

# Transmittal Letter

August 17, 2012

**Kelner Engineering Inc.**  
1050 Northeast 10<sup>th</sup> Place  
Gainesville, Florida 32601  
P: (352) 672-8060 F: (866) 722-0656  
info@kelnerinc.com

Dept. Of Environmental Protection  
**AUG 17 2012**  
Southwest District

**To:** Florida Department of Environmental Protection  
Southwest District  
13051 North Telecom Park  
Temple Terrace, Florida 33637-0926

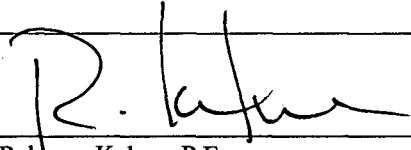
**Attention:** Cindy Zhang-Torres, P.E.

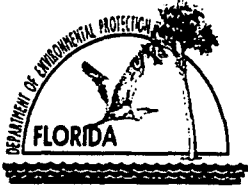
**Re:** ACMS Class I Landfill  
Initial Title V Air Operations Permit  
Application

**Job Number:** 1400-04

We are sending you			
<input checked="" type="checkbox"/> Attached	<input type="checkbox"/> Under Separate Cover the following:		
<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	<input checked="" type="checkbox"/> Other: Permit Application
<input type="checkbox"/> Copy of Letter	<input type="checkbox"/> Change Order	<input type="checkbox"/> Samples	
<input type="checkbox"/> Report	<input type="checkbox"/> Reproducible	<input type="checkbox"/> Specification	

Copies	Date	Description
2	August 17, 2012	Initial Title V Air Operations Permit Application
2	August 17, 2012	Responsible Official Notification Form

These are transmitted as checked below	
<input type="checkbox"/> For Approval	<input checked="" type="checkbox"/> For Review and Comment
<input type="checkbox"/> For Signature	<input type="checkbox"/> For Your Information
<input type="checkbox"/> As Requested	<input type="checkbox"/> For Your File
<b>Comments:</b>	
<b>Copy to:</b>	
Charlie Dean, ACMS	 Rebecca Kelner, P.E.



# Department of Environmental Protection

## Division of Air Resource Management

### RESPONSIBLE OFFICIAL NOTIFICATION FORM

**Note: A responsible official is not necessarily a designated representative under the Acid Rain Program. To become a designated representative, submit a certificate of representation to the U.S. Environmental Protection Agency (EPA) in accordance with 40 CFR Part 72.24.**

Dept. of Environmental Protection  
**AUG 17 2012**  
Southwest District

**Identification of Facility**

1. Facility Owner/Company Name: <b>A.C.M.S., Inc.</b>	
2. Site Name: <b>A.C.M.S. Class I Landfill</b>	3. County: <b>Sumter</b>
4. Title V Air Operation Permit/Project No. <i>(leave blank for initial Title V applications):</i>	

**Notification Type** *(Check one or more)*

<input checked="" type="checkbox"/> <b>INITIAL:</b>	Notification of responsible officials for an initial Title V application.
<input type="checkbox"/> <b>RENEWAL:</b>	Notification of responsible officials for a renewal Title V application.
<input type="checkbox"/> <b>CHANGE:</b>	Notification of change in responsible official(s). Effective date of change in responsible official(s) _____

**Primary Responsible Official**

1. Name and Position Title of Responsible Official: <b>Charles Dean, Jr., President</b>	
2. Responsible Official Mailing Address: Organization/Firm: <b>A.C.M.S., Inc.</b> Street Address: <b>PO Box 949</b> City: <b>Lake Panasoffkee</b> State: <b>Florida</b> Zip Code: <b>33538</b>	
3. Responsible Official Telephone Numbers: Telephone: <b>(352) 303 - 8828</b> Fax: <b>(352) 568 - 0110</b>	
4. Responsible Official Qualification <i>(Check one or more of the following options, as applicable):</i> <input checked="" type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.	
5. Responsible Official Statement:  <i>I, the undersigned, am a responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this notification. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this notification are true, accurate and complete. Further, I certify that I have authority over the decisions of all other responsible officials, if any, for purposes of Title V permitting.</i>	
 _____ Signature	<b>8/10/12</b> _____ Date

**Additional Responsible Official**

1. Name and Position Title of Responsible Official:
2. Responsible Official Mailing Address: Organization/Firm: Street Address: City: State: Zip Code:
3. Responsible Official Telephone Numbers: Telephone: ( ) - Fax: ( ) -
4. Responsible Official Qualification ( <i>Check one or more of the following options, as applicable</i> ): <input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.

**Additional Responsible Official**

1. Name and Position Title of Responsible Official:
2. Responsible Official Mailing Address: Organization/Firm: Street Address: City: State: Zip Code:
3. Responsible Official Telephone Numbers: Telephone: ( ) - Fax: ( ) -
4. Responsible Official Qualification ( <i>Check one or more of the following options, as applicable</i> ): <input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.

**A.C.M.S. CLASS I LANDFILL  
INITIAL TITLE V AIR OPERATIONS  
PERMIT APPLICATION**

Dept. Of Environmental Protection  
**AUG 17 2012**  
Southwest District

*Prepared for:*

**A.C.M.S., INC.**  
P.O. Box 949  
Lake Panasoffkee, Florida 33538

*Presented to:*

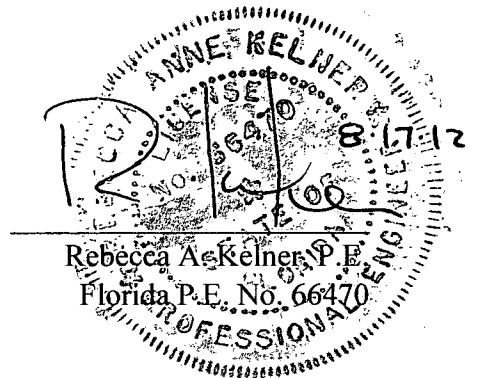
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
SOUTHWEST DISTRICT  
13051 N. Telecom Parkway  
Temple Terrace, Florida 33637**

*Prepared by:*

**KELNER ENGINEERING**  
1050 NE 10<sup>th</sup> Place  
Gainesville, Florida 32601

Certificate of Authorization #28895

August 2012



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**PART I**

**PERMIT APPLICATION REPORT**

# A.C.M.S. CLASS I (MSW) LANDFILL AIR OPERATIONS PERMIT APPLICATION

## 1.0 INTRODUCTION

The A.C.M.S. Class I Landfill (Landfill) is a new municipal solid waste (MSW) landfill located in Sumter County, Florida. The Landfill is currently under construction. Construction of the lined cells began on May 21, 2012 and is scheduled to be completed the fourth quarter of 2012. The Landfill is not anticipated to receive waste until the first quarter of 2013.

The permitted design capacity of the Landfill (per Solid Waste Construction Permit 161263-005-SC/01) is greater than 2.5 million megagrams and the Landfill is subject to regulation under the New Source Performance Standards (NSPS) for Landfills (40 CFR Subpart WWW) 90 days after construction commences. This application for an initial Title V Air Operations Permit is submitted to incorporate the NSPS and meet the permitting requirements under Rule 62-213, Florida Administrative Code (FAC).

The Landfill is a new site under construction with no waste in place. The Landfill is permitted to accept Class I waste, which may include the following waste types:

- Municipal solid waste
- Commercial waste
- Incinerator / WTE ash
- Water treatment sludge
- Air treatment sludge
- Agricultural waste
- Asbestos
- C&D debris
- Shredded tires
- Industrial waste
- Industrial and domestic sludge

Landfill gas is generated by the anaerobic degradation of the waste and methane (CH<sub>4</sub>) and carbon dioxide (CO<sub>2</sub>) are the primary constituents of landfill gas. Landfill gas also contains a small amount of non methane organic compounds (NMOC), including hazardous air pollutants (HAP) and volatile organic compounds (VOC). Other emissions associated with landfills include combustion byproducts from the control (combustion) of landfill gas, including carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), and sulfur dioxide (SO<sub>2</sub>). Particulate matter (PM) emissions associated with fugitive dust is also emitted at solid waste facilities. Because the ACMS Landfill is a new facility, landfill gas is not collected and controlled; therefore combustion byproducts are not emitted at this facility. Table 1 summarizes the maximum annual air pollutant emissions for the Landfill over the permitting period.

