, the Professional Geologist Licensing Act, and the Structural Engineering Licensing Act of 1989. This permit does not relieve anyone from compliance with these laws and the regulations adopted pursuant to these laws. All work that falls within the scope and definitions of these laws must be performed in compliance with them. The Illinois EPA may refer any discovered violation of these laws to the appropriate regulating authority.

Sincerely,

Jacqueline M. Cooperider, P.E.
Permit Section Manager
Bureau of Land

JMC:PHL\ MNP 1950350014-811LF-SM121-2024094 -Approval.docx

Attachments: Standard Conditions
Attachment 1 – Facility AGQS Values
Attachment 2 – Intrawell AGQS Values

cc: Brian J. Horvath, P.E., IngenAE, LLC

STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY BUREAU OF LAND

August 22, 2001

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

These standard conditions shall apply to all permits which the Illinois EPA issues for construction or development projects which require permits under the Bureau of Land. Special conditions may also be imposed in addition to these standard conditions.

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire two years after date of issuance unless construction or development on this project has started on or prior to that date.

2. The construction or development of facilities covered by this permit shall be done in compliance with applicable provisions of Federal laws and regulations, the Illinois Environmental Protection Act, and Rules and Regulations adopted by the Board.

3. There shall be no deviations from the approved plans and specifications unless a written request for modification of the project, along with plans and specifications as required, shall have been submitted to the Illinois EPA and a supplemental written permit issued.

4. The permittee shall allow any agent duly authorized by the Illinois EPA upon the presentation of credentials:

    a. to enter at reasonable times the permittee's premises where actual or potential effluent, emissions or noise sources are located or where any activity is to be conducted pursuant to this permit.

    b. to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit.

    c. to inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit.

    d. to obtain and remove at reasonable times samples of any discharge or emission of pollutants.

e. to enter at reasonable times and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.

5. The issuance of this permit:

   a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located;

   b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities;

   c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations;

   d. does not take into consideration or attest to the structural stability of any units or parts of the project;

   e. in no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.

6. Unless a joint construction/operation permit has been issued, a permit for operating shall be obtained from the Illinois EPA before the facility or equipment covered by this permit is placed into operation.

7. These standard conditions shall prevail unless modified by special conditions.

8. The Illinois EPA may file a complaint with the Board for modification, suspension or revocation of a permit:

   a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed; or

   b. upon finding that any standard conditions have been violated; or

   c. upon any violation of the Environmental Protection Act or any Rule or Regulation effective thereunder as a result of the construction or development authorized by this permit.

1950350014 – Prairie Hill RDF
Permit No. 1994-579-LF
Log No. 2024-094

Attachment 1 – Facility AGQS values

FIELD PARAMETERS	STORET	MAPC	AGQS
pH (S.U.)	00400		
Specific Conductance (umhos/cm)	00094		
Temperature of Water Sample (°F)	00011	----	----
Depth to Water (ft. below land surface)	72019	----	----
Depth to Water (ft. below measuring point)	72109	----	----
Elevation of Measuring Point (Top of casing ft. AMSL)	72110	----	----
Elevation of Groundwater Surface (ft. AMSL)	71993	----	----
Elevation of Bottom of Well (ft. AMSL)	72020	----	----
INDICATOR PARAMETERS	**STORET**	**MAPC**	**AGQS**
Ammonia (as Nitrogen) (Dissolved mg/L)	00608	1.886	1.886
Arsenic (Dissolved ug/L)	01000	23	23
Boron (Dissolved) ug/L	01020	107.6	107.6
Cadmium (Dissolved) ug/L	01025	40	40
Chloride (Dissolved, mg/L)	00941	261.7	261.7
Chromium (Dissolved, ug/L)	01030	4	4
Cyanide (mg/L) (Total)	00720	0.033	0.033
Lead (Dissolved) ug/L	01049	5.8	5.8
Iron (Dissolved) ug/L	01046	5200	5200
Magnesium (Dissolved, mg/L)	00925	110.3	110.3
Manganese (Dissolved) ug/L	01056	562	562
Mercury (Dissolved, ug/L)	71900	0.2	0.2
Nitrate (as N) (Dissolved) mg/L	00618	25.7	25.7
Phenol (Total) ug/L	32730	89	89
Sulfate (Dissolved, mg/L)	00946	85.16	85.16
Total Dissolved Solids mg/L	70300	800.539	800.539
Zinc (Dissolved) ug/L	01090	20	20
VOLATILE ORGANIC PARAMETERS	**STORET**	**MAPC**	**AGQS**
Acetone	81552	100	100
Benzene	34030	5	5
Chlorobenzene	34301	5	5
Chloroethane	34311	5	5

Attachment 1

VOLATILE ORGANIC PARAMETERS	STORET	MAPC	AGQS
Chloroform	32106	5	5
Chloromethane	34418	5	5
p-Dichlorobenzene	34571	5	5
Dichlorodifluoromethane	34668	5	5
1,1-Dichloroethane	34496	5	5
1,2-Dichloroethane	34531	5	5
1,1-Dichloroethene	34501	5	5
cis-1,2-Dichloroethene	77093	5	5
trans-1,2-Dichloroethene	34546	5	5
1,2-Dichloropropane	34541	5	5
Methylene Chloride	34423	5	5
Tetrachloroethene	34475	5	5
Toluene	34010	5	5
1,1,1-Trichloroethane	34506	5	5
Trichloroethene	39180	5	5
Vinyl Chloride	39175	5	5
Xylenes	81551	5	5

PARAMETERS (ug/L)	STORET	MAPC	AGQS
UNFILTERED (totals)			
Acenaphthene	34205	5	5
Anthracene	34220	5	5
Acetone	81552	100	100
Acrolein	34210	100	100
Acrylonitrile	34215	200	200
Alachlor	77825	0.1	0.1
Aldicarb	39053	0.5	0.5
Aldrin	39330	0.05	0.05
alpha-BHC	39337	0.05	0.05
Aluminum	01105	1942000	1942000
Ammonia (as N) (mg/L)	00610	1.886	1.886
Antimony	01097	30	30
Arsenic	01002	63	63
Atrazine	39033	2	2
alpha-BHC	39337	0.053	0.053
Bacteria (Fecal Coliform) (col/100ml)	31616	20	20
Barium	01007	4300	4300
Benzene	34030	5	5

Attachment 1

PARAMETERS (ug/L)	STORET	MAPC	AGQS
UNFILTERED (totals)			
Benzo(a)anthracene	34526	0.1	0.1
Benzo(a)Pyrene	34247	0.2	0.2
Benzo(b)fluoranthene	34230	0.10	0.10
Benzo(k)fluoranthene	34242	0.10	0.10
Benzoic Acid	77247	150	150
Beryllium	01012	7.2	7.2
BOD (mg/L)	00310	6	6
Boron	01022	200	200
Bromobenzene	81555	5	5
Bromochloromethane (chlorobromomethane)	77297	5	5
Bromodichloromethane	32101	5	5
Bromoform (Tribromomethane)	32104	5	5
Bromomethane (Methyl Bromide)	34413	5	5
Butanol	45265	40	40
n-Butylbenzene	77342	5	5
sec-Butylbenzene	77350	5	5
tert-Butylbenzene	77353	5	5
Butyl Benzyl Phthalate	34292	10	10
Cadmium	01027	32	32
Calcium (mg/L)	00916	2084.418	2084.418
Carbofuran	81405	0.9	0.9
Carbon Disulfide	77041	100	100
Carbon Tetrachloride	32102	5	5
Chemical Oxygen Demand (COD) (mg/L)	00335	2636	2636
Chlordane	39350	0.1	0.1
Chloride (mg/L)	00940	261.712	261.712
Chlorobenzene	34301	5	5
Chloroethane (Ethyl Chloride)	34311	5	5
Chloroform (Trichloromethane)	32106	5	5
Chloromethane (Methyl Chloride)	34418	5	5
bis(chloromethyl)Ether	34268	2000	2000
o-Chlorotoluene	38680	5	5
p-Chlorotoluene	77277	5	5
Chromium	01034	680	680
Chrysene	34320	5	5
Chlorodibromomethane (Dibromochloromethane)	32105	5	5
Cobalt	01037	370	370
Copper	01042	880	880
o-Cresol	77152	10	10
m/p-Cresol	77146	10	10

Attachment 1

PARAMETERS (ug/L)	STORET	MAPC	AGQS
UNFILTERED (totals)			
Cyanide (mg/L)	00720	33	33
Dalapon	38432	1	1
DDT	39300	0.1	0.1
Dibenz(a,h)anthracene	34556	0.1	0.1
Dibromomethane (Methylene Bromide)	77596	5	5
Dicamba	82052	5	5
m-Dichlorobenzene (1,3 Dichlorobenzene)	34566	5	5
o-Dichlorobenzene (1,2 Dichlorobenzene)	34536	5	5
p-Dichlorobenzene (1,4 Dichlorobenzene)	34571	5	5
Dichlorodifluoromethane	34668	5	5
Dichloromethane (Methylene Chloride)	34423	5	5
Dieldrin	39380	0.05	0.05
Diethyl Phthalate	34336	10	10
Dimethyl Phthalate	34341	10	10
Di-N-Butyl Phthalate	39110	10	10
Dinoseb (DNBP)	81287	1	1
Endothall	38926	10	10
Endrin	39390	0.1	0.1
bis(2-Ethylhexyl)Phthalate	39100	10	10
Ethylbenzene	78113	5	5
Ethylene Dibromide (EDB)(1,2-Dibromo ethane)	77651	5	5
Fluoranthene	34376	5	5
Fluorene	34381	5	5
Fluoride (mg/L)	00951	760	760
Heptachlor	39410	0.05	0.05
Heptachlor Epoxide	39420	1	1
Hexachlorobutadiene	39702	5	5
Indeno(1,2,3-cd)pyrene	34403	0.1	0.1
Iodomethane (Methyl Iodide)	77424	5	5
Iron	01045	5780496	5780496
Isophrone	34408	10	10
Isopropylbenzene	77223	5	5
p-Isopropyltoluene	77356	5	5
Lead	01051	500	500
Lindane	39782	0.1	0.1
Magnesium (mg/L)	00927	1143.953	1143.953
Manganese	01055	48267	48267
MCPP	38491	5	5
Mercury	71900	3.5	3.5
Methoxyclor	39480	2	2

