



Florida Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

December 8, 1993

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. James A. Waters
Group Vice President
Waste Management of North America
500 Cypress Creek Road, Suite 300
Fort Lauderdale, Florida 33309

Dear Mr. Waters:

Attached is one copy of the revised Technical Evaluation and Preliminary Determination and proposed permit to construct a flare system at the City of Medley Sanitary Landfill and Recycling Center. The Medley Landfill is located at 9350 N.W. 89th Street, Medley, Dade County, Florida.

These documents have been modified based on information contained in Mr. Berg's letter received November 18, 1993, concerning calculated SO₂ emissions, and comments received on the earlier drafts from Mr. Berg requesting clarification of certain specific conditions in the draft permit.

Please publish the attached "Notice of Intent to Issue" in the legal advertisement section of a newspaper of general circulation in the area affected, and submit the proof of publication to the Department within seven days of publication, along with any written comments you wish to have considered concerning the Department's proposed action, to Mr. Preston Lewis of the Bureau of Air Regulation.

Sincerely,

C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

CHF/TC/bjb

Attachments

cc: I. Goldman, SE District, FDEP
P. Wong, Dade County Department of
Environmental Resources Management
J. Harper, EPA

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CERTIFIED MAIL

In the Matter of an
Application for Permit by:

DEP File No. AC 13-218495
Dade County

Waste Management of North America
500 Cypress Creek Road, Suite 300
Fort Lauderdale, Florida 33309

INTENT TO ISSUE

The Department of Environmental Protection gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Waste Management of North America, applied on September 1, 1992, to the Department of Environmental Protection for a permit to construct a flare for the collection and disposal of active gases from extraction wells, at the City of Medley Sanitary Landfill and Recycling Center, located at 9350 N.W. 89th Street, Medley, Dade County, Florida.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes and Florida Administrative Code (F.A.C.) Chapters 17-212 and 17-4. The project is not exempt from permitting procedures. The Department has determined that an air construction permit is required for the proposed work.

Pursuant to Section 403.815, Florida Statutes and Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time only within 30 days in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of their receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this intent. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this intent in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a

waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this INTENT TO ISSUE and all copies were mailed by certified mail before the close of business on 12/17/93 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Barbara J. Bentwell 12/17/93
Clerk Date

Copies furnished to:

- I. Goldman, SE District, FDEP
- P. Wong, Dade County Department of Environmental Resources Management
- J. Harper, EPA
- J. Waters, Waste Management of North America

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF INTENT TO ISSUE PERMIT

The Department of Environmental Protection gives notice of its intent to issue a permit to Waste Management of North America, 500 Cypress Creek Road, Suite 300, Fort Lauderdale, Florida 33309 to construct a flare for the collection and disposal of active gases from extraction wells at the City of Medley Sanitary Landfill and Recycling Center, located at 9350 N.W. 89th Street, Medley, Dade County, Florida. The calculated emissions from this source are:

<u>Pollutant</u>	<u>Emission Rate</u> <u>Lb./Hr.</u>	<u>Tons/Year</u>
NOx	2.3	10.0
CO	55.7	244.0
SO ₂	8.02	35.1
PM ₁₀	Trace	Trace
VOC	Trace	Trace

These emissions impacts will not violate any ambient air quality standards. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of

the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Protection
Bureau of Air Regulation
111 S. Magnolia Drive, Suite 4
Tallahassee, Florida 32301

Dade County Department of Environmental
Resources Management
Metro Dade Government Center
111 Northwest First Street, Suite 1310
Miami, Florida 33128-1971

Department of Environmental Protection
Southeast District Office
1900 S. Congress Avenue, Suite A
West Palm Beach, Florida 33406

Any person may send written comments on the proposed action to Mr. Preston Lewis at the Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

Technical Evaluation
and
Preliminary Determination

Waste Management of North America
City of Medley Landfill Flare
Dade County, Florida

Permit Number: AC 13-218495

Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation

December 8, 1993

I. Application

A. Applicant

James A. Waters, Group Vice President
Waste Management of North America
500 Cypress Creek Road, Suite 300
Fort Lauderdale, FL 33309

B. Project and Location

Waste Management of North America applied for a construction permit on September 1, 1992, to install a flare for the collection and disposal of all active gases (primarily methane, CH₄) at the City of Medley Sanitary Landfill and Recycling Center. The application was deemed complete on August 10, 1993. An Intent to Issue a Construction Permit was sent to the applicant on September 20, 1993. This Technical Evaluation and Preliminary Determination includes revisions to the calculated SO₂ emissions specified in the original document, based on new information provided by the applicant subsequent to the September correspondence. This facility is located at 9350 N.W. 89th Street, Medley, Dade County, Florida. The source Latitude is 25°51'31"N, Longitude is 80°21'03"W.