**TABLE 1**  
**SUMMARY OF ACMS CLASS I LANDFILL EMISSIONS**

Air Pollutant/LFG Constituent	Maximum Mass Emission Rates ACMS Class I Landfill Subcells 1 – 4 5 <sup>th</sup> year of operation (end of 2017)	
	(Tons/yr)	(MG/yr)
NMOC	41.7	37.9
VOC	16.3	14.8
HAPS (total)	7.7	8.5
HAPS (single)	2.7 (toluene)	2.9 (toluene)
PM2.5	0.8	0.7
PM10	8.3	7.5



## 2.0 LANDFILL EMISSIONS

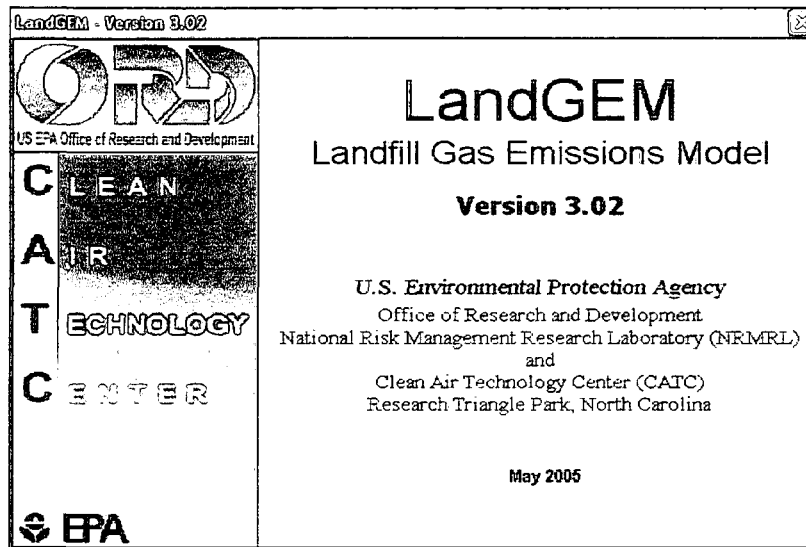
The pollutant emissions shown in Table 1 were calculated using the U.S. EPA's *Landfill Gas Emissions Model* (LandGEM) and equations in the US EPA's *AP-42 Compilation of Air Pollutant Emission Factors*. NMOC, VOC, and HAPs were calculated in accordance with Section 2.4 of the AP-42 (1998) and PM emissions from unpaved road traffic were calculated in accordance with Section 13.2.2 (2006). The LandGEM model uses a first-order decay equation to predict landfill gas and pollutant generation based on the amount and age of waste in place. The values recommended in AP-42 for methane generation potential ( $L_0=100\text{m}^3/\text{MG}$ ), methane generation rate constant ( $k=0.04$ ), and NMOC concentration ( $C_{\text{NMOC}}=600$  ppmv hexane) were used in the model along with waste acceptance estimates from the Landfill Solid Waste Permit Application.

The LandGEM model was run for the first 5 years of landfill operation; because LandGEM calculates emissions based on waste-in-place at the beginning of the year, the emissions occurring at the end of 2017 are associated with year 5 of the model.

Since site specific data for HAP and VOC are not available for the Landfill. The VOC generation is assumed to be 39 percent of NMOC generation, per Section 2.4, Table 4.2-2 (1998) of AP-42, and the default concentration values from AP-42, Section 2.4, Table 2.4-1 (1998) were used for HAP emissions. The results of the LandGEM model are provided in Attachment 1.

Fugitive dust emissions from Landfill unpaved roads were calculated in accordance with AP-42, Section 13.2.2. The emissions are estimated based on the annual waste acceptance rates from the solid waste permit application and assumed traffic loads. The main road from the site entrance to the disposal area is paved; therefore the actual haul distance on unpaved roads is minimal. PM calculations are provided in Attachment 2.

**ATTACHMENT 1**  
**LANDGEM RESULTS**



## Summary Report

**Landfill Name or Identifier:** ACMS CLASS I LANDFILL - NMOC RATE REPORT

**Date:** Thursday, August 16, 2012

**Description/Comments:**

**About LandGEM:**

First-Order Decomposition Rate Equation:

$$Q_{CH_4} = \sum_{i=1}^n \sum_{j=0.1}^1 kL_o \left( \frac{M_i}{10} \right) e^{-kt_{ij}}$$

Where,

$Q_{CH_4}$  = annual methane generation in the year of the calculation ( $m^3/year$ )

$i$  = 1-year time increment

$n$  = (year of the calculation) - (initial year of waste acceptance)

$j$  = 0.1-year time increment

$k$  = methane generation rate ( $year^{-1}$ )

$L_o$  = potential methane generation capacity ( $m^3/Ma$ )

$M_i$  = mass of waste accepted in the  $i^{th}$  year ( $Ma$ )

$t_{ij}$  = age of the  $j^{th}$  section of waste mass  $M_i$  accepted in the  $i^{th}$  year ( $decimal\ years$  . e.g. . 3.2 years)

LandGEM is based on a first-order decomposition rate equation for quantifying emissions from the decomposition of landfilled waste in municipal solid waste (MSW) landfills. The software provides a relatively simple approach to estimating landfill gas emissions. Model defaults are based on empirical data from U.S. landfills. Field test data can also be used in place of model defaults when available. Further guidance on EPA test methods, Clean Air Act (CAA) regulations, and other guidance regarding landfill gas emissions and control technology requirements can be found at <http://www.epa.gov/ttnatw01/landfill/landflpg.html>.

LandGEM is considered a screening tool — the better the input data, the better the estimates. Often, there are limitations with the available data regarding waste quantity and composition, variation in design and operating practices over time, and changes occurring over time that impact the emissions potential. Changes to landfill operation, such as operating under wet conditions through leachate recirculation or other liquid additions, will result in generating more gas at a faster rate. Defaults for estimating emissions for this type of operation are being developed to include in LandGEM along with defaults for conventional landfills (no leachate or liquid additions) for developing emission inventories and determining CAA applicability. Refer to the Web site identified above for future updates.

**Input Review**

**LANDFILL CHARACTERISTICS**

Landfill Open Year  
 Landfill Closure Year (with 80-year limit) **5**  
 Actual Closure Year (without limit) **5**  
 Have Model Calculate Closure Year? **No**  
 Waste Design Capacity *megagrams*

**MODEL PARAMETERS**

Methane Generation Rate, k **0.040** *year<sup>-1</sup>*  
 Potential Methane Generation Capacity, L<sub>0</sub> **100** *m<sup>3</sup>/Mg*  
 NMOC Concentration **600** *ppmv as hexane*  
 Methane Content **50** *% by volume*

**GASES / POLLUTANTS SELECTED**

Gas / Pollutant #1: **Total landfill gas**  
 Gas / Pollutant #2: **NMOC**  
 Gas / Pollutant #3: **Methane**  
 Gas / Pollutant #4: **Carbon dioxide**

**WASTE ACCEPTANCE RATES**

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
0	455,965	501,562	0	0
1	469,645	516,609	455,965	501,562
2	483,734	532,107	925,610	1,018,171
3	498,245	548,070	1,409,344	1,550,278
4	513,193	564,512	1,907,589	2,098,348
5	0	0	2,420,782	2,662,860
6	0	0	2,420,782	2,662,860
7	0	0	2,420,782	2,662,860
8	0	0	2,420,782	2,662,860
9	0	0	2,420,782	2,662,860
10	0	0	2,420,782	2,662,860
11	0	0	2,420,782	2,662,860
12	0	0	2,420,782	2,662,860
13	0	0	2,420,782	2,662,860
14	0	0	2,420,782	2,662,860
15	0	0	2,420,782	2,662,860
16	0	0	2,420,782	2,662,860
17	0	0	2,420,782	2,662,860
18	0	0	2,420,782	2,662,860
19	0	0	2,420,782	2,662,860
20	0	0	2,420,782	2,662,860
21	0	0	2,420,782	2,662,860
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23	0	0	2,420,782	2,662,860
24	0	0	2,420,782	2,662,860
25	0	0	2,420,782	2,662,860
26	0	0	2,420,782	2,662,860
27	0	0	2,420,782	2,662,860
28	0	0	2,420,782	2,662,860
29	0	0	2,420,782	2,662,860
30	0	0	2,420,782	2,662,860
31	0	0	2,420,782	2,662,860
32	0	0	2,420,782	2,662,860
33	0	0	2,420,782	2,662,860
34	0	0	2,420,782	2,662,860
35	0	0	2,420,782	2,662,860
36	0	0	2,420,782	2,662,860
37	0	0	2,420,782	2,662,860
38	0	0	2,420,782	2,662,860
39	0	0	2,420,782	2,662,860