Attachment 1

PARAMETERS (ug/L)	STORET	MAPC	AGQS
UNFILTERED (totals)			
Molybdenum	01129	10	10
MTBE	46491	3.4	3.4
Naphthalene	34696	10	10
Nickel	01067	870	870
Nitrate-Nitrogen (mg/L)	00620	25.7	25.7
Oil(Hexane-Soluble or Equivalent) (mg/L)	00552	17	17
Parathion	39540	10	10
Pentachlorophenol	39032	50	50
Perchlorate	61209	0.05	0.05
pH (S.U.)	00400		
Phenols	32730	89	89
Phosphorous (mg/L)	00665	1.1	1.1
Picloram	39720	1.0	1.0
Polychlorinated Biphenyls	39516	50	50
Potassium (mg/L)	00937	25.998	25.998
n-Propylbenzene	77224	5	5
Pyrene	34469	5	5
Radium-226 (pCi/L)	09501	0.534	0.534
Radium-228 (pCi/L)	11501	0.636	0.636
Selenium	01147	10	10
Silver	01077	70	70
Simazine	39055	4	4
Sodium (mg/L)	00929	47.572	47.572
Styrene	77128	5	5
Sulfate (mg/L)	00945	85.16	85.16
TOC (mg/L)	00680	93.100	93.100
Tetrachloroethylene (Perchloroethylene)	34475	5	5
Tetrahydrofuran	81607	10	10
Thallium	01059	1000	1000
Toluene	34010	5	5
Toxaphene	39400	2	2
Trichloroethylene (Trichloroethene)	39180	5	5
Trichlorofluoromethane	34488	5	5
Vanadium	01087	80	80
Vinyl Chloride	39175	5	5
Vinyl Acetate	77057	50	50
Xylenes	81551	5	5
o-Xylene	77135	5	5
m/p-Xylene	85795	5	5
Zinc	01092	6611	6611

Attachment 1

PARAMETERS (ug/L)	STORET	MAPC	AGQS
UNFILTERED (totals)			
1,1,1,2-Tetrachloroethane	77562	5	5
1,1,1-Trichloroethane	34506	5	5
1,1,2,2-Tetrachloroethane	34516	5	5
1,1,2-Trichloroethane (Methylchloroform)	34511	5	5
1,1-Dichloroethane	34496	5	5
1,1-Dichloroethylene	34501	5	5
1,1-Dichloropropene	77168	5	5
1,2,3-Trichlorobenzene	77613	10	10
1,2,3-Trichloropropane	77443	15	15
1,2,4-Trichlorobenzene	34551	10	10
1,2,4-Trimethylbenzene	77222	10	10
1,2-Dibromo-3-Chloropropane (DBCP)	38760	25	25
cis-1,2-Dichloroethylene	77093	5	5
trans-1,2-Dichloroethylene	34546	5	5
1,2-Dichloroethane	34531	5	5
1,2-Dichloropropane (Propylene Dichloride)	34541	5	5
1,3,5-Trimethylbenzene	77226	10	10
1,3-Dichloropropane	77173	5	5
1,3-Dichloropropene	34561	10	10
cis-1,3-Dichloropropene	34704	10	10
trans-1,3-Dichloropropene	34699	10	10
trans-1,4-Dichloro-2-Butene	73547	100	100
1,4-Dioxane	81582	520	520
2,2-Dichloropropane	77170	15	15
2,4,5-TP (Silvex)	39760	2	2
2,4-Dichlorophenoxyacetic Acid (2,4-D)	39730	10	10
2-Butanone(Methyl Ethyl Ketone)	81595	100	100
2-Hexanone (Methyl Butyl Ketone)	77103	50	50
2-Methylnaphthalene	77152	5	5
2-Methylphenol	77152	5	5
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	78133	100	100

NOTE: AGQS and MAPC values have been calculated using a minimum of four consecutive quarters of groundwater monitoring data and calculated at the 99% Upper Confidence Limit.

Attachment 2:
Intrawell AGQS values

1950350014 - Prairie Hill RDF
Permit No. 1994-579-LF
Log No. 2024-094

Inorganics	Units	Site AGQS	G1C2 AGQS	G1C3 AGQS	G1E2 AGQS	G1K2 AGQS	G1K3 AGQS	G1K8 AGQS	G1K9 AGQS	G1L0 AGQS	G1L1 AGQS	G1L2 AGQS	G1L3 AGQS	G1L4 AGQS
Dissolved														
Ammonia	mg/L	1.886	1.9	1.886	1.886	5.83		9.45				3.82		
Arsenic	ug/L	23	23	23	23		32.66	133.1			103			
BOD	mg/L											16.2	21.3	
Boron	ug/L	50	94	95.75	50			89.5						
Cadmium	ug/L	40	40	40	40									
Chloride	mg/L	261.7	261.7	261.7	261.7			29.45	3.82					
Cyanide	mg/L	0.033	0.033	0.033	0.033									
Iron	ug/L	5200	11460	10800	6797		30730			6713		8200		
Lead	ug/L	5.8	5.8	5.8	5.8									
Magnesium	mg/L							494						
Manganese	ug/L	562	562	562	562									
Nitrate	mg/L	25.7	25.7	25.7	25.7									
Phenols	mg/L	89	89	89	89									
Sulfate	mg/L	85.16	113	85.16	85.16		165.6	2196						
TDS	mg/L	800.539	800.539	800.539	800.539			5846						406
Zinc	ug/L	20	20	20	20									
Totals														
Ammonia	mg/L											3.49		
VOCs														
1,1,1-Trichloroethane	ug/L	5	5	5	5									
1,1,-Dichloroethane	ug/L	5	5	13	16									
1,1-Dichloroethene	ug/L	5	5	5	5									
1,2-Dichloroethane	ug/L	5	5	5	5									
1,2-Dichloropropane	ug/L	5	5	5	5									
1,4-Dichlorobenzene	ug/L	5	5	5	5									
Acetone	ug/L	100	100	100	100									
Benzene	ug/L	5	5	5	5									
Chlorobenzene	ug/L	5	5	5	5									
Chloroethane	ug/L	5	5	5	5									
Chloroform	ug/L	5	5	5	5									
Chloromethane	ug/L	5	5	5	5									
CIS-1,2-Dichloroethene	ug/L	5	5	5	5									
Dichlorodifluoromethane	ug/L	5	5	5	5									
Methylene Chloride	ug/L	5	5	5	5									
Tetrachloroethene	ug/L	5	5	5	5									
Toluene	ug/L	5	5	5	5									
Trans-1,2-Dichloroethene	ug/L	5	5	5	5									
Trichloroethene	ug/L	5	5	5	5									
Vinyl Chloride	ug/L	5	5	5	5									
Xylene	ug/L	5	5	5	5									

Attachment 2:
Intrawell AGQS values

Inorganics	Units	Site AGQS	G1L5 AGQS	G1L6 AGQS	G1L9 AGQS	G1M0 AGQS	G1M1 AGQS	G1M2 AGQS	G1M3 AGQS	G1M6 AGQS	G1M7 AGQS	G1M8 AGQS	G1M9 AGQS	G1N7 AGQS
Dissolved														
Ammonia	mg/L	1.886					1.886	2.76	1.886					
Arsenic	ug/L	23					23	23	23					70.6
BOD	mg/L						19.3	9.4						
Boron	ug/L	50					71	54.2	50					
Cadmium	ug/L	40					40	40	40					
Chloride	mg/L	261.7					261.7	261.7	261.7				1016.3	
Cyanide	mg/L	0.033					0.033	0.033	0.033					
Iron	ug/L	5200	23,505		6733	12183	10800	9537	5200					
Lead	ug/L	5.8					5.8	5.8	5.8					
Magnesium	mg/L												300	
Manganese	ug/L	562					562	562	562					
Nitrate	mg/L	25.7					25.7	25.7	25.7					
Phenols	mg/L	89					89	89	89					
Sulfate	mg/L	85.16		104.83			85.16	85.16	85.16	21		187.5	385.5	
TDS	mg/L	800.539					1034	800.539	800.539		1106		2306.1	
Zinc	ug/L	20					20	20	20					
Totals														
Ammonia	mg/L													
VOCs														
1,1,1-Trichloroethane	ug/L	5					5	5	5					
1,1,-Dichloroethane	ug/L	5				45.4	19	5	5	21				
1,1-Dichloroethene	ug/L	5					5	5	5					
1,2-Dichloroethane	ug/L	5					5	5	5					
1,2-Dichloropropane	ug/L	5					5	5	5					
1,4-Dichlorobenzene	ug/L	5					5	5	5					
Acetone	ug/L	100					100	100	100					
Benzene	ug/L	5					5	5	5					
Chlorobenzene	ug/L	5					5	5	5					
Chloroethane	ug/L	5				71	250	5	5					
Chloroform	ug/L	5					5	5	5					
Chloromethane	ug/L	5					5	5	5					
CIS-1,2-Dichloroethene	ug/L	5					5	5	5	11				
Dichlorodifluoromethane	ug/L	5					5	5	5					
Methylene Chloride	ug/L	5					5	5	5					
Tetrachloroethene	ug/L	5					5	5	5					
Toluene	ug/L	5					5	5	5					
Trans-1,2-Dichloroethene	ug/L	5					5	5	5					
Trichloroethene	ug/L	5					5	5	5					
Vinyl Chloride	ug/L	5					5	5	5					
Xylene	ug/L	5					5	5	5					

JMC:PHL/1950350014-811LF-SM121-2024-094-Att2 6-Aug

EXHIBIT F

Prairie Hill Landfill
18762 Lincoln Road
Morrison, IL 61270

January 12, 2024

Ms. Jacki Cooperider, P.E.
Manager, Permit Section
IEPA - Bureau of Land
1021 North Grand Ave. East
Springfield, Illinois 62702

RE: **Prairie Hill RDF**
IEPA #1950350014 - Whiteside County, Illinois
Permit 1994-579-LF
Application to Accept Offsite Leachate for Disposal in Leachate Evaporator

Dear Ms. Cooperider:

Submitted herein is an application for permit to allow the acceptance of offsite leachate for disposal in Prairie Hill Landfill's leachate evaporator. WM would like to utilize its excess capacity in the leachate evaporator as an alternative leachate disposal option for Peoria City-County Landfill No. 2 (PCC #2), a WM operated facility, located at 11501 West Cottonwood Road, Brimfield, IL 61517. PCC operates under landfill Permit No. 1996-089-LF and BOL ID No. 1438165003.

1. This letter;
2. LPC-PA1, General Application for Permit;
3. LPC-PA3, Treatment/Storage Facilities;
4. LPC-PA16, Public Notification Letters;
5. Section 39(i) Certifications;
6. Attachments

The information provided in this letter addresses the requirements in the LPC-PA3 form and is organized in the same order.

Location Information

Prairie Hill RDF is located in Sections 13, 14, 23, and 24, Township 21 North and Range 5 East of the Morrison Quadrangle. A copy of the USGS 7.5 minute Morrison Quadrangle showing the location of the facility is provided as Attachment 1.

Facility Background

Prairie Hill RDF is an existing facility that began operation in 1995 under Permit No. 1994-579-LF. In April of 2023, the facility completed construction and began operation of a 40,000 gallon per day leachate evaporation unit for the disposal of site generated leachate. The facility currently has nine leachate collection cell sump risers as well as various wellfield leachate pumps that convey liquid via perimeter forcemain to a 20,000 gallon underground storage tank near the evaporator. Leachate from the underground tank is then pumped to a 40,000 gallon aboveground storage tank which is used to feed the evaporation unit.

The evaporator is currently managing approximately 20,000 gallons per day and has the capacity to receive and process additional leachate.