The requirement for the installation of the gas collection system is a specific condition (No. 22) of Florida Department of Environmental Protection Solid Waste Permit No. SC13-177974, held by the applicant.

C. Facility Category

The SIC Code is 4953 and the SCC Code is 5-02-006-01.

II. Project Description

Currently, the gas collection system at the City of Medley Sanitary Landfill and Recycling Center consists of 48 existing wells. It is planned that the wells will be manifolded together and routed to the flare where the gas will be burned to oxidize potential odor causing constituents, and destroy the potentially explosive gases. It is also expected that additional wells will be installed as the landfill expands.

It is estimated that gas flow from each of the existing wells will equal 38 standard cubic feet per minute (scfm), resulting in a maximum potential total flow of 1824 scfm for the system as it exists today. When operational, the flow of gas through the flare will be limited, using volumetric flow controls, to a maximum rate of 1250 scfm. Design limit of the flare (hardware) is set at 3210 scfm maximum. Flame temperature will normally be operated at 1400° F, minimum. Flare tip velocity, assuming 1250 scfm gas flow, is computed at 21.7 ft./sec.

The flare system to be installed is manufactured by LFG Specialities, Inc., with the model name OAH utility "candle type" flare, and model number CF143I12. The system shall conform to all specifications described in Proposal Document Number 99103A, submitted as part of the permit application by Waste Management of North America.

III. Source Impact Analysis

A. Expected Pollutants

The operation of the flare treating the gas from the extraction wells will produce emissions consisting of the normal products of combustion, nitrogen dioxide (NO_x), carbon monoxide (CO), sulfur dioxide (SO₂), particulate matter (PM₁₀) and volatile organic compounds (VOC).

B. Calculated Emissions

The calculated emissions from this source are:

<u>Pollutant</u>	<u>Emission Rate</u>	
	<u>lb./hour</u>	<u>tons/year</u>
NO _x	2.3	10.0
CO	55.7	244.0
SO ₂	8.02	35.1
PM ₁₀	trace	trace
VOC	trace	trace

IV. Rule Applicability

The City of Medley Sanitary Landfill and Recycling Center started solid waste disposal operations in the mid-1950's. It is located in Dade County, an area designated nonattainment (moderate) for ozone Rule (17-275.410), F.A.C., and attainment for the other criteria pollutants Rule (17-275.400), F.A.C.

Sanitary landfills are not listed in Table 212.400-1, Major Facility Categories (List of 28). This source is a minor facility because the potential to emit carbon monoxide is less than 250 tons per year (TPY), and will be permitted pursuant to Rule 17-212.300, F.A.C., Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements. This source is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes and Chapter 17-212, F.A.C. Also, this source is subject to New Source Performance Standards (NSPS) requirements of 40 CFR 60.18.

V. Technical Evaluation

The design destruction efficiency of the flare is 98%. The emissions are calculated by considering the flare operating parameters. 40 CFR 60.18 states that there shall be no visible emissions allowed from the flare, except for periods not to exceed a total of 5 minutes in any 2 consecutive hours.

To ensure continuous compliance, this flare shall be equipped with a gas flow monitor and temperature recorder.

Prior to placing the flare in service, the pilot gas for the flare shall be fired by propane. Once fired, the flare shall be sustained by the landfill gas alone.

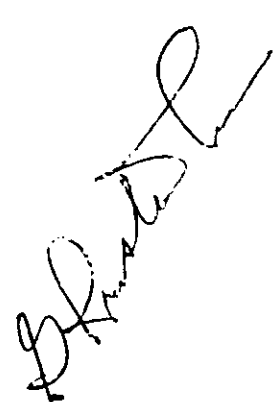
Objectionable odors caused by this source are prohibited.

VI. Air Quality Impact Analysis

From a technical review of the application, the Department of Environmental Protection has determined that the construction and operation of this source will not have a detrimental impact on the State of Florida's ambient air quality.