## WASTE ACCEPTANCE RATES (Continued)

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
40	0	0	2,420,782	2,662,860
41	0	0	2,420,782	2,662,860
42	0	0	2,420,782	2,662,860
43	0	0	2,420,782	2,662,860
44	0	0	2,420,782	2,662,860
45	0	0	2,420,782	2,662,860
46	0	0	2,420,782	2,662,860
47	0	0	2,420,782	2,662,860
48	0	0	2,420,782	2,662,860
49	0	0	2,420,782	2,662,860
50	0	0	2,420,782	2,662,860
51	0	0	2,420,782	2,662,860
52	0	0	2,420,782	2,662,860
53	0	0	2,420,782	2,662,860
54	0	0	2,420,782	2,662,860
55	0	0	2,420,782	2,662,860
56	0	0	2,420,782	2,662,860
57	0	0	2,420,782	2,662,860
58	0	0	2,420,782	2,662,860
59	0	0	2,420,782	2,662,860
60	0	0	2,420,782	2,662,860
61	0	0	2,420,782	2,662,860
62	0	0	2,420,782	2,662,860
63	0	0	2,420,782	2,662,860
64	0	0	2,420,782	2,662,860
65	0	0	2,420,782	2,662,860
66	0	0	2,420,782	2,662,860
67	0	0	2,420,782	2,662,860
68	0	0	2,420,782	2,662,860
69	0	0	2,420,782	2,662,860
70	0	0	2,420,782	2,662,860
71	0	0	2,420,782	2,662,860
72	0	0	2,420,782	2,662,860
73	0	0	2,420,782	2,662,860
74	0	0	2,420,782	2,662,860
75	0	0	2,420,782	2,662,860
76	0	0	2,420,782	2,662,860
77	0	0	2,420,782	2,662,860
78	0	0	2,420,782	2,662,860
79	0	0	2,420,782	2,662,860

**Pollutant Parameters**

<b>Gas / Pollutant Default Parameters:</b>				<b>User-specified Pollutant Parameters:</b>	
	Compound	Concentration (ppmv)	Molecular Weight	Concentration (ppmv)	Molecular Weight
<b>Gases</b>	Total landfill gas		0.00		
	Methane		16.04		
	Carbon dioxide		44.01		
	NMOC	4,000	86.18		
<b>Pollutants</b>	1,1,1-Trichloroethane (methyl chloroform) - HAP	0.48	133.41		
	1,1,2,2-Tetrachloroethane - HAP/VOC	1.1	167.85		
	1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	2.4	98.97		
	1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	0.20	96.94		
	1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	0.41	98.96		
	1,2-Dichloropropane (propylene dichloride) - HAP/VOC	0.18	112.99		
	2-Propanol (isopropyl alcohol) - VOC	50	60.11		
	Acetone	7.0	58.08		
	Acrylonitrile - HAP/VOC	6.3	53.06		
	Benzene - No or Unknown Co-disposal - HAP/VOC	1.9	78.11		
	Benzene - Co-disposal - HAP/VOC	11	78.11		
	Bromodichloromethane - VOC	3.1	163.83		
	Butane - VOC	5.0	58.12		
	Carbon disulfide - HAP/VOC	0.58	76.13		
	Carbon monoxide	140	28.01		
	Carbon tetrachloride - HAP/VOC	4.0E-03	153.84		
	Carbonyl sulfide - HAP/VOC	0.49	60.07		
	Chlorobenzene - HAP/VOC	0.25	112.56		
	Chlorodifluoromethane	1.3	86.47		
	Chloroethane (ethyl chloride) - HAP/VOC	1.3	64.52		
	Chloroform - HAP/VOC	0.03	119.39		
	Chloromethane - VOC	1.2	50.49		
	Dichlorobenzene - (HAP for para isomer/VOC)	0.21	147		
	Dichlorodifluoromethane	16	120.91		
	Dichlorofluoromethane - VOC	2.6	102.92		
	Dichloromethane (methylene chloride) - HAP	14	84.94		
	Dimethyl sulfide (methyl sulfide) - VOC	7.8	62.13		
	Ethane	890	30.07		
	Ethanol - VOC	27	46.08		

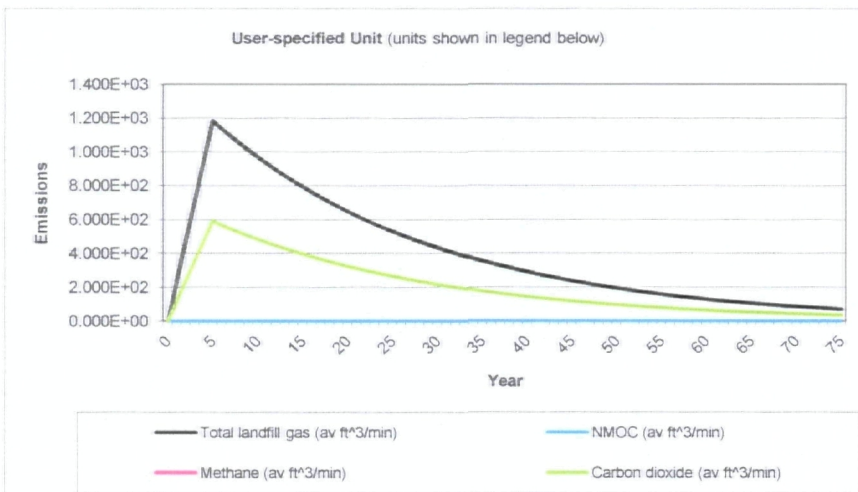
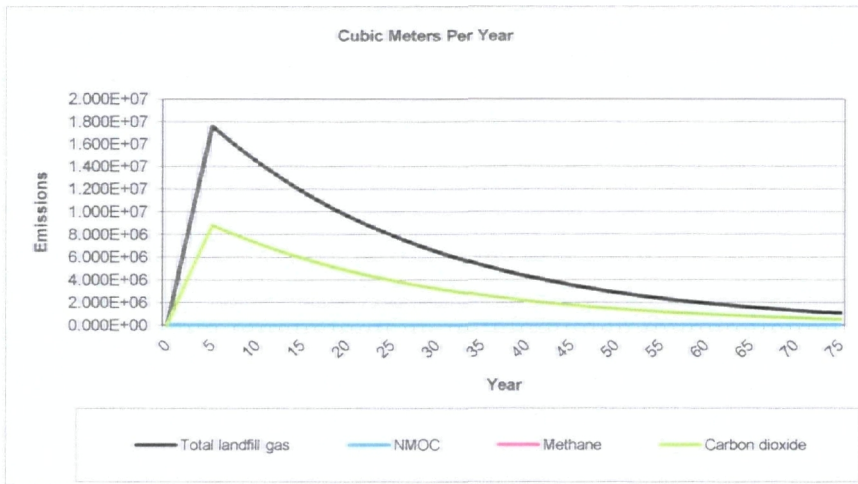
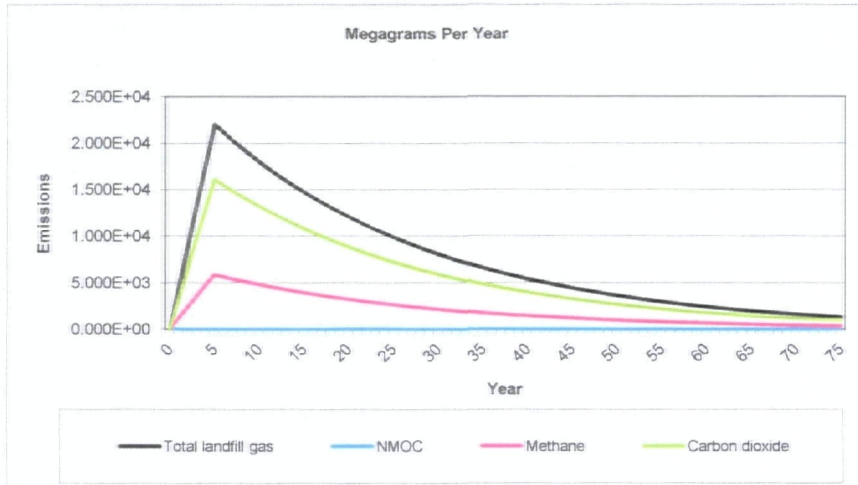
**Pollutant Parameters (Continued)**