General Facility Information

Plan Sheet of the Site

The leachate evaporator unit is located on the northwest side of the closed landfill unit (near Phase 4, Cell 2) as shown on the Liquid Management Infrastructure and Evaporator Layout drawings included in Attachment 2.

Process Flow Diagram

A Process Flow Diagram for offsite leachate acceptance operations is provided as Attachment 3.

Narrative Description of the Site's Offsite Leachate Acceptance Operations

The evaporator unit is equipped to operate, as necessary, 24 hours per day / 7 days per week. The technology consists of injecting hot gas from landfill gas combustion into a reservoir containing leachate, which generates water vapor. The vapor is discharged directly to the atmosphere through three stacks of equal diameter and a concentrated residual is left behind. Fresh leachate is continuously fed into the reservoir and the residual is directed to a clarifier for further concentration of solids. The residual is removed from the clarifier and deposited in a temporary storage tank. Periodically, the solids are removed from the storage tank and deposited within the landfill for disposal.

As the evaporator is currently operating under its designed capacity, the site would like to utilize some of this excess capacity as an alternative disposal option for leachate from other WM operated facilities. Leachate will be hauled to the site via tanker truck, and the trucks will utilize the existing facility roads to reach the evaporator area. The existing underground storage tank near the evaporator is equipped with a load out pad that was used for emptying the tank prior to installation of the evaporator. This load out will be modified to allow tanker trucks to offload leachate directly into the underground tank, which is then pumped to the

aboveground tank to feed the evaporator. Locations of the underground tank and load out pad can be seen on the figures provided in Attachment 1.

Waste Characterization and Analysis Plan

The only waste to be accepted at the site as part of this operation will be leachate generated by PCC #2 . PCC #2 maintains analytical records for its site generated leachate, the composition of which is akin to typical landfill leachate.

Residuals

Leachate evaporated in the unit produces an approximately 8% - 10% by volume residual sludge. The residual is removed from the clarifier and deposited in a temporary storage tank. Periodically, the solids are removed from the storage tank and deposited within the landfill for disposal.

Contingency Plan

The operations being proposed in this application should not require an independent contingency plan. The only new operation being proposed is the offloading of leachate tanker trucks into an existing underground storage tank. The site will utilize the existing contingency plan included in the site operations plan approved under Permit No. 1994-579-LF.

Containment System

The underground storage tank that will be used for offloading of offsite leachate is equipped with a concrete loadout containment pad to prevent spills during leachate unloading. The aboveground storage tank that feeds the evaporator is a dual walled tank installed on a concrete containment pad. The evaporator building itself is fit with concrete containment and floor drains that collect any spills and convey these liquids back into the evaporation unit. No additional containment systems will be necessary.

Run-on/Run-off

The proposed operation will not have any impact on stormwater run-on/run-off. The site will continue to utilize the existing stormwater control measures.

Inspection Procedures

The evaporator has existing inspection and maintenance programs as part of routine operations, as well as the landfill's current Spill Prevention Control and Countermeasure Plan. No additional inspections for the proposed operations will be required. The offloading area near the underground storage tank will be monitored for leaks/spills when tankers are depositing leachate.

Operating Record

Leachate throughput in the evaporator is tracked by volume on an operating log. For offsite leachate, an additional column dedicated to offsite tanker trucks will be added to the log for tracking. An example of the current operating log for the month of September 2023 is included as Attachment 4.

A manifest generated by PCC #2 will accompany each tanker load brought to the site for disposal. This will include a date, manifest number, the generator's name (PCC #2), and the total gallons being received.

Closure/Post-Closure Plan

The operations being proposed in this application should not require an independent Closure/Post-Closure Plan. The site will utilize the existing plan approved under Permit No. 1994-579-LF.

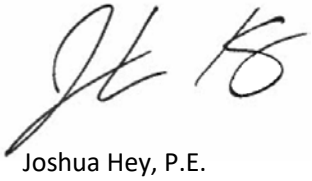
Site Suitability

The operations proposed in this application are taking place at an existing landfill facility already determined to be suitable under Permit No. 1994-579-LF. The addition of these operations will not create any additional hazards to public health and safety.

Attached please find an original and two copies of this application.

Should you have any questions, please do not hesitate to contact me at 224-545-2229

Sincerely,
Waste Management of Illinois, Inc.



Joshua Hey, P.E.
Engineer

Electronic Filing: Received, Clerk's Office 03/27/2025

Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

General Application for Permit (LPC - PA1)

This form must be used for any application for permit from the Bureau of Land, except for landscape waste composting or hazardous waste management facilities regulated in accordance with RCRA, Subtitle C. One original, and two copies, or three if applicable, of all permit application forms must be submitted. Attach the original and appropriate number of copies of any necessary plans, specifications, reports, etc. to fully support and describe the activities and modifications being proposed. Attach sufficient information to demonstrate the compliance with all regulatory requirements. Incomplete applications will be rejected. Please refer to the instructions for further guidance. **Note: Applicants must provide a physical address; the post office will not deliver a certified letter (final action letter) to a P.O. Box only. Please provide an extended ZIP+4 code for the site identification and owner/operator information.**

You may complete this form online, save a copy locally, print, sign and submit it to the Bureau of Land at the address below. Note: Hand-delivered permit applications must be delivered between 8:30 am and 5:00 pm, Monday through Friday (excluding State holidays) to

Bureau of Land, Permit Section, Mail Code #33
1021 North Grand Avenue East, P.O. Box 19276
Springfield, IL 62794-9276

Instructions

I. Site Identification

Site Name: Prairie Hill RDF — IEPA BOL No.: 1950350014

Street Address: 18762 Lincoln Road — P.O. Box:

City: Morrison — State: IL — Zip + 4:*61270-9587 — *Notification letters will not be sent without a 9-digit zip code. — County: Whiteside

Existing DE/OP Permit Numbers (if applicable): 1994-579-LF

II. Applicant Identification

Owner

Name: County of Whiteside
Street Address: 200 E. Knox Street
PO Box:
City: Morrison — State: IL
Zip + 4: 61270-9587 — Phone: 815 772-7651
Contact: Russ Renner
Email Address: rrenner@whiteside.org
FEIN ID No.

Operator (if Different)

Name: Waste Management of Illinois, Inc.
Street Address: 18762 Lincoln Road
PO Box:
City: Morrison — State: IL
Zip + 4: 61270-9587 — Phone: 224-525-2229
Contact: Joshua Hey
Email Address: jhey@wm.com
FEIN ID No.

Agency correspondence mailed to:

☐ Owner ☑ Operator ☐ Other - Explain:

TYPE OF SUBMISSION/REVIEW PERIOD:

- ☐ New Landfill/180 days (35 IAC Part 813)
- ☐ Landfill Expansion/180 days (35 IAC Part 813)
- ☐ Sig. Mod. to Operate/90 days (35 IAC Part 813)
- ☐ Other Sig. Mod./90 days (35 IAC Part 813)
- ☐ Renewal of Landfill/90 days (35 IAC Part 813)
- ☐ Development/90 days (35 IAC Part 807)
- ☑ Operating/45 days (35 IAC Part 807)
- ☐ Operating/90 days (35 IAC Part 848)
- ☐ Supplemental/90 days (35 IAC Part 807)
- ☐ Permit Transfer/90 days (35 IAC Part 807)
- ☐ Renewal of Experimental Permit (35 IAC Part 807)

TYPE OF FACILITY:

- ☑ Landfill
- ☐ Land Treatment
- ☐ Transfer Station
- ☑ Treatment Facility
- ☐ Storage
- ☐ Incinerator
- ☐ Composting
- ☐ Recycling/Reclamation
- ☐ Used Tire Storage/Processing Facility
- ☐ Other (Specify)

TYPE OF WASTE:

- ☑ General Municipal Refuse
- ☐ Hazardous
- ☑ Special (Non-Hazardous)
- ☐ Chemical Only (exec. putrescible)
- ☐ Inert Only (exec. chem. & putrescible)
- ☐ Used Oil
- ☐ Potentially Infectious Medical Waste
- ☐ Landscape/Yard Waste
- ☐ Used Tires
- ☐ Other (Specify)

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42).

III. Description of this Permit Request: (Note: The box below will expand as needed)

Application requesting accept offsite leachate from other WM operated facilities for disposal in the leachate evaporator

IV. Completeness Requirements

1. Have all required public notice letters been mailed in accordance with the LPC-PA16 instructions? Yes ☑ No ○ N/A ○

(If so, provide a list of those recipients of the required public notice letters for Illinois EPA retention. Such retention shall not imply any Illinois EPA review and/or confirmation of the list.)

Public Notice Recipients

Name: Hon. Tony McCombie		Title: Representative District 71	
Street Address: 2510 Locust Street		P.O. Box:	
City: Sterling	State: IL	Zip Code: 61081	
Name: Hon. Neil Anderson		Title: Senate District 36	
Street Address: 1523 47th Avenue, Suite 2		P.O. Box:	
City: Moline	State: IL	Zip Code: 61265	
Name: Illinois State's Attorney		Title: State's Attorney	
Street Address: 200 E. Knox Street		P.O. Box:	
City: Morrison	State: IL	Zip Code: 61270	
Name: James Duffy		Title: County Board Chairman	
Street Address: 200 E. Knox Street		P.O. Box:	
City: Morrison	State: IL	Zip Code: 61270	
Name: Morrison City Clerk		Title: City Clerk	
Street Address: 200 W. Main Street		P.O. Box:	
City: Morrison	State: IL	Zip Code: 61270	
Name: Whiteside County Clerk		Title: County Clerk	
Street Address: 200 E. Knox Street		P.O. Box:	
City: Morrison	State: IL	Zip Code: 61270	
Name: Mt. Pleasant Township Clerk		Title: Township Clerk	
Street Address: 210 W. Morris Street		P.O. Box:	
City: Morrison	State: IL	Zip Code: 61270	
Name: Hopkins Township Clerk		Title: Township Clerk	
Street Address: 24719 Emerson Road		P.O. Box:	
City: Sterling	State: IL	Zip Code: 61081	
Name: Lyndon Township		Title: Township Clerk	
Street Address: 302 2nd Avenue St.		P.O. Box:	
City: Lyndon	State: IL	Zip Code: 61261	

	Yes	No	N/A
2. a. Is the Siting Certification Form (LPC-PA8) completed and enclosed?	○	○	☑
b. Is siting approval currently under litigation?	○	○	☑
3. a. Is a closure, and if necessary a post-closure plan covering these activities being submitted, or	○	☑	○
b. has one already been approved?	☑	○	○

If yes, provide the permit number: 1994-579

4. a. For operating waste disposal sites, only: Has any employee, owner, operator, officer or director of the owner or operator had a prior conduct certification denied, canceled or revoked?	○	⊘	○
b. Have you included a demonstration of how you comply or intend to comply with 35 Ill. Adm. Code 745?	○	○	⊘
5. a. For waste disposal sites, only: Is the property for the facility held in a beneficial trust?	○	⊘	○
b. If yes, is a beneficial trust certification form (LPC-PA9) completed and enclosed?	○	○	⊘
6. a. Does the application contain information or proposals regarding the hydrogeology; groundwater monitoring, modeling or classification; a groundwater impact assessment; or vadosezone monitoring for which you are requesting approval?	○	⊘	○
b. If yes, have you submitted a third copy of the application (4 total) and supporting documents?	○	○	⊘
7. Has the required 39(i) certification been attached? A 39(i) certification must be submitted with information concerning the following persons or entities:			
a. the owner of the business entity applying for the permit;	⊘	○	○
b. the operator of the business entity applying for the permit;	⊘	○	○
c. each employee or officer of the owner or operator who signed the permit application or has managerial authority at the site; and	⊘	○	○
d. any additional owner, operator, or officer or employee of the owner or operator from whom a certification is requested by the Illinois EPA, including any officer or employee who will be responsible for overseeing or implementing regulated activities governed by the permit.	○	○	⊘

If no, then complete this certification as indicated.