VII. Summary And Conclusion

Based on information provided by Waste Management of North America, the Department has reasonable assurance that the proposed construction/installation of a flare at the City of Medley Sanitary Landfill and Recycling Center, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, Prevention of Significant Deterioration (PSD) increment, or any other technical provisions of Chapter 17-212 of the Florida Administrative Code.

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To ensure continuous compliance, this flare shall be equipped with a gas flow monitor and temperature recorder.

Prior to placing the flare in service, the pilot gas for the flare shall be fired by propane. Once fired, the flare shall be sustained by the landfill gas alone.

Objectionable odors caused by this source are prohibited.

VI. Air Quality Impact Analysis

From a technical review of the application, the Department of Environmental Protection has determined that the construction and operation of this source will not have a detrimental impact on the State of Florida's ambient air quality.

VII. Summary And Conclusion

Based on information provided by Waste Management of North America, the Department has reasonable assurance that the proposed construction/installation of a flare at the City of Medley Sanitary Landfill and Recycling Center, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, Prevention of Significant Deterioration (PSD) increment, or any other technical provisions of Chapter 17-212 of the Florida Administrative Code.

A handwritten signature in black ink, located in the bottom right corner of the page. The signature is cursive and appears to read "D. H. [unclear]".



Florida Department of Environmental Protection

Twin Towers Office Building

2600 Blair Stone Road

Tallahassee, Florida 32399-2400

Virginia B. Wetherell

Secretary

Lawton Chiles

Governor

PERMITTEE:

Waste Management of North America
500 Cypress Creek Road, Suite 300
Fort Lauderdale, Florida 33309

Permit Number: AC 13-218495

**Expiration Date: December 1,
1994**

County: Dade

**Latitude/Longitude: 25°51'31"N
80°21'03"W**

**Project: City of Medley
Sanitary Landfill
and Recycling Center**

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-212 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and specifically described as follows:

For the construction of a flare system at the City of Medley Sanitary Landfill and Recycling Center. The UTM coordinates of this site are Zone 17, East 565.04 KM, North 2860.02 KM. Gas collected from the extraction wells is disposed of through an LFG Specialities, Inc. "candle type" flare.

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Operate/Construct Air Pollution Source, DEP Form 17-1.202(1), received September 1, 1992.
2. Department's letter dated September 30, 1992.
3. Ms. Pisatowski's letter received October 22, 1992.
4. Department's letter dated November 13, 1992.
5. Ms. Pisatowski's letter received December 7, 1992.
6. Ms. Pisatowski's letter received December 21, 1992.
7. Department's letter dated December 22, 1992.
8. Ms. Pisatowski's letter received February 5, 1993.
9. Department's letter dated February 26, 1993.
10. Mr. Dormier's letter received April 14, 1993.
11. Department's letter dated May 4, 1993.
12. Mr. Berg's letter received July 6, 1993.
13. Department's letter dated July 21, 1993.
14. Mr. Berg's letter received August 10, 1993.
15. Mr. Berg's letter received October 18, 1993.
16. Mr. Berg's letter received November 18, 1993.

PERMITTEE:
**Waste Management of North
America**

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. A description of and cause of non-compliance; and
- b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- (X) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the dates analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. This source shall be allowed to operate continuously (i.e., 8760 hours/year).

2. The utility flare system shall be operated so that the flame temperature is always at or above 1400°F. The system shall be calibrated such that if the flame temperature is less than 1400°F, the system will automatically shut down.

3. There shall be no visible emissions from the flare, except for periods not to exceed a total of five minutes during any two consecutive hours.

4. For inventory purposes, pollutant emission rates from the flare are:

	<u>Lb./Hour</u>	<u>Tons/Year</u>
NO _x	2.3	10.0
SO ₂	8.02	35.1
PM ₁₀	Trace	Trace
VOC	Trace	Trace

5. This source shall meet the requirements of 40 CFR 60.18, and Chapters 17-212 and 17-4, F.A.C.

6. Maximum allowable emission rates of carbon monoxide (CO) are 55.7 pounds per hour and 244.0 tons per year. These limitations are accepted by the permittee to avoid the otherwise applicable requirements of New Source Review - Prevention of Significant Deterioration (PSD), Rule 17-212.400, F.A.C., and application of Best Available Control Technology (BACT), Rule 17.212-410, F.A.C.