Gas / Pollutant Default Parameters:			User-specified Pollutant Parameters:	
Compound	Concentration (ppmv)	Molecular Weight	Concentration (ppmv)	Molecular Weight
Pollutants	Ethyl mercaptan (ethanethiol) - VOC	2.3	62.13	
	Ethylbenzene - HAP/VOC	4.6	106.16	
	Ethylene dibromide - HAP/VOC	1.0E-03	187.88	
	Fluorotrichloromethane - VOC	0.76	137.38	
	Hexane - HAP/VOC	6.6	86.18	
	Hydrogen sulfide	36	34.08	
	Mercury (total) - HAP	2.9E-04	200.61	
	Methyl ethyl ketone - HAP/VOC	7.1	72.11	
	Methyl isobutyl ketone - HAP/VOC	1.9	100.16	
	Methyl mercaptan - VOC	2.5	48.11	
	Pentane - VOC	3.3	72.15	
	Perchloroethylene (tetrachloroethylene) - HAP	3.7	165.83	
	Propane - VOC	11	44.09	
	t-1,2-Dichloroethene - VOC	2.8	96.94	
	Toluene - No or Unknown Co-disposal - HAP/VOC	39	92.13	
	Toluene - Co-disposal - HAP/VOC	170	92.13	
	Trichloroethylene (trichloroethene) - HAP/VOC	2.8	131.40	
	Vinyl chloride - HAP/VOC	7.3	62.50	
	Xylenes - HAP/VOC	12	106.16	





**Graphs**



**Results**

Year	Total landfill gas			NMOC		
	(Mg/year)	(m <sup>3</sup> /year)	(av ft <sup>3</sup> /min)	(Mg/year)	(m <sup>3</sup> /year)	(av ft <sup>3</sup> /min)
0	0	0	0	0	0	0
1	4.474E+03	3.583E+06	2.407E+02	7.706E+00	2.150E+03	1.444E-01
2	8.908E+03	7.133E+06	4.793E+02	1.534E+01	4.280E+03	2.876E-01
3	1.331E+04	1.065E+07	7.159E+02	2.291E+01	6.393E+03	4.295E-01
4	1.767E+04	1.415E+07	9.508E+02	3.044E+01	8.491E+03	5.705E-01
5	2.202E+04	1.763E+07	1.185E+03	3.791E+01	1.058E+04	7.107E-01
6	2.115E+04	1.694E+07	1.138E+03	3.643E+01	1.016E+04	6.828E-01
7	2.032E+04	1.627E+07	1.093E+03	3.500E+01	9.764E+03	6.561E-01
8	1.953E+04	1.564E+07	1.051E+03	3.363E+01	9.381E+03	6.303E-01
9	1.876E+04	1.502E+07	1.009E+03	3.231E+01	9.014E+03	6.056E-01
10	1.803E+04	1.443E+07	9.698E+02	3.104E+01	8.660E+03	5.819E-01
11	1.732E+04	1.387E+07	9.318E+02	2.982E+01	8.321E+03	5.591E-01
12	1.664E+04	1.332E+07	8.952E+02	2.866E+01	7.994E+03	5.371E-01
13	1.599E+04	1.280E+07	8.601E+02	2.753E+01	7.681E+03	5.161E-01
14	1.536E+04	1.230E+07	8.264E+02	2.645E+01	7.380E+03	4.958E-01
15	1.476E+04	1.182E+07	7.940E+02	2.542E+01	7.090E+03	4.764E-01
16	1.418E+04	1.135E+07	7.629E+02	2.442E+01	6.812E+03	4.577E-01
17	1.362E+04	1.091E+07	7.330E+02	2.346E+01	6.545E+03	4.398E-01
18	1.309E+04	1.048E+07	7.042E+02	2.254E+01	6.289E+03	4.225E-01
19	1.258E+04	1.007E+07	6.766E+02	2.166E+01	6.042E+03	4.060E-01
20	1.208E+04	9.675E+06	6.501E+02	2.081E+01	5.805E+03	3.900E-01
21	1.161E+04	9.296E+06	6.246E+02	1.999E+01	5.577E+03	3.747E-01
22	1.115E+04	8.931E+06	6.001E+02	1.921E+01	5.359E+03	3.601E-01
23	1.072E+04	8.581E+06	5.766E+02	1.846E+01	5.149E+03	3.459E-01
24	1.030E+04	8.245E+06	5.540E+02	1.773E+01	4.947E+03	3.324E-01
25	9.892E+03	7.921E+06	5.322E+02	1.704E+01	4.753E+03	3.193E-01
26	9.504E+03	7.611E+06	5.114E+02	1.637E+01	4.566E+03	3.068E-01
27	9.132E+03	7.312E+06	4.913E+02	1.573E+01	4.387E+03	2.948E-01
28	8.774E+03	7.026E+06	4.720E+02	1.511E+01	4.215E+03	2.832E-01
29	8.430E+03	6.750E+06	4.535E+02	1.452E+01	4.050E+03	2.721E-01
30	8.099E+03	6.485E+06	4.358E+02	1.395E+01	3.891E+03	2.615E-01
31	7.782E+03	6.231E+06	4.187E+02	1.340E+01	3.739E+03	2.512E-01
32	7.476E+03	5.987E+06	4.023E+02	1.288E+01	3.592E+03	2.414E-01
33	7.183E+03	5.752E+06	3.865E+02	1.237E+01	3.451E+03	2.319E-01
34	6.902E+03	5.527E+06	3.713E+02	1.189E+01	3.316E+03	2.228E-01
35	6.631E+03	5.310E+06	3.568E+02	1.142E+01	3.186E+03	2.141E-01
36	6.371E+03	5.102E+06	3.428E+02	1.097E+01	3.061E+03	2.057E-01
37	6.121E+03	4.902E+06	3.293E+02	1.054E+01	2.941E+03	1.976E-01
38	5.881E+03	4.709E+06	3.164E+02	1.013E+01	2.826E+03	1.899E-01
39	5.651E+03	4.525E+06	3.040E+02	9.731E+00	2.715E+03	1.824E-01
40	5.429E+03	4.347E+06	2.921E+02	9.350E+00	2.608E+03	1.753E-01
41	5.216E+03	4.177E+06	2.806E+02	8.983E+00	2.506E+03	1.684E-01
42	5.012E+03	4.013E+06	2.696E+02	8.631E+00	2.408E+03	1.618E-01
43	4.815E+03	3.856E+06	2.591E+02	8.292E+00	2.313E+03	1.554E-01
44	4.626E+03	3.705E+06	2.489E+02	7.967E+00	2.223E+03	1.493E-01
45	4.445E+03	3.559E+06	2.391E+02	7.655E+00	2.136E+03	1.435E-01
46	4.271E+03	3.420E+06	2.298E+02	7.355E+00	2.052E+03	1.379E-01
47	4.103E+03	3.286E+06	2.208E+02	7.066E+00	1.971E+03	1.325E-01
48	3.942E+03	3.157E+06	2.121E+02	6.789E+00	1.894E+03	1.273E-01
49	3.788E+03	3.033E+06	2.038E+02	6.523E+00	1.820E+03	1.223E-01

