

ATKINS

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March 20, 2013

Ms. Nancy Gaskin
Solid Waste Section
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637

RE: Lena Road Landfill, Manatee County
WACS ID No.: SWD-41-44795
Landfill Operation Permit No.: 39884-018-SO/01
Landfill Capacity Report for 2013

Dear Ms. Gaskin:

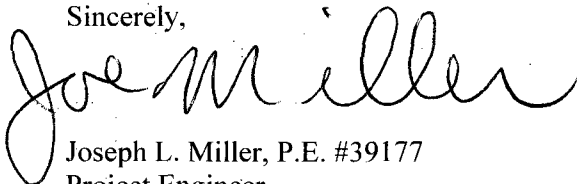
ATKINS, on behalf of Manatee County, is submitting this information required by Landfill Operation Permit Specific Condition C.13. Method and Sequence of Filling - Subpart e.

Based on the topographic map developed from the January 18, 2013 aerial photograph, and the average solid waste filling rate of 463,500 cubic yards over the last 9 years, we project the landfill has a remaining life of 31.6 years, and a landfill final closure date of 2045. Enclosed are the following:

- Spreadsheet entitled "Manatee County Lena Road Landfill – Remaining Landfill Life Estimate - 2013" dated March 20, 2013.
- Chart 1 "Plot of Cumulative Landfill Volume Consumed and Tons In place - September 9, 1991- January 18, 2013"
- Stage I, II and III Landfill topography based on the January 18, 2013 photograph
- Aerial Photograph dated January 18, 2013

The survey demonstrates that the above-grade side slopes are no greater than the design slopes, that the top elevation does not exceed the design elevation, and that all other design features and related improvements conform to the Department approved permit drawings.

Sincerely,



Joseph L. Miller, P.E. #39177
Project Engineer

Cc: Bryan White, Manatee County, w/ spreadsheet and Chart 1

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Dept. Of Environmental Protection
MAR 26 2013
Southwest District

Manatee County Lena Road Landfill
REMAINING LANDFILL LIFE ESTIMATE - 2013
MARCH 20, 2013

Landfill	Estimated Design Capacity Cubic Yards	Estimated Volume Used as of January 30, 2012 Cubic Yards	Estimated Volume Used Jan. 30, 2012 to Jan. 18, 2013 Cubic Yards	Estimated Volume Remaining as of January 18, 2013 Cubic Yards
Stage I	13,179,520	13,158,153	Note 2	-
Stage II	12,705,440	-	-	12,705,440
Stage III	6,751,640	4,446,600	384,000	1,921,040
Totals	32,636,600	17,604,753	384,000	14,626,480

Remaining Landfill Life in Years Based on Annualized Filling Rate (See Note 3)
Estimated Landfill Closure Year

31.6
2045

Notes:

1. Landfill volume change is based on an aerial photograph taken by I.F. Rooks & Associates on January 18, 2013.
2. Solid waste disposal moved from the Stage I Landfill to the Stage III Landfill on January 15, 2004.
The Stage III Landfill already had 659,000 CY of solid waste disposed of in it prior to January 15, 2004.
3. The filling rate for the Stage III Landfill between January 15, 2004 and January 18, 2013 has averaged 463,500 cubic yards per year.
This average filling rate was used to project the remaining landfill life and the estimated landfill closure year.
The average filling rate over 9 years is greater than the filling rate for the most recent year. If the trend continues the landfill life may be greater.
4. The landfill life estimate is for the Stage I, II and III landfills which have a total area of 316 acres.