PERMITTEE:
**Waste Management of North
America**

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

SPECIFIC CONDITIONS:

7. Compliance with the visible emissions standard shall be determined using EPA Reference Method 22 and shall be for the duration of 2 hours. Such tests shall be conducted within 60 days of completion of construction and initial startup operation, and annually thereafter. The required visible emissions test report shall also contain the extraction wells gas flow rate and the flare temperature data.

8. Sulfur content of the input gas to the flare shall not exceed 4.0 lbs/hour.

9. An analysis shall be performed to determine the sulfur content of input gas to the flare, by American Society for Testing and Materials (ASTM) test method, D 3246-81, prior to flare startup. Additional tests shall be performed on a yearly basis, and results included as part of the facility's Annual Operating Report.

10. Pursuant to Rule 17-296.320(2), F.A.C., objectionable odors caused by this source are prohibited.

11. Total volumetric gas flow to the flare shall be limited to 1250 SCFM.

12. Proper devices to allow the continuous measurement of the total gas flow rate from all extraction wells to the flare, and the flare flame temperature, shall be installed prior to the collection and disposal of the active landfill gases. Such devices shall be properly calibrated and maintained at all times, according to manufacturers' written instructions.

The instrument to be used to measure gas flow to the flare is an orifice plate and Dwyer Magnehelic Gauge (or equivalent). The flare flame temperature will be monitored by a Fuji Electronic MicroController (or equivalent). The checking and recording of the flow and temperature data will be performed manually, on a weekly basis.

13. The net heating value of the input gas shall be 200 BTU/SCF or greater. Compliance with this parameter shall be determined by methodology specified in paragraph f of 40 CFR 60.18. Samples shall be taken, and results reported annually.

14. Actual exit velocity of the flare shall be calculated and reported on an annual basis, using methods specified in paragraph f of 40 CFR 60.18.

15. An operation and maintenance plan shall be submitted to the Department's Southeast District Office prior to the expiration date of this permit.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

SPECIFIC CONDITIONS:

16. The Southeast District and Dade County Offices shall be given at least 15 days written notice prior to compliance testing.

17. Prior to placing the flare in service, the pilot gas for the flare shall be fired by propane at 25 scfh (standard cubic feet per hour), with a maximum heat input rate of .06 MMBtu/hr. The pilot light is not required when the flame is sustained by the landfill gas alone.

18. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

19. An application for an operation permit must be submitted to the Southeast District Office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, and certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

Issued this _____ day
of _____, 1993

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**

Howard L. Rhodes, Director
Division of Air Resources
Management

To ensure continuous compliance, this flare shall be equipped with a gas flow monitor and temperature recorder.

Prior to placing the flare in service, the pilot gas for the flare shall be fired by propane. Once fired, the flare shall be sustained by the landfill gas alone.

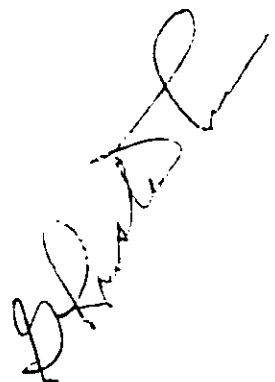
Objectionable odors caused by this source are prohibited.

VI. Air Quality Impact Analysis

From a technical review of the application, the Department of Environmental Protection has determined that the construction and operation of this source will not have a detrimental impact on the State of Florida's ambient air quality.

VII. Summary And Conclusion

Based on information provided by Waste Management of North America, the Department has reasonable assurance that the proposed construction/installation of a flare at the City of Medley Sanitary Landfill and Recycling Center, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, Prevention of Significant Deterioration (PSD) increment, or any other technical provisions of Chapter 17-212 of the Florida Administrative Code.

A handwritten signature in black ink, located in the bottom right corner of the page. The signature is stylized and appears to be a name, possibly "D. H. ...".