V. Signatures:

Original signatures are required. Signature stamps or applications transmitted electronically or by FAX are not acceptable.

All applications shall be signed by the person designated below as a duly authorized representative of the owner an/or operator. A printed name for each signature should also be provided.

Corporation - By a principal executive officer of the level of vice-president or above.
Partnership or Sole Proprietorship - By a general partner or the proprietor, respectively.
Government - By either a principal executive officer or a ranking elected official.

A person is a duly authorized representative of the owner and operator only if:

1. They meet the criteria above or the authorization has been granted in writing by a person described above; and
2. Is submitted with this application (a copy of a previously submitted authorization can be used).

I hereby affirm that all information contained in this application is true and accurate to the best of my knowledge and belief. I do herein swear that I am a duly authorized representative of the owner/operator and I am authorized to sign this permit application form.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Martin Koster — Owner Signature
10/6/2023 — Date

Martin Koster — Printed Name
County Board Chairman — Title

Notary: Subscribed and Sworn before me this 10 day of Oct 2023.

My commission expires on: April 11 2027

DAWN HOUSENGA
OFFICIAL SEAL
Notary Public, State of Illinois
My Commission Expires
April 11, 2027

Dawn Housenga — Signature & Stamp/Seal of Notary Public

Operator Signature
11/2/2023 — Date

Joshua Hey — Printed Name
Engineer — Title

Notary: Subscribed and Sworn before me this 2 day of November 2023.

My commission expires on: April 29, 2025

KEISHA REINDERS
Official Seal
Notary Public - State of Illinois
My Commission Expires Apr 29, 2025

Keisha Reinders — Signature & Stamp/Seal of Notary Public

Engineer's Name: Joshua Hey, P.E.
Engineer's Ttle: Engineer
Company: WM
Registration Number: 062-072163
Street Address: 18370 Somonauk Road
PO Box:
City: Dekalb
State: IL
Zip Code: 60115
Phone: 224-545-2229
Email Address: jhey@wm.com
License Expiration Date: ~~Nov 30, 2023~~ 11/30/2025

Signature:
Date: 1/12/2024

LICENSED PROFESSIONAL ENGINEER
JOSHUA D. HEY
062-072163
OF ILLINOIS
1/12/2024

Professional Engineer's Seal

Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Application for a Solid Waste Management Permit to Develop Treatment and/or Storage Facilities (LPC-PA3)

Persons requesting a permit to develop a new solid waste treatment, storage, incineration, recycling, or land treatment site or requesting a permit for the first time for such a facility should use this application form. Facilities that are expanding, or adding new units (i.e., new storage area, new treatment units, etc.) should utilize this application as guidance, but the completed form is not required. Note: Hand-delivered Permit applications must be delivered between 8:30 am and 5:00 pm, Monday through Friday (excluding State holidays) to:

Bureau of Land, Permit Section, Mail Code #33
1021 North Grand Avenue East, P.O. Box 19276
Springfield, IL 62794-9276

You may also complete this form in Acrobat, save a copy, print, sign, and submit it to the Bureau of Land, Permit Section at the above address.

I. Site Identification

Site Name: Prairie Hill RDF — IEPA BOL No.: 1950350014

Street Address: 18762 Lincoln Road — P.O. Box: — County: Whiteside

City: Morrison — State: IL — Zip + 4: 61270-9587 — Notification letters will not be sent without a 9-digit zip code.

II. Applicant Identification

1.

Owner	Operator (if different)
Name: County of Whiteside	Name: Waste Management of Illinois, Inc.
Street Address: 200 E. Knox Street	Street Address: 18762 Lincoln Road
PO Box:	PO Box:
City: Morrsion — State: IL	City: Morrison — State: IL
Zip + 4: 61270-9587 — Phone: 815-772-7651	Zip + 4: 61270-9587 — Phone: 224-545-2229
Contact: Russ Renner	Contact: Joshua Hey
Email Address: rrenner@whiteside.org	Email Address: jhey@wm.com
FEIN ID No.	FEIN ID No.

2. **Ownership and Operator Status:**

Owner	Operator	
☐	☑	Corporation (ILL)
☑	☐	Government Body
☐	☐	Individual
☐	☐	Partnership
☐	☐	Sole Proprietor
☐	☐	Trust
☐	☐	Other:

Land is Owned by:

- ☑ Owner
- ☐ Operator
- ☐ Leased by Applicant
  - Leased by Applicant for ___ years
  - Years of Lease Remaining: ___
  - Beginning Date of Lease: ___
  - Expiration Date of Lease: ___
- ☐ Held in Trust*
  - Name of Trust: ___

*(Note: Lands that are held in trust and owners and operators of disposal sites must complete form LPC-PA9.)

III. Location Information

Attach a copy of the United States Geological Survey (USGS) quadrangle map (7.5 minute quadrangle, if published) and/or a topographic map of the area which contains the site. Also provide a legal description of the site.

Name of Quadrangle Map provided: Morrison Quadrangle — Date: 2021

423 Acres in ___ Quarter, ___ Quarter, ___ Quarter, of Section 13,14,23,24

Township 21N, Range 5 East P.M. — Local Description: Lot ___ Block ___

Present Zoning Classification and Restrictions (if any): ___

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42).

IV. Facility Background

☑ This is an existing facility. Operation began: 7/10/1995

☐ This is a proposed development.

☑ This is a proposed expansion to an existing facility. IEPA BOL No.: 1994-579-LF

☐ Other existing environmental facility permits: _____

Consult instructions for the contents of Sections V-VIII.

V. General Facility Information

The following information must accompany the application. Please indicate the location in the application for the document being submitted for this application.

Page number or location of information	
Attachment 2	1. A plan sheet of the site
Attachment 3	2. A process flow diagram of the treatment or storage operation
Page 2 Letter	3. A narrative description of the site's operation, including the days and hours of operation
Page 3 Letter	4. Waste characterization plan (Identify wastes to be accepted and how they are to be managed.)
Page 3 Letter	5. Waste analysis plan (a description of analysis methods used to screen and test waste types)
Page 3 Letter	6. Residuals (a description of methods used to treat, transfer or dispose of residual wastes generated from the operation of the site)
Page 3 Letter	7. Contingency plan
Page 3 Letter	8. Containment system
Page 3 Letter	9. Run-on/Run-off
Page 3 Letter	10. A description of inspection procedures
Page 4 Letter	11. Operating record
Page 4 Letter	12. Closure plan
Page 4 Letter	13. Post closure use of site
Page 4 Letter	14. Site suitability

VI. Treatment and/or Storage

1. This application is for treatment ☑ and/or storage ☐ in the following: (check the appropriate box(es)):

☐ Tanks	☐ Surface Impoundments
☐ Drums	☐ Waste Piles
☐ Barrels	☐ Landfarms
☐ Roll-off Boxes	☑ Other: Leachate Evaporator

2. General Information: For each box checked above, provide the following information, where applicable.

A. Location drawings	F. Type of waste(s) contained in each area
B. Material of construction	G. Tank Design
C. Number of units	H. Container design
D. Duration of storage	I. Surface Impoundment and waste pile design
E. Age of units	J. Treatment processes

VII. Incineration/Thermal Treatment

Is an incinerator or thermal treatment unit included in this application? (Refer to the instructions). ○ Yes ⊘ No

VIII. Hydrogeology

Is a site hydrogeology plan required for this application? (Refer to the instructions). ○ Yes ⊘ No

Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

39(i) Certification
for Operating a Waste Management Facility

Pursuant to 415 ILCS 5/39(i), prior to issuing any RCRA permit, or any permit for a waste storage site, sanitary landfill, waste disposal site, waste transfer station, waste treatment facility, waste incinerator, clean construction or demolition debris fill operation, or used tire storage site, the Illinois EPA must conduct an evaluation of the prospective owner's or operator's prior experience in waste management operations, clean construction or demolition debris fill operations, and tire storage site management. As part of that evaluation please complete and submit this form with your permit application.

This form may be completed online and saved locally before printing, signing and submitting it to the Illinois EPA at the address below. If the form is completed manually, please type or print clearly.

Illinois Environmental Protection Agency
Division of Land Pollution Control - #33
39(i) Certification
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

I. Applicant Information

Site Name: Prairie Hill RDF IEPA BOL No.: 1950350014

Site Address: 18762 Lincoln Road

City: Morrison State: IL Zip Code: 61270-9587

Permit Numbers (if applicable): 1994-579-LF

Owner

Owner Name: County of Whiteside

Street Address: 18819 Lincoln Road

City: Morrison State: IL Zip: 61270

Operator

Operator Name: Waste Management of Illinois, Inc.

Street Address: 18762 Lincoln Road

City: Morrison State: IL Zip: 61270

Is this 39(i) certification for the owner or the operator?

◯ Owner ⊘ Operator ◯ Owner and operator are the same entity

II. Officers and Employees with Site Responsibility

Unless the owner and operator are the same entity, a separate 39(i) form must be submitted for both the owner and operator. Persons operating under the authority of the owner should be listed on the owner's 39(i) form and persons operating under authority of the operator should be listed on the operator's 39(i) form.

A. Officers: List the name and title of all officers of the owner or operator that will have personal involvement or active participation in the operation or management of the site or facility for which the application is submitted.

Name	Title

B. Employees: List the name and title of each employee of the owner or operator that will have personal involvement or active participation in the overall operation or management of the site or facility for which the application is submitted (e.g. site managers, site engineers, and other persons who direct or control the overall day-to-day management of the operation, but not persons whose duties are exclusively limited to equipment operation, labor, or similar non-managerial functions).

Name	Title
Josh Hey (as agent of WM, not as individual)	Engineer III

III. Owner, Operator, Officer, and Employee Information

A. Prior Conduct Identification

The applicant must answer each of the following questions for every owner or operator, and for any officer or employee identified under Section II. If the answer to any of the following questions is affirmative, the applicant must complete an Attachment A for each person for whom the answer is affirmative and include a copy of each final administrative or judicial determination that required an affirmative response. If the information for each owner, operator, officer, and employee has not changed since the applicant's last submission of a 39(i) certification, the applicant can skip to Section III(C), below.