**Results (Continued)**

Year	Total landfill gas			NMOC		
	(Mg/year)	(m <sup>3</sup> /year)	(av ft <sup>3</sup> /min)	(Mg/year)	(m <sup>3</sup> /year)	(av ft <sup>3</sup> /min)
50	3.639E+03	2.914E+06	1.958E+02	6.267E+00	1.748E+03	1.175E-01
51	3.496E+03	2.800E+06	1.881E+02	6.022E+00	1.680E+03	1.129E-01
52	3.359E+03	2.690E+06	1.807E+02	5.785E+00	1.614E+03	1.084E-01
53	3.228E+03	2.585E+06	1.737E+02	5.559E+00	1.551E+03	1.042E-01
54	3.101E+03	2.483E+06	1.668E+02	5.341E+00	1.490E+03	1.001E-01
55	2.980E+03	2.386E+06	1.603E+02	5.131E+00	1.432E+03	9.618E-02
56	2.863E+03	2.292E+06	1.540E+02	4.930E+00	1.375E+03	9.241E-02
57	2.750E+03	2.202E+06	1.480E+02	4.737E+00	1.321E+03	8.879E-02
58	2.643E+03	2.116E+06	1.422E+02	4.551E+00	1.270E+03	8.531E-02
59	2.539E+03	2.033E+06	1.366E+02	4.373E+00	1.220E+03	8.196E-02
60	2.439E+03	1.953E+06	1.312E+02	4.201E+00	1.172E+03	7.875E-02
61	2.344E+03	1.877E+06	1.261E+02	4.036E+00	1.126E+03	7.566E-02
62	2.252E+03	1.803E+06	1.212E+02	3.878E+00	1.082E+03	7.269E-02
63	2.164E+03	1.732E+06	1.164E+02	3.726E+00	1.039E+03	6.984E-02
64	2.079E+03	1.665E+06	1.118E+02	3.580E+00	9.987E+02	6.710E-02
65	1.997E+03	1.599E+06	1.075E+02	3.440E+00	9.596E+02	6.447E-02
66	1.919E+03	1.537E+06	1.032E+02	3.305E+00	9.219E+02	6.195E-02
67	1.844E+03	1.476E+06	9.919E+01	3.175E+00	8.858E+02	5.952E-02
68	1.771E+03	1.418E+06	9.530E+01	3.051E+00	8.511E+02	5.718E-02
69	1.702E+03	1.363E+06	9.157E+01	2.931E+00	8.177E+02	5.494E-02
70	1.635E+03	1.309E+06	8.798E+01	2.816E+00	7.856E+02	5.279E-02
71	1.571E+03	1.258E+06	8.453E+01	2.706E+00	7.548E+02	5.072E-02
72	1.509E+03	1.209E+06	8.121E+01	2.600E+00	7.252E+02	4.873E-02
73	1.450E+03	1.161E+06	7.803E+01	2.498E+00	6.968E+02	4.682E-02
74	1.393E+03	1.116E+06	7.497E+01	2.400E+00	6.695E+02	4.498E-02
75	1.339E+03	1.072E+06	7.203E+01	2.306E+00	6.432E+02	4.322E-02
76	1.286E+03	1.030E+06	6.921E+01	2.215E+00	6.180E+02	4.152E-02
77	1.236E+03	9.896E+05	6.649E+01	2.128E+00	5.938E+02	3.990E-02
78	1.187E+03	9.508E+05	6.388E+01	2.045E+00	5.705E+02	3.833E-02
79	1.141E+03	9.135E+05	6.138E+01	1.965E+00	5.481E+02	3.683E-02
80	1.096E+03	8.777E+05	5.897E+01	1.888E+00	5.266E+02	3.538E-02
81	1.053E+03	8.433E+05	5.666E+01	1.814E+00	5.060E+02	3.400E-02
82	1.012E+03	8.102E+05	5.444E+01	1.743E+00	4.861E+02	3.266E-02
83	9.722E+02	7.785E+05	5.230E+01	1.674E+00	4.671E+02	3.138E-02
84	9.340E+02	7.479E+05	5.025E+01	1.609E+00	4.488E+02	3.015E-02
85	8.974E+02	7.186E+05	4.828E+01	1.545E+00	4.312E+02	2.897E-02
86	8.622E+02	6.904E+05	4.639E+01	1.485E+00	4.143E+02	2.783E-02
87	8.284E+02	6.634E+05	4.457E+01	1.427E+00	3.980E+02	2.674E-02
88	7.959E+02	6.373E+05	4.282E+01	1.371E+00	3.824E+02	2.569E-02
89	7.647E+02	6.124E+05	4.114E+01	1.317E+00	3.674E+02	2.469E-02
90	7.347E+02	5.883E+05	3.953E+01	1.265E+00	3.530E+02	2.372E-02
91	7.059E+02	5.653E+05	3.798E+01	1.216E+00	3.392E+02	2.279E-02
92	6.782E+02	5.431E+05	3.649E+01	1.168E+00	3.259E+02	2.189E-02
93	6.517E+02	5.218E+05	3.506E+01	1.122E+00	3.131E+02	2.104E-02
94	6.261E+02	5.014E+05	3.369E+01	1.078E+00	3.008E+02	2.021E-02
95	6.016E+02	4.817E+05	3.237E+01	1.036E+00	2.890E+02	1.942E-02
96	5.780E+02	4.628E+05	3.110E+01	9.954E-01	2.777E+02	1.866E-02
97	5.553E+02	4.447E+05	2.988E+01	9.563E-01	2.668E+02	1.793E-02
98	5.335E+02	4.272E+05	2.871E+01	9.188E-01	2.563E+02	1.722E-02
99	5.126E+02	4.105E+05	2.758E+01	8.828E-01	2.463E+02	1.655E-02
100	4.925E+02	3.944E+05	2.650E+01	8.482E-01	2.366E+02	1.590E-02

**Results (Continued)**

Year	Total landfill gas			NMOC		
	(Mg/year)	(m <sup>3</sup> /year)	(av ft <sup>3</sup> /min)	(Mg/year)	(m <sup>3</sup> /year)	(av ft <sup>3</sup> /min)
101	4.732E+02	3.789E+05	2.546E+01	8.149E-01	2.273E+02	1.528E-02
102	4.546E+02	3.641E+05	2.446E+01	7.830E-01	2.184E+02	1.468E-02
103	4.368E+02	3.498E+05	2.350E+01	7.523E-01	2.099E+02	1.410E-02
104	4.197E+02	3.361E+05	2.258E+01	7.228E-01	2.016E+02	1.355E-02
105	4.032E+02	3.229E+05	2.169E+01	6.944E-01	1.937E+02	1.302E-02
106	3.874E+02	3.102E+05	2.084E+01	6.672E-01	1.861E+02	1.251E-02
107	3.722E+02	2.981E+05	2.003E+01	6.410E-01	1.788E+02	1.202E-02
108	3.576E+02	2.864E+05	1.924E+01	6.159E-01	1.718E+02	1.155E-02
109	3.436E+02	2.751E+05	1.849E+01	5.918E-01	1.651E+02	1.109E-02
110	3.301E+02	2.644E+05	1.776E+01	5.686E-01	1.586E+02	1.066E-02
111	3.172E+02	2.540E+05	1.707E+01	5.463E-01	1.524E+02	1.024E-02
112	3.048E+02	2.440E+05	1.640E+01	5.248E-01	1.464E+02	9.838E-03
113	2.928E+02	2.345E+05	1.575E+01	5.043E-01	1.407E+02	9.452E-03
114	2.813E+02	2.253E+05	1.514E+01	4.845E-01	1.352E+02	9.082E-03
115	2.703E+02	2.164E+05	1.454E+01	4.655E-01	1.299E+02	8.726E-03
116	2.597E+02	2.080E+05	1.397E+01	4.472E-01	1.248E+02	8.383E-03
117	2.495E+02	1.998E+05	1.342E+01	4.297E-01	1.199E+02	8.055E-03
118	2.397E+02	1.920E+05	1.290E+01	4.129E-01	1.152E+02	7.739E-03
119	2.303E+02	1.844E+05	1.239E+01	3.967E-01	1.107E+02	7.435E-03
120	2.213E+02	1.772E+05	1.191E+01	3.811E-01	1.063E+02	7.144E-03
121	2.126E+02	1.703E+05	1.144E+01	3.662E-01	1.022E+02	6.864E-03
122	2.043E+02	1.636E+05	1.099E+01	3.518E-01	9.815E+01	6.595E-03
123	1.963E+02	1.572E+05	1.056E+01	3.380E-01	9.430E+01	6.336E-03
124	1.886E+02	1.510E+05	1.015E+01	3.248E-01	9.060E+01	6.088E-03
125	1.812E+02	1.451E+05	9.748E+00	3.120E-01	8.705E+01	5.849E-03
126	1.741E+02	1.394E+05	9.366E+00	2.998E-01	8.364E+01	5.620E-03
127	1.673E+02	1.339E+05	8.999E+00	2.880E-01	8.036E+01	5.399E-03
128	1.607E+02	1.287E+05	8.646E+00	2.767E-01	7.721E+01	5.188E-03
129	1.544E+02	1.236E+05	8.307E+00	2.659E-01	7.418E+01	4.984E-03
130	1.483E+02	1.188E+05	7.981E+00	2.555E-01	7.127E+01	4.789E-03
131	1.425E+02	1.141E+05	7.668E+00	2.455E-01	6.848E+01	4.601E-03
132	1.369E+02	1.097E+05	7.368E+00	2.358E-01	6.579E+01	4.421E-03
133	1.316E+02	1.054E+05	7.079E+00	2.266E-01	6.321E+01	4.247E-03
134	1.264E+02	1.012E+05	6.801E+00	2.177E-01	6.073E+01	4.081E-03
135	1.215E+02	9.725E+04	6.534E+00	2.092E-01	5.835E+01	3.921E-03
136	1.167E+02	9.344E+04	6.278E+00	2.010E-01	5.606E+01	3.767E-03
137	1.121E+02	8.978E+04	6.032E+00	1.931E-01	5.387E+01	3.619E-03
138	1.077E+02	8.626E+04	5.795E+00	1.855E-01	5.175E+01	3.477E-03
139	1.035E+02	8.287E+04	5.568E+00	1.782E-01	4.972E+01	3.341E-03
140	9.944E+01	7.962E+04	5.350E+00	1.712E-01	4.777E+01	3.210E-03