Florida Department of Environmental Protection

Twin Towers Office Building

2600 Blair Stone Road

Tallahassee, Florida 32399-2400

Virginia B. Wetherell

Secretary

Lawton Chiles

Governor

PERMITTEE:

**Waste Management of North America
500 Cypress Creek Road, Suite 300
Fort Lauderdale, Florida 33309**

Permit Number: AC 13-218495

**Expiration Date: December 1,
1994**

County: Dade

**Latitude/Longitude: 25°51'31"N
80°21'03"W**

**Project: City of Medley
Sanitary Landfill
and Recycling Center**

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-212 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and specifically described as follows:

For the construction of a flare system at the City of Medley Sanitary Landfill and Recycling Center. The UTM coordinates of this site are Zone 17, East 565.04 KM, North 2860.02 KM. Gas collected from the extraction wells is disposed of through an LFG Specialities, Inc. "candle type" flare.

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Operate/Construct Air Pollution Source, DEP Form 17-1.202(1), received September 1, 1992.
2. Department's letter dated September 30, 1992.
3. Ms. Pisatowski's letter received October 22, 1992.
4. Department's letter dated November 13, 1992.
5. Ms. Pisatowski's letter received December 7, 1992.
6. Ms. Pisatowski's letter received December 21, 1992.
7. Department's letter dated December 22, 1992.
8. Ms. Pisatowski's letter received February 5, 1993.
9. Department's letter dated February 26, 1993.
10. Mr. Dormier's letter received April 14, 1993.
11. Department's letter dated May 4, 1993.
12. Mr. Berg's letter received July 6, 1993.
13. Department's letter dated July 21, 1993.
14. Mr. Berg's letter received August 10, 1993.
15. Mr. Berg's letter received October 18, 1993.
16. Mr. Berg's letter received November 18, 1993.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

PERMITTEE:
**Waste Management of North
America**

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. A description of and cause of non-compliance; and
- b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- (X) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the dates analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

PERMITTEE:
**Waste Management of North
America**

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. This source shall be allowed to operate continuously (i.e., 8760 hours/year).

2. The utility flare system shall be operated so that the flame temperature is always at or above 1400°F. The system shall be calibrated such that if the flame temperature is less than 1400°F, the system will automatically shut down.

3. There shall be no visible emissions from the flare, except for periods not to exceed a total of five minutes during any two consecutive hours.

4. For inventory purposes, pollutant emission rates from the flare are:

	<u>Lb./Hour</u>	<u>Tons/Year</u>
NO_x	2.3	10.0
SO₂	8.02	35.1
PM₁₀	Trace	Trace
VOC	Trace	Trace

5. This source shall meet the requirements of 40 CFR 60.18, and Chapters 17-212 and 17-4, F.A.C.

6. Maximum allowable emission rates of carbon monoxide (CO) are 55.7 pounds per hour and 244.0 tons per year. These limitations are accepted by the permittee to avoid the otherwise applicable requirements of New Source Review - Prevention of Significant Deterioration (PSD), Rule 17-212.400, F.A.C., and application of Best Available Control Technology (BACT), Rule 17.212-410, F.A.C.

PERMITTEE:
**Waste Management of North
America**

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

SPECIFIC CONDITIONS:

7. Compliance with the visible emissions standard shall be determined using EPA Reference Method 22 and shall be for the duration of 2 hours. Such tests shall be conducted within 60 days of completion of construction and initial startup operation, and annually thereafter. The required visible emissions test report shall also contain the extraction wells gas flow rate and the flare temperature data.

8. Sulfur content of the input gas to the flare shall not exceed 4.0 lbs/hour.

9. An analysis shall be performed to determine the sulfur content of input gas to the flare, by American Society for Testing and Materials (ASTM) test method, D 3246-81, prior to flare startup. Additional tests shall be performed on a yearly basis, and results included as part of the facility's Annual Operating Report.

10. Pursuant to Rule 17-296.320(2), F.A.C., objectionable odors caused by this source are prohibited.

11. Total volumetric gas flow to the flare shall be limited to 1250 SCFM.

12. Proper devices to allow the continuous measurement of the total gas flow rate from all extraction wells to the flare, and the flare flame temperature, shall be installed prior to the collection and disposal of the active landfill gases. Such devices shall be properly calibrated and maintained at all times, according to manufacturers' written instructions.

The instrument to be used to measure gas flow to the flare is an orifice plate and Dwyer Magnehelic Gauge (or equivalent). The flare flame temperature will be monitored by a Fuji Electronic MicroController (or equivalent). The checking and recording of the flow and temperature data will be performed manually, on a weekly basis.