1) Has there been a finding that any person named in Section II violated federal, State, or local laws, regulations, standards, or ordinances in the operation of one or more waste management facilities or sites, clean construction or demolition debris fill operation facilities or sites, or tire storage sites? ○ Yes ⊘ No

2) Has any person named in Section II ever been convicted in this or another State of any crime which is a felony under the laws of this State, or convicted of a felony in a federal court; or convicted in this or another state or federal court of any of the following crimes: forgery, official misconduct, bribery, perjury, or knowingly submitting false information under any environmental law, regulation, or permit term or condition? ○ Yes ⊘ No

3) Has there been a finding against any person named in Section II of gross carelessness or incompetence in handling, storing, processing, transporting or disposing of waste, clean construction or demolition debris, or used or waste tires, or a finding of gross carelessness or incompetence in using clean construction or demolition debris as fill? ○ Yes ⊘ No

B. Pending Proceedings

The applicant must answer each of the following questions for every owner or operator, and for any officer or employee identified in Section II. If the answer to any of the following questions is affirmative, the applicant must complete an Attachment A for each person for whom the answer is affirmative and provide information identified in Attachment A regarding the pending proceeding.

1. Is there any proceeding currently pending against any person named in Section II that could result in a conviction or finding described in subsection A, above? ○ Yes ⊘ No

2. Is there any proceeding currently pending against any person named in Section II that could result in the reversal of a conviction or finding described in subsection A, above? ○ Yes ⊘ No

C. Prior Application Information

If (i) the applicant has previously submitted the Attachments required pursuant to subsections A and B above and (ii) the Attachments previously submitted are still complete, true, and correct, then the applicant does not need to include Attachments with this submission if the following box is checked:

☐ By checking this box, I affirm that the Attachments previously submitted are still complete, true, and correct and wish to incorporate them into this Certification.

If the above box is checked, identify the application that contains the previously submitted Attachments that are complete, true, and correct.

Authorization for Release of Information

This Certification must be signed by an officer of the applicant.

The undersigned authorizes any representative of the Illinois Environmental Protection Agency bearing this release to obtain any information from the Illinois State Police pertaining to the criminal records of the applicant and hereby directs the Illinois State Police to release such information upon request of the bearer. The undersigned authorizes a review of and full disclosure of all records, or any part thereof, concerning the applicant's criminal records by and to a duly authorized agent of the Illinois Environmental Protection Agency, whether the records are of public, private, or confidential nature. The intent of this authorization is to give consent for full and complete disclosure of the applicant's criminal records.

The undersigned fully understands that any information which is developed directly or indirectly, in whole or in part, as a result of this authorization will be considered in determining whether a permit shall be issued by the Illinois Environmental Protection Agency under the Environmental Protection Act [415 ILCS 5]. The undersigned further agrees to release the Illinois State Police and the Illinois Environmental Protection Agency, its agents and designees under this release, from any and all liability which may be incurred as a result of compliance with this authorization for release of information.

Certification Statements

I certify under penalty of law that the information submitted, including information on any Attachments submitted as part of or incorporated into this Certification, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Signature of Applicant Officer	1/12/2024 Date
Josh Hey (as agent of WM, not as individual) Printed Name	Engineer III Title

Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

39(i) Certification
for Operating a Waste Management Facility

Pursuant to 415 ILCS 5/39(i), prior to issuing any RCRA permit, or any permit for a waste storage site, sanitary landfill, waste disposal site, waste transfer station, waste treatment facility, waste incinerator, clean construction or demolition debris fill operation, or used tire storage site, the Illinois EPA must conduct an evaluation of the prospective owner's or operator's prior experience in waste management operations, clean construction or demolition debris fill operations, and tire storage site management. As part of that evaluation please complete and submit this form with your permit application.

This form may be completed online and saved locally before printing, signing and submitting it to the Illinois EPA at the address below. If the form is completed manually, please type or print clearly.

Illinois Environmental Protection Agency
Division of Land Pollution Control - #33
39(i) Certification
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

I. Applicant Information

Site Name: Prairie Hill RDF IEPA BOL No.: 1950350014

Site Address: 18762 Lincoln Road

City: Morrison State: IL Zip Code: 61270-9587

Permit Numbers (if applicable): 1994-579-LF

Owner

Owner Name: County of Whiteside

Street Address: 18819 Lincoln Road

City: Morrison State: IL Zip: 61270

Operator

Operator Name: Waste Management of Illinois, Inc.

Street Address: 18762 Lincoln Road

City: Morrison State: IL Zip: 61270

Is this 39(i) certification for the owner or the operator?

☑ Owner ○ Operator ○ Owner and operator are the same entity

II. Officers and Employees with Site Responsibility

Unless the owner and operator are the same entity, a separate 39(i) form must be submitted for both the owner and operator. Persons operating under the authority of the owner should be listed on the owner's 39(i) form and persons operating under authority of the operator should be listed on the operator's 39(i) form.

A. Officers: List the name and title of all officers of the owner or operator that will have personal involvement or active participation in the operation or management of the site or facility for which the application is submitted.

Name	Title

B. Employees: List the name and title of each employee of the owner or operator that will have personal involvement or active participation in the overall operation or management of the site or facility for which the application is submitted (e.g. site managers, site engineers, and other persons who direct or control the overall day-to-day management of the operation, but not persons whose duties are exclusively limited to equipment operation, labor, or similar non-managerial functions).

Name	Title
Russell Renner, P.E.	County Engineer
Martin Koster	County Board Chairman

III. Owner, Operator, Officer, and Employee Information

A. Prior Conduct Identification

The applicant must answer each of the following questions for every owner or operator, and for any officer or employee identified under Section II. If the answer to any of the following questions is affirmative, the applicant must complete an Attachment A for each person for whom the answer is affirmative and include a copy of each final administrative or judicial determination that required an affirmative response. If the information for each owner, operator, officer, and employee has not changed since the applicant's last submission of a 39(i) certification, the applicant can skip to Section III(C), below.

1) Has there been a finding that any person named in Section II violated federal, State, or local laws, regulations, standards, or ordinances in the operation of one or more waste management facilities or sites, clean construction or demolition debris fill operation facilities or sites, or tire storage sites? ○ Yes ⊘ No

2) Has any person named in Section II ever been convicted in this or another State of any crime which is a felony under the laws of this State, or convicted of a felony in a federal court; or convicted in this or another state or federal court of any of the following crimes: forgery, official misconduct, bribery, perjury, or knowingly submitting false information under any environmental law, regulation, or permit term or condition? ○ Yes ⊘ No

3) Has there been a finding against any person named in Section II of gross carelessness or incompetence in handling, storing, processing, transporting or disposing of waste, clean construction or demolition debris, or used or waste tires, or a finding of gross carelessness or incompetence in using clean construction or demolition debris as fill? ○ Yes ⊘ No

B. Pending Proceedings

The applicant must answer each of the following questions for every owner or operator, and for any officer or employee identified in Section II. If the answer to any of the following questions is affirmative, the applicant must complete an Attachment A for each person for whom the answer is affirmative and provide information identified in Attachment A regarding the pending proceeding.

1. Is there any proceeding currently pending against any person named in Section II that could result in a conviction or finding described in subsection A, above? ○ Yes ⊘ No

2. Is there any proceeding currently pending against any person named in Section II that could result in the reversal of a conviction or finding described in subsection A, above? ○ Yes ⊘ No

C. Prior Application Information

If (i) the applicant has previously submitted the Attachments required pursuant to subsections A and B above and (ii) the Attachments previously submitted are still complete, true, and correct, then the applicant does not need to include Attachments with this submission if the following box is checked:

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The undersigned fully understands that any information which is developed directly or indirectly, in whole or in part, as a result of this authorization will be considered in determining whether a permit shall be issued by the Illinois Environmental Protection Agency under the Environmental Protection Act [415 ILCS 5]. The undersigned further agrees to release the Illinois State Police and the Illinois Environmental Protection Agency, its agents and designees under this release, from any and all liability which may be incurred as a result of compliance with this authorization for release of information.

Certification Statements

I certify under penalty of law that the information submitted, including information on any Attachments submitted as part of or incorporated into this Certification, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Martin Koster
Signature of Applicant Officer

10/6/2023
Date

Martin Koster
Printed Name

County Board Chairman
Title

Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • Box 19276 • Springfield • Illinois • 62794-9276

Notice of Application for Permit to Manage Waste (LPC-PA16)

Date: January 12, 2024

To Elected Officials and Concerned Citizens:

The purpose of this notice is to inform you that a permit application has been submitted to the Illinois EPA, Bureau of Land, for a solid waste project described below. You are not obligated to respond to this notice, however, if you have any comments, please submit them in writing to the Bureau of Land, Attn: Permit Section, at the above address, or contact the Permit Section at 217/524-3300 within 21 days.

NOTE: Please complete this form online, save a copy locally, print and submit it to the Permit Section #33, at the above.

The permit application, which is identified below, is for a project described at the bottom of this page.

Site Identification:

Site Name: Prairie Hill RDF IEPA ID Number: 1950350014

Street Address: 18762 Lincoln Road P.O. Box:

City: Morrison State: IL Zip Code: 61270 County: Whiteside

TYPE OF PERMIT SUBMISSIONS:

- ☐ New Landfill
- ☐ Landfill Expansion
- ☐ First Significant Modification
- ☐ Significant Modification to Operate
- ☐ Other Significant Modification
- ☐ Renewal of Landfill
- ☐ Development
- ☑ Operating
- ☐ Supplemental
- ☐ Transfer
- ☐ Name Change
- ☐ Generic

TYPE OF FACILITY:

- ☑ Landfill
- ☐ Land Treatment
- ☐ Transfer Station
- ☐ Treatment Facility
- ☐ Storage
- ☐ Incinerator
- ☐ Composting
- ☐ Recycling/Reclamation
- ☐ Other (Specify)

TYPE OF WASTE:

- ☑ General Municipal Refuse
- ☐ Hazardous
- ☑ Special (Non-Hazardous)
- ☐ Chemical Only (exec. putrescible)
- ☐ Inert Only (exec. chem. & putrescible)
- ☐ Used Oil
- ☐ Solvents
- ☐ Landscape/Yard Waste
- ☐ Other (Specify)

Description of Project:

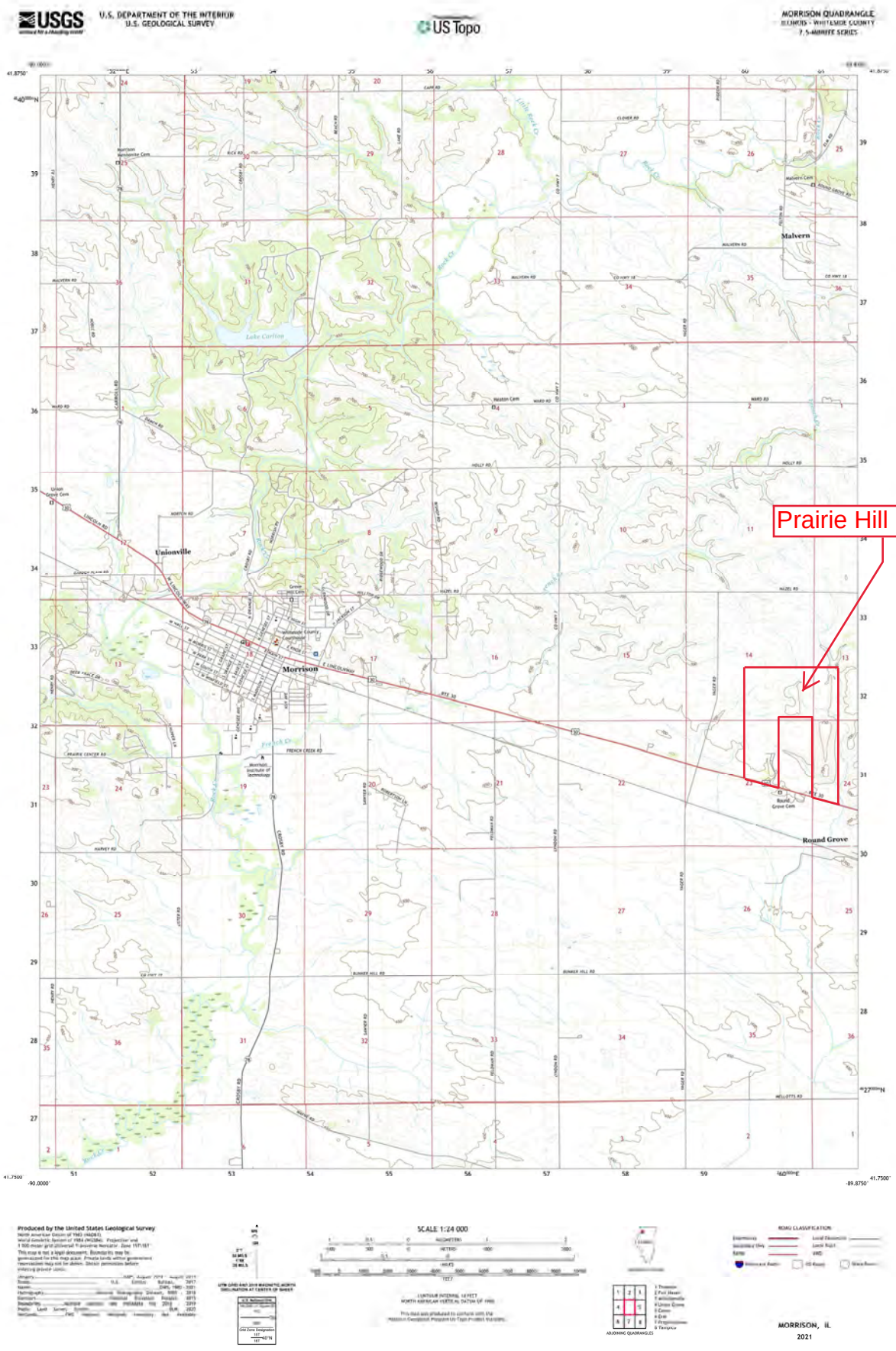
Application proposing to accept off site leachate from other WM operated facilities for processing in the leachate evaporator

IL 532-0334
LPC 040 Rev. 7/2011

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

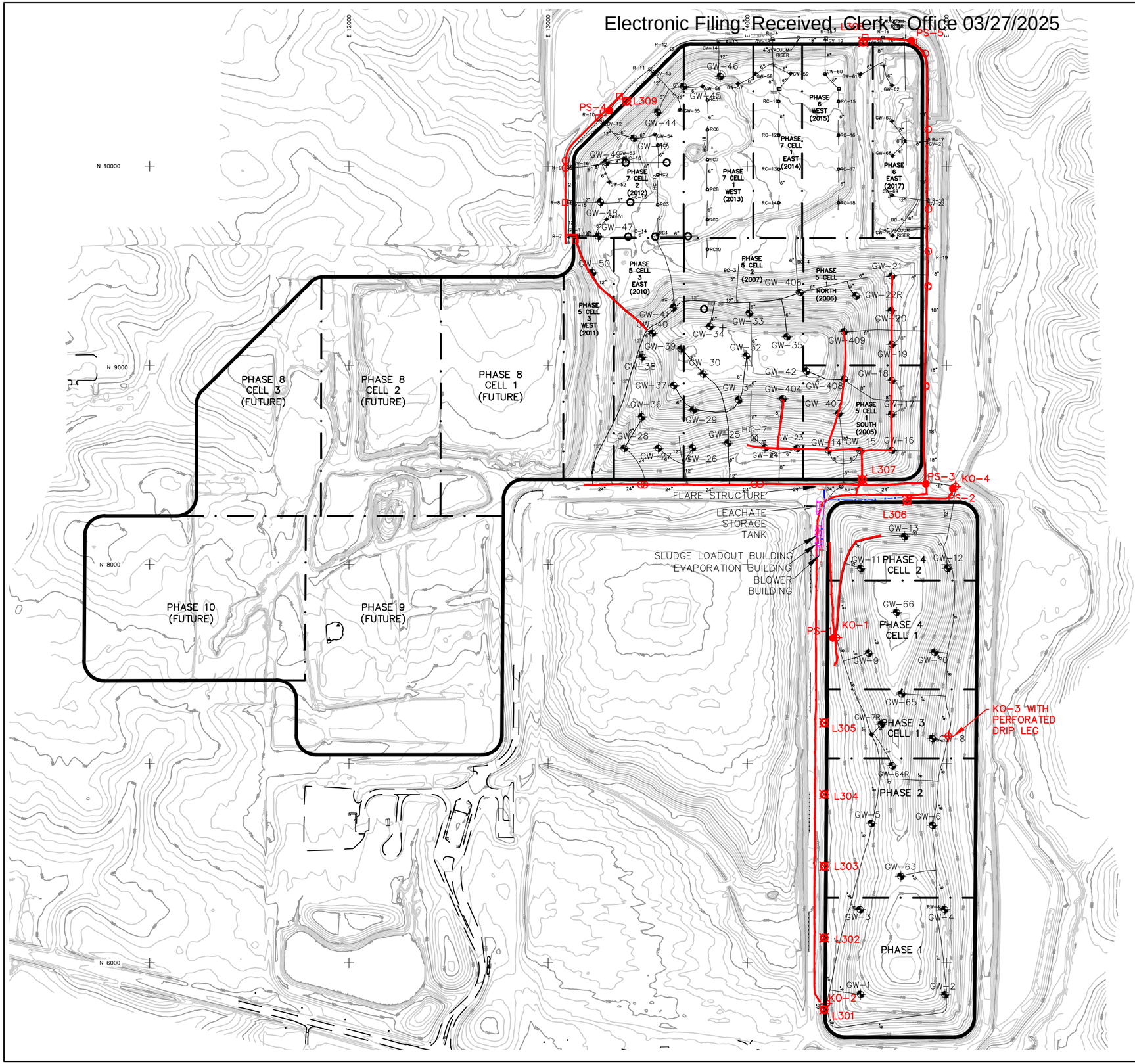
ATTACHMENT 1

SITE LOCATION MAP


USGS
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
US Topo
MORRISON QUADRANGLE
ILLINOIS - WHITESIDE COUNTY
7.5-MINUTE SERIES
Prairie Hill Landfill
Malvern
Unionville
Morrison
Round Grove
Lake Carlton
SCALE 1:24 000
MORRISON, IL
2021

ATTACHMENT 2

EVAPORATOR LOCATION AND LAYOUT



LEGEND

- APPROXIMATE SOLID WASTE BOUNDARY
- APPROXIMATE PHASE BOUNDARY
- 10' CONTOUR
- 2' CONTOUR
- EXISTING LFG PIPE
- EXISTING FORCEMAIN
- EXISTING CLEANOUT
- PS-1 EXISTING PUMPING STATION
- EXISTING FORCEMAIN RISER
- KO-1 EXISTING KNOCKOUT
- EXISTING ROCK COLUMN
- EXISTING GAS WELL
- EXISTING HORIZONTAL WELLHEAD
- L307 SUMP RISER
- EL EXISTING ELECTRICAL UNDERGROUND
- RECORD LEACHATE FORCEMAIN PIPE
- 2A RECORD AIRLINE PIPE
- RECORD WATERLINE PIPE
- RECORD CONCRETE PAD
- RECCORD HORIZONTAL COLLECTOR WELLHEAD
- // RECORD BLIND FLANGE

NOTES:

1. THIS DRAWING SHOWS THE EXTENT OF THE GAS MANAGEMENT SYSTEM AS OF 01/04/20.
2. CONTOURS SHOWN ARE FROM TOPOGRAPHIC BASE MAP FLOWN ON APRIL 18, 2017 BY WEAVER CONSULTANTS GROUP.

LEACHATE STORAGE AREA

~20,000 UNDERGROUND GAL CAPACITY
~40,000 ABOVEGROUND GAL CAPACITY

SCALE: 1" = 500'
0 250' 500' 1000'

☐ DRAFT
☐ RELEASED FOR BID
☐ APPROVED FOR CONSTRUCTION
☐ CLIENT APPROVAL BY: _____

PREPARED FOR: WASTE MANAGEMENT, INC.