**Results (Continued)**

Year	Methane			Carbon dioxide		
	(Mg/year)	(m <sup>3</sup> /year)	(av ft <sup>3</sup> /min)	(Mg/year)	(m <sup>3</sup> /year)	(av ft <sup>3</sup> /min)
0	0	0	0	0	0	0
1	1.195E+03	1.791E+06	1.204E+02	3.279E+03	1.791E+06	1.204E+02
2	2.379E+03	3.566E+06	2.396E+02	6.528E+03	3.566E+06	2.396E+02
3	3.554E+03	5.327E+06	3.579E+02	9.751E+03	5.327E+06	3.579E+02
4	4.721E+03	7.076E+06	4.754E+02	1.295E+04	7.076E+06	4.754E+02
5	5.881E+03	8.815E+06	5.923E+02	1.614E+04	8.815E+06	5.923E+02
6	5.650E+03	8.469E+06	5.690E+02	1.550E+04	8.469E+06	5.690E+02
7	5.429E+03	8.137E+06	5.467E+02	1.489E+04	8.137E+06	5.467E+02
8	5.216E+03	7.818E+06	5.253E+02	1.431E+04	7.818E+06	5.253E+02
9	5.011E+03	7.511E+06	5.047E+02	1.375E+04	7.511E+06	5.047E+02
10	4.815E+03	7.217E+06	4.849E+02	1.321E+04	7.217E+06	4.849E+02
11	4.626E+03	6.934E+06	4.659E+02	1.269E+04	6.934E+06	4.659E+02
12	4.445E+03	6.662E+06	4.476E+02	1.219E+04	6.662E+06	4.476E+02
13	4.270E+03	6.401E+06	4.301E+02	1.172E+04	6.401E+06	4.301E+02
14	4.103E+03	6.150E+06	4.132E+02	1.126E+04	6.150E+06	4.132E+02
15	3.942E+03	5.909E+06	3.970E+02	1.082E+04	5.909E+06	3.970E+02
16	3.787E+03	5.677E+06	3.814E+02	1.039E+04	5.677E+06	3.814E+02
17	3.639E+03	5.454E+06	3.665E+02	9.984E+03	5.454E+06	3.665E+02
18	3.496E+03	5.240E+06	3.521E+02	9.593E+03	5.240E+06	3.521E+02
19	3.359E+03	5.035E+06	3.383E+02	9.217E+03	5.035E+06	3.383E+02
20	3.227E+03	4.838E+06	3.250E+02	8.855E+03	4.838E+06	3.250E+02
21	3.101E+03	4.648E+06	3.123E+02	8.508E+03	4.648E+06	3.123E+02
22	2.979E+03	4.466E+06	3.000E+02	8.174E+03	4.466E+06	3.000E+02
23	2.862E+03	4.291E+06	2.883E+02	7.854E+03	4.291E+06	2.883E+02
24	2.750E+03	4.122E+06	2.770E+02	7.546E+03	4.122E+06	2.770E+02
25	2.642E+03	3.961E+06	2.661E+02	7.250E+03	3.961E+06	2.661E+02
26	2.539E+03	3.805E+06	2.557E+02	6.966E+03	3.805E+06	2.557E+02
27	2.439E+03	3.656E+06	2.457E+02	6.693E+03	3.656E+06	2.457E+02
28	2.344E+03	3.513E+06	2.360E+02	6.430E+03	3.513E+06	2.360E+02
29	2.252E+03	3.375E+06	2.268E+02	6.178E+03	3.375E+06	2.268E+02
30	2.163E+03	3.243E+06	2.179E+02	5.936E+03	3.243E+06	2.179E+02
31	2.079E+03	3.116E+06	2.093E+02	5.703E+03	3.116E+06	2.093E+02
32	1.997E+03	2.993E+06	2.011E+02	5.479E+03	2.993E+06	2.011E+02
33	1.919E+03	2.876E+06	1.932E+02	5.265E+03	2.876E+06	1.932E+02
34	1.844E+03	2.763E+06	1.857E+02	5.058E+03	2.763E+06	1.857E+02
35	1.771E+03	2.655E+06	1.784E+02	4.860E+03	2.655E+06	1.784E+02
36	1.702E+03	2.551E+06	1.714E+02	4.669E+03	2.551E+06	1.714E+02
37	1.635E+03	2.451E+06	1.647E+02	4.486E+03	2.451E+06	1.647E+02
38	1.571E+03	2.355E+06	1.582E+02	4.310E+03	2.355E+06	1.582E+02
39	1.509E+03	2.262E+06	1.520E+02	4.141E+03	2.262E+06	1.520E+02
40	1.450E+03	2.174E+06	1.460E+02	3.979E+03	2.174E+06	1.460E+02
41	1.393E+03	2.088E+06	1.403E+02	3.823E+03	2.088E+06	1.403E+02
42	1.339E+03	2.007E+06	1.348E+02	3.673E+03	2.007E+06	1.348E+02
43	1.286E+03	1.928E+06	1.295E+02	3.529E+03	1.928E+06	1.295E+02
44	1.236E+03	1.852E+06	1.245E+02	3.391E+03	1.852E+06	1.245E+02
45	1.187E+03	1.780E+06	1.196E+02	3.258E+03	1.780E+06	1.196E+02
46	1.141E+03	1.710E+06	1.149E+02	3.130E+03	1.710E+06	1.149E+02
47	1.096E+03	1.643E+06	1.104E+02	3.007E+03	1.643E+06	1.104E+02
48	1.053E+03	1.578E+06	1.061E+02	2.889E+03	1.578E+06	1.061E+02
49	1.012E+03	1.517E+06	1.019E+02	2.776E+03	1.517E+06	1.019E+02