13. The net heating value of the input gas shall be 200 BTU/SCF or greater. Compliance with this parameter shall be determined by methodology specified in paragraph f of 40 CFR 60.18. Samples shall be taken, and results reported annually.

14. Actual exit velocity of the flare shall be calculated and reported on an annual basis, using methods specified in paragraph f of 40 CFR 60.18.

15. An operation and maintenance plan shall be submitted to the Department's Southeast District Office prior to the expiration date of this permit.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

SPECIFIC CONDITIONS:

16. The Southeast District and Dade County Offices shall be given at least 15 days written notice prior to compliance testing.

17. Prior to placing the flare in service, the pilot gas for the flare shall be fired by propane at 25 scfh (standard cubic feet per hour), with a maximum heat input rate of .06 MMBtu/hr. The pilot light is not required when the flame is sustained by the landfill gas alone.

18. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

19. An application for an operation permit must be submitted to the Southeast District Office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, and certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

Issued this _____ day
of _____, 1993

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**

Howard L. Rhodes, Director
Division of Air Resources
Management

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
 James A. Waters
 Waste Mgmt of N. America
 500 Cypress Creek Rd
 St. Lauderdale, FL
 33309

4a. Article Number
 P 872 562 646

4b. Service Type
 Registered Insured
 Certified COD
 Express Mail Return Receipt for Merchandise

7. Date of Delivery
 12/17/93

5. Signature (Addressee)
 Susie Godfrey

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 U.S. GPO: 1992-323-402 **DOMESTIC RETURN RECEIPT**

is your RETURN ADDRESS completed on the reverse side? Thank you for using Return Receipt Service

P 872 562 646



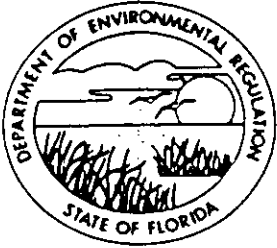
Receipt for Certified Mail

No Insurance Coverage Provided
 Do not use for International Mail
 (See Reverse)

Sent to	James A Waters
Street and No.	Waste Mgmt of N. America
P.O., State and ZIP Code	St. Lauderdale, FL
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	AC 13-218495 12-17-93

PS Form 3800, JUNE 1991

305-372-6954



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

FAX TRANSMITTAL SHEET

TO: ART BOUNAR

DATE: 1.28.94 PHONE: _____

TOTAL NUMBER OF PAGES, INCLUDING COVER PAGE: 5

FROM: TOM CASCIO

DIVISION OF AIR RESOURCES MANAGEMENT

COMMENTS: MEALEY FLARE

PHONE: 904-488-1344

FAX NUMBER: 904/922-6979

If there are any problems with this fax transmittal, please call the above phone number.



Lawton Chiles
Governor

Florida Department of Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

December 8, 1993

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. James A. Waters
Group Vice President
Waste Management of North America
500 Cypress Creek Road, Suite 300
Fort Lauderdale, Florida 33309

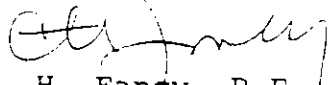
Dear Mr. Waters:

Attached is one copy of the revised Technical Evaluation and Preliminary Determination and proposed permit to construct a flare system at the City of Medley Sanitary Landfill and Recycling Center. The Medley Landfill is located at 9350 N.W. 89th Street, Medley, Dade County, Florida.

These documents have been modified based on information contained in Mr. Berg's letter received November 18, 1993, concerning calculated SO₂ emissions, and comments received on the earlier drafts from Mr. Berg requesting clarification of certain specific conditions in the draft permit.

Please publish the attached "Notice of Intent to Issue" in the legal advertisement section of a newspaper of general circulation in the area affected, and submit the proof of publication to the Department within seven days of publication, along with any written comments you wish to have considered concerning the Department's proposed action, to Mr. Preston Lewis of the Bureau of Air Regulation.

Sincerely,


C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

CHF/TC/bjb

Attachments

cc: I. Goldman, SE District, FDEP
P. Wong, Dade County Department of
Environmental Resources Management
J. Harper, EPA

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

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	<u>Lb./Hour</u>	<u>Tons/Year</u>
NO _x	2.3	10.0
SO ₂	8.02	35.1
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PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
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SPECIFIC CONDITIONS:

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Issued this _____ day
of _____, 1993

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Howard L. Rhodes, Director
Division of Air Resources
Management