LIQUID MANAGEMENT INFRASTRUCTURE

PRAIRIE HILL RDF
MORRISON, ILLINOIS

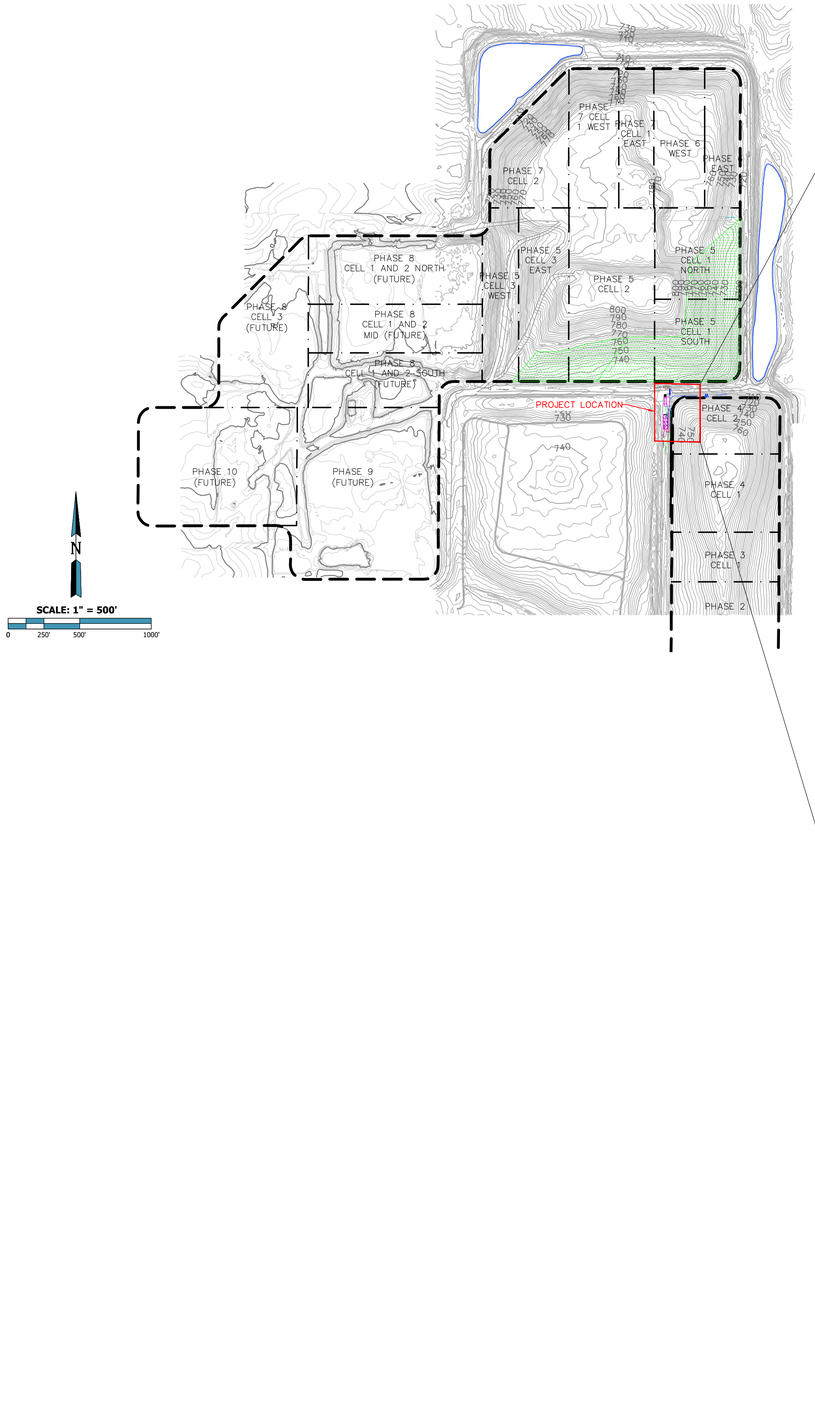
No.	DATE	REVISION DESCRIPTION

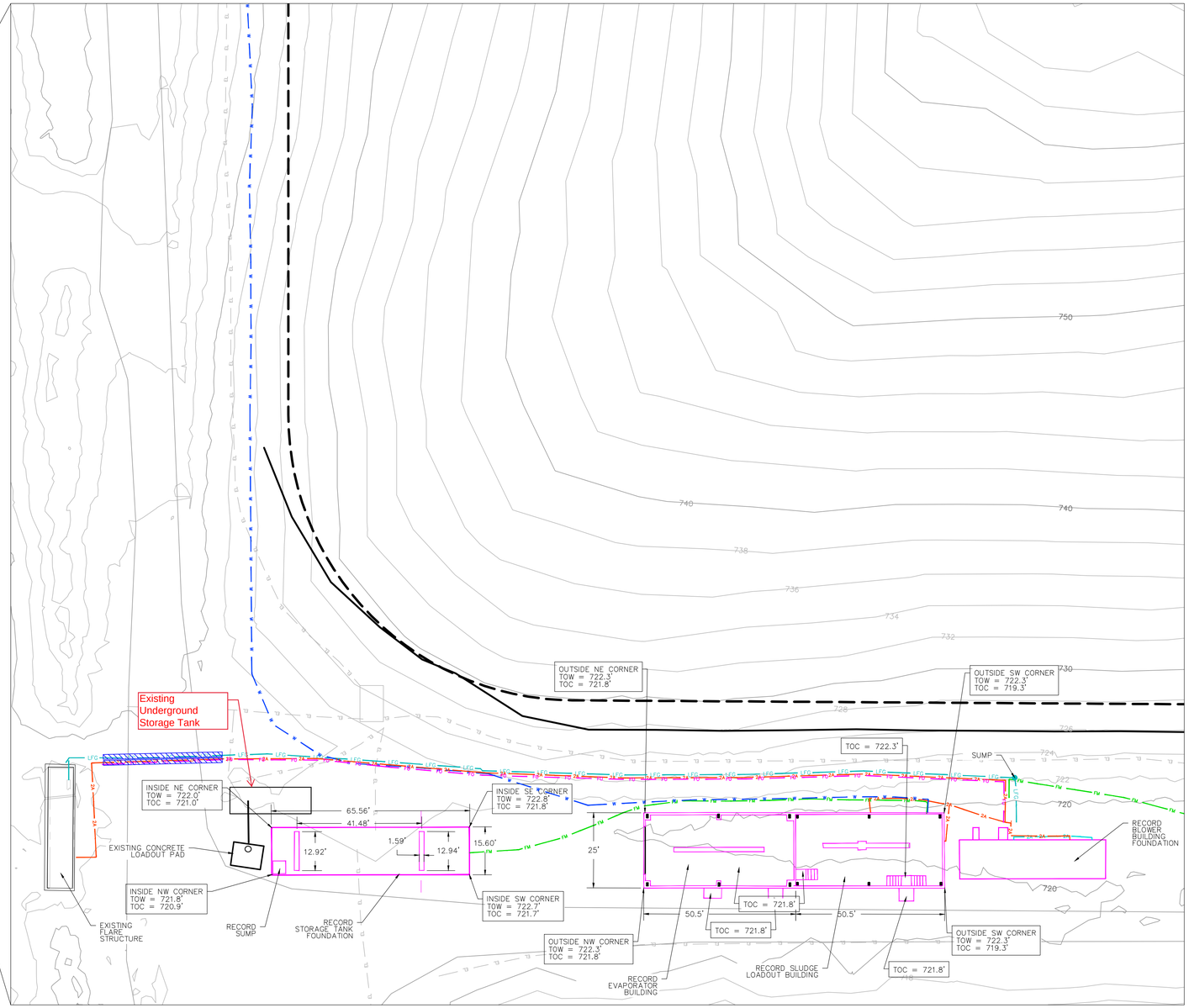
Weaver Consultants Group

WEAVER CONSULTANTS GROUP
1316 BOND STREET SUITE 108
NAPERVILLE, ILLINOIS 60563
(630)-717-4848
www.wcgrp.com

DRAWN BY:	BYL
REVISIED BY:	CJB
DATE:	9/22/2023
FILE:	0086-006-52
CAD:	PH001356.dwg

SHEET 1





KEY

- SOLID WASTE BOUNDARY
- PHASE BOUNDARY
- EXISTING ANCHOR TRENCH
- EXISTING ELECTRICAL UNDERGROUND
- RECORD LEACHATE FORCEMAIN PIPE
- RECORD AIRLINE PIPE
- RECORD WATERLINE PIPE
- RECORD CONCRETE PAD
- 7014 RECORD CONCRETE SURVEY POINT

NOTES:

1. EXISTING GRADE CONTOURS CREATED FROM FIELD SURVEYS PERFORMED BY WEAVER CONSULTANTS GROUP ON APRIL 5, 2022.
2. ELEVATIONS ARE USGS MEAN SEA LEVEL DATUM.
3. HORIZONTAL DATUM IS BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM. VERTICAL DATUM IS BASED ON USGS MEAN SEA LEVEL.
4. AS-BUILT POINTS PROVIDED BY WEAVER CONSULTANTS GROUP ON AUGUST 15, 2022 AND SEPTEMBER 9, 2022.

☒ DRAFT ☐ RELEASED FOR BID ☐ APPROVED FOR CONSTRUCTION ☐ CLIENT APPROVAL BY: _____ ☐ OTHER: _____

PREPARED FOR: WASTE MANAGEMENT, INC.

PRAIRIE HILL LEACHATE EVAPORATOR LAYOUT DRAWING

PRAIRIE HILL RDF
MORRISON, ILLINOIS

No.	DATE	REVISION DESCRIPTION	BY

Weaver Consultants Group

WEAVER CONSULTANTS GROUP
1316 BOND STREET, SUITE 108
NAPERVILLE, ILLINOIS 60563
(630) 717-4848
www.wcgrp.com

DRAWN BY:	STB
REVIEWED BY:	DAN
DATE:	11/09/2022
FILE:	0086-006-DWG
CAD:	PH001311.dwg

SHEET 2

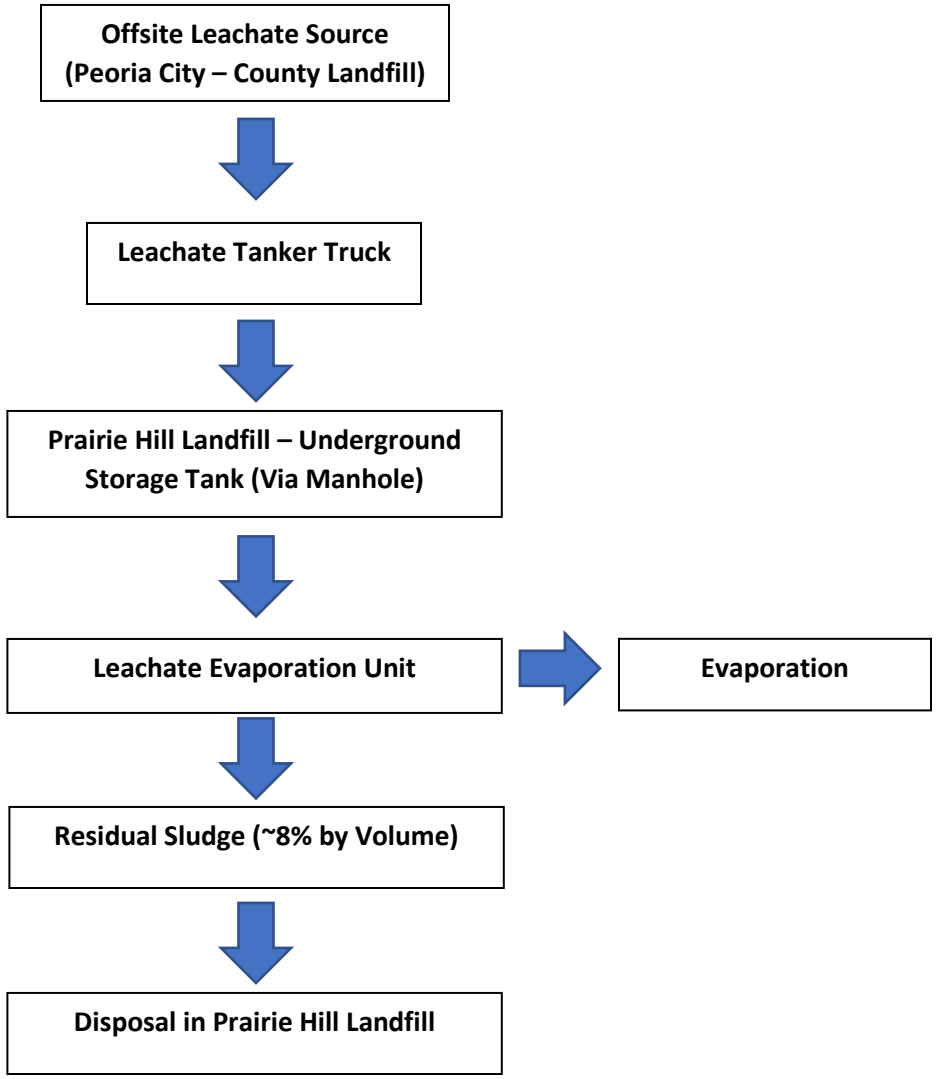
F:\PROJECTS\0086\06\dwg\PH001311.dwg,WCGr1965\corrigan,March 14, 2023

