

Medley Landfill & Recycling Center
9350 N.W. 89th Avenue
Medley, Florida 33178
305/883-7670

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Bureau of
Air Regulation



A Waste Management Company

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Air Regulation

March 7, 1994

Mr. Thomas Cascio
Department of Environmental Protection
Air Quality
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RE: Permit #AC 13-218495
Medley Landfill Flare

Dear Mr. Cascio:

Attached are the calculations to convert the sulfur content analysis results to pounds per hour. The sulfur content of the input gas to the flare is 0.16 lbs/hr. This is well below our limit of 4.0 lbs/hr as required by specific condition #8 of the above referenced permit.

Should you have any questions, please contact me at 305/883-7670.

Sincerely,

Ron Antevy,
Staff Engineer.

RA/mlt

Enclosure

cc: E.L. Anderson - DERM
Bryan Love - WMI Medley



Sulfur Content of Input Gas to the Flare

This analysis will assume constant maximum landfill gas flow rate.

Maximum landfill gas flow rate = 1,250 scfm

H_2S content = 22.9 parts $\text{H}_2\text{S} \div 1,000,000$ parts landfill gas x
100 = 0.00229%

Utilization Rate:

$\text{H}_2\text{S} = 1250 \text{ scfm} \times 0.00229/100 \times 34 \text{ lb/lbmol} \times 1/359 \text{ lbmol/ft}^3 \times$
 $60 \text{ min/hr} = \underline{0.16 \text{ lb/hr}}$.

Medley Landfill & Recycling Center
9540 N.W. 45th Avenue
Medley, Florida 33178
305/883-7670



A Waste Management Company

FAX COVER LETTER

DATE: 03/02/94

TIME: 10:00am

TO: Thomas Cascio

FAX NUMBER: 904-922-6979

TELEPHONE NUMBER: _____

FROM: Ron Antevy

305-883-7670

FAX NUMBER: _____

TELEPHONE NUMBER: _____

CALLER 3-4-94 - REQUEST

TOTAL NUMBER OF PAGES INCLUDING THIS SHEET 4

LBS 5 COMPUTATION

COMMENTS: _____

HR

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**Bureau of
Air Regulation**

IF YOU DO NOT RECEIVE ALL THE PAGES AS SPECIFIED, PLEASE INFORM US IMMEDIATELY. IF ANY ASSISTANCE IS NECESSARY, OUR TELEPHONE NUMBER IS LISTED BELOW.

FAX DIRECT LINE: 305-883-9758

ASSISTANCE LINE: 305-883-7670

Medley Landfill
9350 N.W. 89th Avenue
Medley, Florida 33178
Phone: (305) 883-7675



A Waste Management Company

[VIA-FAX]

March 2, 1994

Mr. Thomas Cascio
Department of Environmental Protection
Air Quality
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RE: Permit # AC 13-218495
Medley Landfill Flare

Dear Mr. Cascio:

Attached are the analysis results for the sulfur content of input gas to the flare as required by Specific Condition #9 of the above referenced permit. Flare start-up will begin on March 2, 1994.

Please contact me at (305) 883-7670 if you have any questions regarding the above.

Sincerely,

Ron Antevy
Staff Engineer

cc: E. L. Anderson - DERM
Joe Litchfield - WMI-Medley
Brian Love - WMI-Medley



CERTIFICATE OF ANALYSIS NUMBER 221383

SAMPLE IDENT.: CYLINDER # 046 GAS DATE: MARCH 01, 1994
MEDLEY LANDFILL FLARE SYSTEM

FOR: MEDLEY LANDFILL
9350 NW 89 th AVENUE
MIAMI, FL 33178

ATTN: MR. BRYAN LOVE

02/28/94
ASTM D-3246
TOTAL SULFUR BY DOHRMANN

22.9 ppm

HYDROGEN SULFIDE - NON-DETECTED

SOUTHERN PETROLEUM LABORATORIES, INC.


.....
J. C. WINFREY



CERTIFICATE OF ANALYSIS NUMBER 221382

SAMPLE IDENT.: CYLINDER # 041 GAS DATE: MARCH 01, 1994
MEDLEY LANDFILL FLARE SYSTEM

FOR: MEDLEY LANDFILL
9350 NW 89 th AVENUE
MIAMI, FL 33178

ATTN: MR. BRYAN LOVE

02/28/94
ASTM D-3246
TOTAL SULFUR BY DOHRMANN

12.7 ppm

HYDROGEN SULFIDE = NON-DETECTED

SOUTHERN PETROLEUM LABORATORIES, INC.

J. C. Winters
.....
J. C. WINTERS