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NORTHEAST DISTRICT  
DEP-JACKSONVILLE

05/11/2010

Mr. Emerson Raulerson  
Solid Waste Section Supervisor  
Florida Department of Environmental Protection  
Northeast District  
7825 Baymeadows Way, Suite 200B  
Jacksonville, FL 32256

RE: Trail Ridge Landfill Site Life Calculations 2010  
Permit # 0013493-017-SO

Dear Mr. Raulerson:

We are enclosing a copy of Trail Ridge Landfill Site Calculation based on waste received from February 4, 2009 through February 16, 2010. The calculation is signed and sealed by Juanitta Bader Clem, P.E.

Please feel free to contact me at 904-289-9100 if you require any further information.

Sincerely,

Edward Schmalfeld, P.E.  
Site Manager

ES:kn

Enclosures:

Cc: Fred Forbes, City of Jacksonville



**England-Thims & Miller, Inc.**

14775 Old St. Augustine Road • Jacksonville, Florida 32258  
tel 904.642.8990 • fax 904.646.9485 • www.etm-inc.com

Received  
MAY 10 2010  
Trail Ridge Landfill

**PRINCIPALS**

Douglas C. Miller, P.E., CEO  
N. Hugh Mathews, P.E., President  
Joseph A. Tarver, Exec. V.P.  
Juanitta Bader Clem, P.E., V.P.  
Scott A. Wild, P.E., PSM, V.P.  
Samuel R. Crissinger, CFO, V.P.  
Robert A. Mizell, Jr., P.E., V.P.  
Thomas N. Fallin, P.E., V.P.  
Buckley K. Williams, C.C.C.A., V.P.  
K.T. Peter Ma, P.E., V.P.

**EMERITUS**

James E. England, P.E.  
Robert E. Thims

May 6, 2010

Mr. Greg Mathes  
Trail Ridge Landfill, Inc.  
5110 U.S. Highway 301  
Baldwin, Florida 32234

Reference: Trail Ridge Landfill  
ET&M No. 05-191

Dear Greg:

Pursuant to your request, please find herewith the annual site life evaluation for Trail Ridge Landfill, for February 4, 2009 through February 16, 2010.

We hope that this information will be helpful to you. If you have any questions or require additional information, please feel free to give me a call.

Sincerely,

**ENGLAND, THIMS & MILLER, INC.**

*Juanitta Bader Clem*  
Juanitta Bader Clem, P. E.  
Vice President

5/6/2010

Attachment

cc: Brian Dolihite

G:\LANDFILL\TRAIL\VOLUME\SITE LIFE-10 SYR AVG.doc

ENGINEERS • PLANNERS • SURVEYORS • GIS • LANDSCAPE ARCHITECTS

JACKSONVILLE • PANAMA CITY

CA-00002584 LC-0000316

**TRAIL RIDGE LANDFILL**  
**SITE LIFE CALCULATIONS**  
**2010**

**Remaining Airspace:**

Remaining Airspace as of February 16, 2010 is 7,492,455 cubic yards\*.

Average Waste Density = 0.82 tons/CY\*

**Annual Tonnage Calculations**

Annual Tonnage based on waste received from 2005 to 2009:

$$\frac{1,014,724 (2005) + 952,516 (2006) + 843,642 (2007) + 792,831 (2008) + 745,210 (2009)}{5 \text{ years}}$$

= 869,785 tons/year (5 year average)


**Remaining Site Life:**

Remaining Site Life =  $\frac{\text{Remaining Airspace} \times \text{Average Waste Density}}{\text{Annual Tonnage}}$

$$= \frac{7,492,455 \text{ CY} \times 0.82 \text{ tons/CY}}{869,785 \text{ tons per year}} = 7.06 \text{ years}$$

*Note: Site Life Calculations are based on annual tonnage receipts and cumulative density measured to date;  
Future changes in the actual waste receipts and average waste density will affect Remaining Site Life.*

**\* Source: Trail Ridge Landfill / Waste Management, 2010 Airspace Report**

  
Juanitta Bader Clem, P.E. # 43245  
5/6/2010