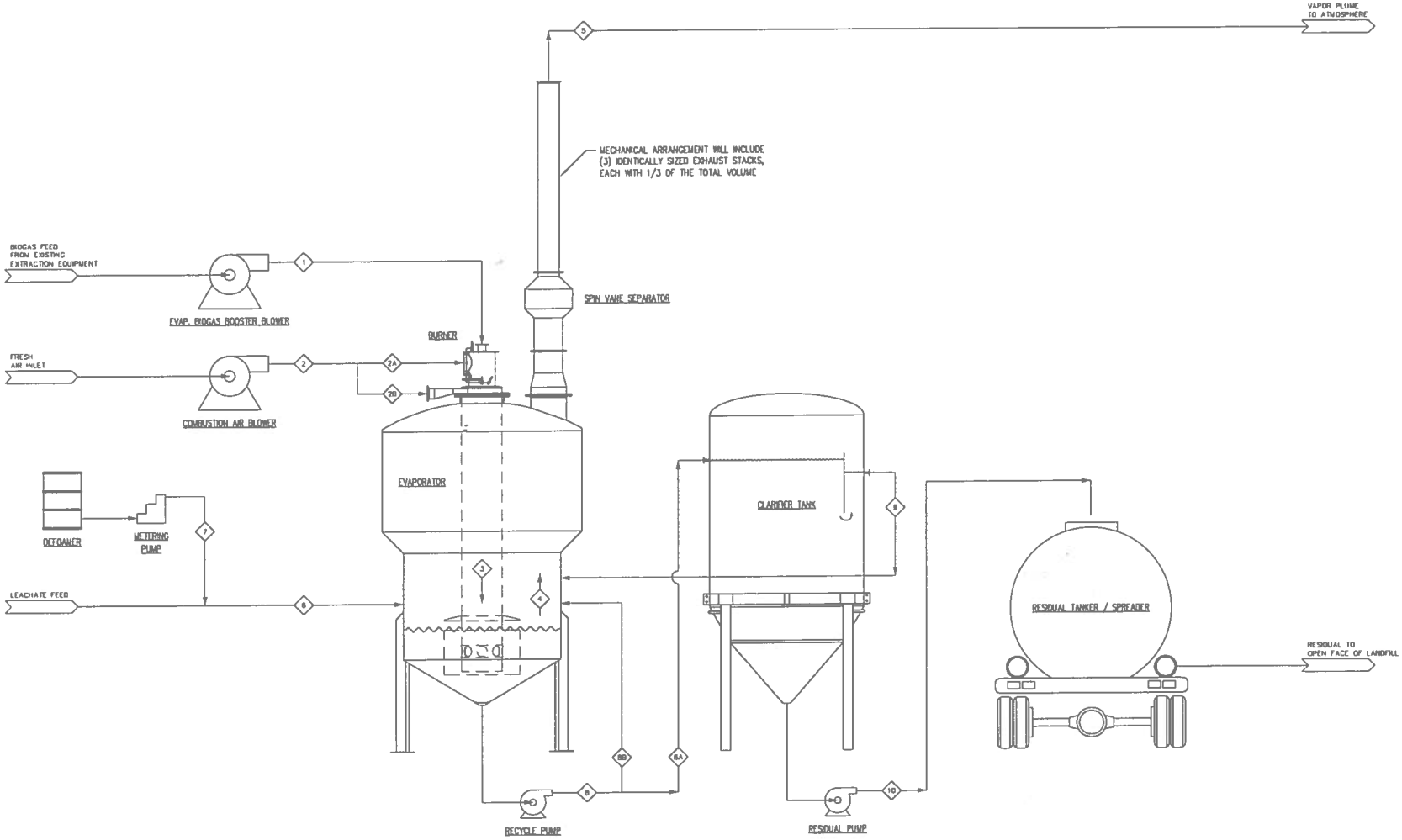
ATTACHMENT 3

PROCESS FLOW DIAGRAM

Process Flow Diagram

Offsite Leachate Acceptance for Disposal in Prairie Hill Evaporator Unit





APTIM

LFG Specialties
16406 US ROUTE 224 E
FINDLAY, OH 45840-9761
TELEPHONE: (419) 424-4999
WEBSITE: www.APTIM.com

TOLERANCE:

WBS COST CODES
10031101 – PROJECT MANAGEMENT
10041171 – MECHANICAL CAD
10032102 – PROCUREMENT
20031301 – SHOP SUPERVISION
20027105 – MECHANICAL LABOR
20011131 – MECHANICAL MATERIALS
20019210 – CLOTHING ITEMS
00031101 – STARTUP SERVICES
10027101 – CONSTRUCTION SERVICES

REV	DESCRIPTION / ISSUE	DATE	BY
0	ISSUED FOR PERMIT APPLICATION	12/04/17	RWHS

PROCESS FLOW DIAGRAM

DRAWN BY	CHECKED	APPROVED BY	REV.
C. KOHRING	R. KECKLER	R. KECKLER	0

SCALE	DATE	PROJECT #
NONE	-	-

PROJECT NAME: LEACHATE EVAPORATOR SYSTEM 40,000 GPD

DISCIPLINE: WASTE MANAGEMENT

SERIAL NO.	SIZE NO.	SHT
P#091719	PFD	1

File: P:\ph\P\17\P#091719, Old Pheasant Point, 40K E-Vols\Permitting\Process Flow Diagram.dwg Layout: Shift User: russell.beckler Dec 01, 2017 - 11:33am

ATTACHMENT 4

OPERATING LOG

DATE	LEACHATE	EFFLUENT	EVAPORATION	LEACHATE TOTALIZER	EFFLUENT TOTALIZER	307 TOTALIZER	308 TOTALIZER	309 TOTALIZER	NOTES
9/1/2023	21134	693	20441	1811263	200549	456418	518573	366544	
9/2/2023	21162	1346	19816	1833244	200756	456418	518573	366544	
9/3/2023	0	0	0	1845163	200756	456418	518573	366544	
9/4/2023	0	0	0	1845163	200756	456418	518573	366544	
9/5/2023	0	0	0	1845921	200956	468239	522547	376061	start up at 1007
9/6/2023	10105	557	9548	1864391	201313	473399	535182	376061	
9/7/2023	21603	662	20941	1884568	201975	477735	542525	383105	
9/8/2023	21489	199	21290	1902404	202641	480718	552732	392412	loss of power shutdown at 0436/start up 1455
9/9/2023	12048	469	11435	1918182	202643	480718	552732	392412	
9/10/2023	0	0	0	1918182	202643	480718	552732	392412	
9/11/2023	0	0	0	1928039	202643	486924	557564	394847	
9/12/2023	10364	204	10160	1948068	203031	503930	562091	399881	shutdown at 1345 for monthly cleaning
9/13/2023	10229	184	10045	1948632	207473	504606	571863	408122	
9/14/2023	2235	700	1535	1950867	209008	504606	571863	408122	start up at 0938
9/15/2023	13425	0	13425	1973425	209008	511997	573382	409603	
9/16/2023	11218	0	11218	1975510	209008	511997	573382	409603	
9/17/2023	0	0	0	1975510	209008	511997	573382	409603	
9/18/2023	0	0	0	1976164	209720	522786	577692	413238	start up at 1034
9/19/2023	10823	712	10111	1994347	210100	524602	577692	413238	
9/20/2023	21715	481	21234	2012300	210201	531550	581941	413238	loss of power shutdown at 0449/start up 1455
9/21/2023	18690	6923	11767	2034255	217124	536670	584904	420370	
9/22/2023	20022	0	20022	2055418	217124	544157	592969	427512	
9/23/2023	13603	2562	11829	2082845	219435	544157	592969	427512	
9/24/2023	0	0	0	2082845	219435	544157	592969	427512	
9/25/2023	0	0	0	2082845	220135	550031	602740	441868	start up at 1255
9/26/2023	11476	1611	9865	2100655	222565	564678	602943	452742	
9/27/2023	19623	2327	17296	2123806	225222	567327	613120	452742	
9/28/2023	24052	2975	21077	2139561	227164	578650	613603	457665	shutdown at 0205 low leachate
9/29/2023	0	0	0	2139561	227164	579335	614225	457665	
9/30/2023	0	0	0	2139561	227164	579335	614225	457665	

Total	295016	22605	273055

EXHIBIT G

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 · (217) 782-3397
JB PRITZKER, GOVERNOR JOHN J. KIM, DIRECTOR

217/524-3301

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

JUN 18 2024

9589 0710 5270 0477 0573 37

OWNER
County of Whiteside
Attn: Mr. Russell Renner
200 East Knox Street
Morrison, Illinois 61270

OPERATOR
Waste Management of Illinois, Inc.
Attn: Mr. Joshua Hey
18762 Lincoln Road
Morrison, Illinois 61270

Re: 1950350014 -- Whiteside County
Prairie Hill RDF (Leachate STPR)
Log No. 2024-014
Permit Storage/Treatment 807 File – 03R
Permit Denial

Dear Mr. Renner and Mr. Hey:

This will acknowledge receipt of your permit application to accept offsite leachate from other Waste Management operated facilities for treatment in the leachate evaporator at the above-referenced solid waste management site, dated January 12, 2024 and March 19, 2024, and received by the Illinois EPA on January 17, 2024 and March 20, 2024.

Your permit application to accept leachate from other Waste Management facilities for disposal in the leachate evaporator is denied.

You have failed to provide proof that granting this permit would not result in violations of the Illinois Environmental Protection Act (Act). Section 39(a) of the Act [415 ILCS 5/39(a)] requires the Illinois EPA to provide the applicant with specific reasons for the denial of permit. The following reason(s) are given:

The Illinois Environmental Protection Act (Act), Section 3.330(b)(3) states that a new pollution control facility is "a permitted pollution control facility requesting approval to store, dispose of, transfer or incinerate, for the first time, any special or hazardous waste." Prairie Hill Landfill is proposing using a treatment facility (leachate evaporator) that would be accepting leachate, which is a special waste, from other facilities for the first time. Therefore, proof of local siting approval for a new treatment facility, granted by the County of Whiteside, shall need to be submitted to the Illinois EPA before the leachate evaporator can be approved.

The applicant may appeal this final decision to the Illinois Pollution Control Board pursuant to Section 40 of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the applicant and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the request for an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276
217/782-5544

For information regarding the filing of an appeal, please contact:

Illinois Pollution Control Board, Clerk
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
312/814-3620

Should you wish to reapply or have any questions regarding this application, please contact Carlos Khairallah at 217/557-1435.

Sincerely,

Jacqueline M. Cooperider, P.E.
Permit Section Manager
Bureau of Land

JMC:TWH:CGK\1950350014-STPR-2024014DEOP-2024014-Denial

cc: Joshua D. Hey, P.E. – Waste Management of Illinois, Inc.