**Results (Continued)**

Year	Methane			Carbon dioxide		
	(Mg/year)	(m <sup>3</sup> /year)	(av ft <sup>3</sup> /min)	(Mg/year)	(m <sup>3</sup> /year)	(av ft <sup>3</sup> /min)
50	9.721E+02	1.457E+06	9.790E+01	2.667E+03	1.457E+06	9.790E+01
51	9.340E+02	1.400E+06	9.406E+01	2.563E+03	1.400E+06	9.406E+01
52	8.973E+02	1.345E+06	9.037E+01	2.462E+03	1.345E+06	9.037E+01
53	8.621E+02	1.292E+06	8.683E+01	2.366E+03	1.292E+06	8.683E+01
54	8.283E+02	1.242E+06	8.342E+01	2.273E+03	1.242E+06	8.342E+01
55	7.959E+02	1.193E+06	8.015E+01	2.184E+03	1.193E+06	8.015E+01
56	7.647E+02	1.146E+06	7.701E+01	2.098E+03	1.146E+06	7.701E+01
57	7.347E+02	1.101E+06	7.399E+01	2.016E+03	1.101E+06	7.399E+01
58	7.059E+02	1.058E+06	7.109E+01	1.937E+03	1.058E+06	7.109E+01
59	6.782E+02	1.017E+06	6.830E+01	1.861E+03	1.017E+06	6.830E+01
60	6.516E+02	9.767E+05	6.562E+01	1.788E+03	9.767E+05	6.562E+01
61	6.260E+02	9.384E+05	6.305E+01	1.718E+03	9.384E+05	6.305E+01
62	6.015E+02	9.016E+05	6.058E+01	1.650E+03	9.016E+05	6.058E+01
63	5.779E+02	8.662E+05	5.820E+01	1.586E+03	8.662E+05	5.820E+01
64	5.553E+02	8.323E+05	5.592E+01	1.523E+03	8.323E+05	5.592E+01
65	5.335E+02	7.996E+05	5.373E+01	1.464E+03	7.996E+05	5.373E+01
66	5.126E+02	7.683E+05	5.162E+01	1.406E+03	7.683E+05	5.162E+01
67	4.925E+02	7.382E+05	4.960E+01	1.351E+03	7.382E+05	4.960E+01
68	4.732E+02	7.092E+05	4.765E+01	1.298E+03	7.092E+05	4.765E+01
69	4.546E+02	6.814E+05	4.578E+01	1.247E+03	6.814E+05	4.578E+01
70	4.368E+02	6.547E+05	4.399E+01	1.198E+03	6.547E+05	4.399E+01
71	4.197E+02	6.290E+05	4.226E+01	1.151E+03	6.290E+05	4.226E+01
72	4.032E+02	6.044E+05	4.061E+01	1.106E+03	6.044E+05	4.061E+01
73	3.874E+02	5.807E+05	3.901E+01	1.063E+03	5.807E+05	3.901E+01
74	3.722E+02	5.579E+05	3.748E+01	1.021E+03	5.579E+05	3.748E+01
75	3.576E+02	5.360E+05	3.601E+01	9.812E+02	5.360E+05	3.601E+01
76	3.436E+02	5.150E+05	3.460E+01	9.427E+02	5.150E+05	3.460E+01
77	3.301E+02	4.948E+05	3.325E+01	9.057E+02	4.948E+05	3.325E+01
78	3.172E+02	4.754E+05	3.194E+01	8.702E+02	4.754E+05	3.194E+01
79	3.047E+02	4.568E+05	3.069E+01	8.361E+02	4.568E+05	3.069E+01
80	2.928E+02	4.389E+05	2.949E+01	8.033E+02	4.389E+05	2.949E+01
81	2.813E+02	4.216E+05	2.833E+01	7.718E+02	4.216E+05	2.833E+01
82	2.703E+02	4.051E+05	2.722E+01	7.416E+02	4.051E+05	2.722E+01
83	2.597E+02	3.892E+05	2.615E+01	7.125E+02	3.892E+05	2.615E+01
84	2.495E+02	3.740E+05	2.513E+01	6.845E+02	3.740E+05	2.513E+01
85	2.397E+02	3.593E+05	2.414E+01	6.577E+02	3.593E+05	2.414E+01
86	2.303E+02	3.452E+05	2.319E+01	6.319E+02	3.452E+05	2.319E+01
87	2.213E+02	3.317E+05	2.229E+01	6.071E+02	3.317E+05	2.229E+01
88	2.126E+02	3.187E+05	2.141E+01	5.833E+02	3.187E+05	2.141E+01
89	2.043E+02	3.062E+05	2.057E+01	5.605E+02	3.062E+05	2.057E+01
90	1.963E+02	2.942E+05	1.977E+01	5.385E+02	2.942E+05	1.977E+01
91	1.886E+02	2.826E+05	1.899E+01	5.174E+02	2.826E+05	1.899E+01
92	1.812E+02	2.716E+05	1.825E+01	4.971E+02	2.716E+05	1.825E+01
93	1.741E+02	2.609E+05	1.753E+01	4.776E+02	2.609E+05	1.753E+01
94	1.672E+02	2.507E+05	1.684E+01	4.589E+02	2.507E+05	1.684E+01
95	1.607E+02	2.408E+05	1.618E+01	4.409E+02	2.408E+05	1.618E+01
96	1.544E+02	2.314E+05	1.555E+01	4.236E+02	2.314E+05	1.555E+01
97	1.483E+02	2.223E+05	1.494E+01	4.070E+02	2.223E+05	1.494E+01
98	1.425E+02	2.136E+05	1.435E+01	3.910E+02	2.136E+05	1.435E+01
99	1.369E+02	2.052E+05	1.379E+01	3.757E+02	2.052E+05	1.379E+01
100	1.316E+02	1.972E+05	1.325E+01	3.610E+02	1.972E+05	1.325E+01

**Results (Continued)**

Year	Methane			Carbon dioxide		
	(Mg/year)	(m <sup>3</sup> /year)	(av ft <sup>3</sup> /min)	(Mg/year)	(m <sup>3</sup> /year)	(av ft <sup>3</sup> /min)
101	1.264E+02	1.895E+05	1.273E+01	3.468E+02	1.895E+05	1.273E+01
102	1.214E+02	1.820E+05	1.223E+01	3.332E+02	1.820E+05	1.223E+01
103	1.167E+02	1.749E+05	1.175E+01	3.201E+02	1.749E+05	1.175E+01
104	1.121E+02	1.680E+05	1.129E+01	3.076E+02	1.680E+05	1.129E+01
105	1.077E+02	1.614E+05	1.085E+01	2.955E+02	1.614E+05	1.085E+01
106	1.035E+02	1.551E+05	1.042E+01	2.839E+02	1.551E+05	1.042E+01
107	9.943E+01	1.490E+05	1.001E+01	2.728E+02	1.490E+05	1.001E+01
108	9.553E+01	1.432E+05	9.621E+00	2.621E+02	1.432E+05	9.621E+00
109	9.178E+01	1.376E+05	9.244E+00	2.518E+02	1.376E+05	9.244E+00
110	8.818E+01	1.322E+05	8.881E+00	2.420E+02	1.322E+05	8.881E+00
111	8.473E+01	1.270E+05	8.533E+00	2.325E+02	1.270E+05	8.533E+00
112	8.140E+01	1.220E+05	8.198E+00	2.234E+02	1.220E+05	8.198E+00
113	7.821E+01	1.172E+05	7.877E+00	2.146E+02	1.172E+05	7.877E+00
114	7.515E+01	1.126E+05	7.568E+00	2.062E+02	1.126E+05	7.568E+00
115	7.220E+01	1.082E+05	7.271E+00	1.981E+02	1.082E+05	7.271E+00
116	6.937E+01	1.040E+05	6.986E+00	1.903E+02	1.040E+05	6.986E+00
117	6.665E+01	9.990E+04	6.712E+00	1.829E+02	9.990E+04	6.712E+00
118	6.403E+01	9.598E+04	6.449E+00	1.757E+02	9.598E+04	6.449E+00
119	6.152E+01	9.222E+04	6.196E+00	1.688E+02	9.222E+04	6.196E+00
120	5.911E+01	8.860E+04	5.953E+00	1.622E+02	8.860E+04	5.953E+00
121	5.679E+01	8.513E+04	5.720E+00	1.558E+02	8.513E+04	5.720E+00
122	5.457E+01	8.179E+04	5.496E+00	1.497E+02	8.179E+04	5.496E+00
123	5.243E+01	7.858E+04	5.280E+00	1.438E+02	7.858E+04	5.280E+00
124	5.037E+01	7.550E+04	5.073E+00	1.382E+02	7.550E+04	5.073E+00
125	4.840E+01	7.254E+04	4.874E+00	1.328E+02	7.254E+04	4.874E+00
126	4.650E+01	6.970E+04	4.683E+00	1.276E+02	6.970E+04	4.683E+00
127	4.468E+01	6.696E+04	4.499E+00	1.226E+02	6.696E+04	4.499E+00
128	4.292E+01	6.434E+04	4.323E+00	1.178E+02	6.434E+04	4.323E+00
129	4.124E+01	6.182E+04	4.153E+00	1.132E+02	6.182E+04	4.153E+00
130	3.962E+01	5.939E+04	3.991E+00	1.087E+02	5.939E+04	3.991E+00
131	3.807E+01	5.706E+04	3.834E+00	1.045E+02	5.706E+04	3.834E+00
132	3.658E+01	5.483E+04	3.684E+00	1.004E+02	5.483E+04	3.684E+00
133	3.514E+01	5.268E+04	3.539E+00	9.642E+01	5.268E+04	3.539E+00
134	3.376E+01	5.061E+04	3.401E+00	9.264E+01	5.061E+04	3.401E+00
135	3.244E+01	4.863E+04	3.267E+00	8.901E+01	4.863E+04	3.267E+00
136	3.117E+01	4.672E+04	3.139E+00	8.552E+01	4.672E+04	3.139E+00
137	2.995E+01	4.489E+04	3.016E+00	8.217E+01	4.489E+04	3.016E+00
138	2.877E+01	4.313E+04	2.898E+00	7.895E+01	4.313E+04	2.898E+00
139	2.764E+01	4.144E+04	2.784E+00	7.585E+01	4.144E+04	2.784E+00
140	2.656E+01	3.981E+04	2.675E+00	7.288E+01	3.981E+04	2.675E+00



1050 Northeast Tenth Place • Gainesville, Florida, 32601 • 352.672.8060

PROJECT NUMBER: 1400-04 SHEET: 1 OF 1  
 PROJECT NAME: ACMS Operations Permit  
 SUBJECT: Att. 1 - Emissions Calculations, HAPs and VOCs  
 BY: RKelner Date: 8/2/12  
 CHECKED BY: Date:

**ACMS Class I Landfill**  
*Initial Air Operations Permit Application*

**HAPS Emissions**

Year (emissions at end of 2017) 2017  
 Total landfill gas generated (model yr 5) 1.76E+01 Mm<sup>3</sup>/year

**VOC Emissions:**

NMOC Emissions: 41.7 TPY Per LandGEM Model  
 VOC Emissions: 16.3 TPY 39% of NMOC per AP-42, Section 2.4 (1998)

CAS number	Compound	Median (ppmv)	Data Source	Molecular Weight	Gravimetric Concentration (mg/m <sup>3</sup> )	Potential to Emit	
						MG/yr	tons/yr
71-55-6	1,1,1-Trichloroethane (methyl chloroform)	0.48	AP-42	133.41	2.66	4.70E-02	5.18E-02
79-34-5	1,1,2,2-Tetrachloroethane	1.11	AP-42	167.85	7.75	1.37E-01	1.51E-01
75-34-3	1,1-Dichloroethane (ethylidene dichloride)	2.35	AP-42	98.97	9.67	1.71E-01	1.88E-01
75-35-4	1,1,-Dichloroethene (vinylidene chloride)	0.20	AP-42	96.94	0.81	1.42E-02	1.57E-02
107-06-2	1,2-Dichloroethane (ethylene dichloride)	0.41	AP-42	98.96	1.69	2.98E-02	3.28E-02
78-87-5	1,2-Dichloropropane (propylene dichloride)	0.18	AP-42	112.99	0.85	1.49E-02	1.65E-02
107-13-1	Acrylonitrile	6.33	AP-42	53.06	13.97	2.46E-01	2.72E-01
75-15-0	Carbon disulfide	0.58	AP-42	76.1	1.84	3.24E-02	3.57E-02
56-23-5	Carbon Tetrachloride	4.00E-03	AP-42	153.84	0.03	4.51E-04	4.98E-04
463-58-1	Carbonyl sulfide	0.49	AP-42	60.07	1.22	2.16E-02	2.38E-02
108-90-7	Chlorobenzene	0.25	AP-42	112.56	1.17	2.06E-02	2.28E-02
75-00-3	Chloroethane (ethyl chloride)	1.25	AP-42	64.52	3.35	5.91E-02	6.52E-02
67-66-3	Chloroform	0.03	AP-42	119.39	0.15	2.63E-03	2.90E-03
75-09-2	Dichloromethane (methylene chloride)	14.30	AP-42	84.94	50.53	8.91E-01	9.83E-01
100-41-4	Ethylbenzene	4.61	AP-42	106.16	20.36	3.59E-01	3.96E-01
110-54-3	n-Hexane	6.57	AP-42	86.18	23.55	4.15E-01	4.58E-01
7439-97-6	Mercury <sup>2</sup>	2.94E-04	AP-42	200.61	0.00	4.33E-05	4.77E-05
78-93-3	Methyl ethyl ketone	7.09	AP-42	72.11	21.27	3.75E-01	4.14E-01
108-10-1	Methyl isobutyl ketone	1.87	AP-42	100.16	7.79	1.37E-01	1.52E-01
127-18-4	Perchloroethylene (tetrachloroethylene)	3.73	AP-42	165.83	25.73	4.54E-01	5.00E-01
79-01-6	Trichloroethylene (trichloroethane)	2.82	AP-42	131.40	15.41	2.72E-01	3.00E-01
75-01-4	Vinyl Chloride	7.34	AP-42	62.50	19.08	3.38E-01	3.71E-01
71-43-2	Benzene	1.91	AP-42	78.11	6.21	1.09E-01	1.21E-01
108-88-3	Toluene	39.30	AP-42	92.13	150.61	2.66E+00	2.93E+00
1330-20-7	Xylenes	12.10	AP-42	106.16	53.43	9.42E-01	1.04E+00
	<b>Total HAPS</b>					<b>7.74</b>	<b>8.54</b>

**Notes:**  
 (1) - Reference: AP-42 Section 2.4 (1998)



**ATTACHMENT 2**

**PARTICULATE MATTER CALCULATIONS**

**ACMS Class I Landfill**  
*Initial Air Operations Permit Application*

**Particulate Matter Emissions**

Variable	Definition	Value		Units	Reference
		PM2.5	PM10		
s	Surface material silt content	6.4	6.4	%	AP-42 Section 13.2.2, Table 13.2.2-1 (2006)
W	Mean vehicle weight	80	80	Tons	Estimated - fully loaded transfer trailer
k	Empirical constant	0.15	1.5	-	AP-42 Section 13.2.2, Table 13.2.2-2 (2006)
a	Empirical constant	0.9	0.9	-	AP-42 Section 13.2.2, Table 13.2.2-2 (2006)
b	Empirical constant	0.45	0.45	-	AP-42 Section 13.2.2, Table 13.2.2-2 (2006)
P	Number of days in a year with >0.01" precipitation	120	120	-	AP-42 Section 13.2.2, Figure 13.2.2-1 (2006)
VMT	Vehicle miles traveled	6658	6658	Miles	Assumed based on 5-year average annual tonnage rate, 40 tons per trip, 0.5 miles per trip

1. Size-specific emissions factor (lb/VMT)

$$E = k \cdot \left(\frac{s}{12}\right)^a \cdot \left(\frac{W}{3}\right)^b \cdot \left(\frac{365-P}{365}\right)$$

AP-42, Section 13.2.2, Equations (1a) and (2)

$E_{2.5} = 0.25$

$E_{10} = 2.51$

2. Particulate Emissions

$$M_{PM} = E \cdot VMT$$

$M_{PM2.5} = 0.8$  tons/year

$M_{PM10} = 8.3$  tons/year

**PART II**

**FDEP FORM 62-210.900(1)  
APPLICATION FOR AIR PERMIT, LONG FORM**



# Department of Environmental Protection

## Division of Air Resource Management

### APPLICATION FOR AIR PERMIT - LONG FORM

#### I. APPLICATION INFORMATION

**Air Construction Permit** – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

**Air Operation Permit** – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial, revised, or renewal Title V air operation permit.

**To ensure accuracy, please see form instructions.**

#### Identification of Facility

1. Facility Owner/Company Name: <b>A.C.M.S., Inc.</b>	
2. Site Name: <b>A.C.M.S. Class I Landfill</b>	
3. Facility Identification Number: <b>1190053</b>	
4. Facility Location... Street Address or Other Locator: <b>CR 529</b> City: <b>Bushnell</b> County: <b>Sumter</b> Zip Code: <b>33513</b>	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

#### Application Contact

1. Application Contact Name: <b>Rebecca Kelner, P.E.</b>	
2. Application Contact Mailing Address... Organization/Firm: <b>Kelner Engineering</b> Street Address: <b>1050 NE 10<sup>th</sup> Place</b> City: <b>Gainesville</b> State: <b>Florida</b> Zip Code: <b>32601</b>	
3. Application Contact Telephone Numbers... Telephone: <b>( 352 ) 672 - 8060</b> ext.      Fax: <b>( 866 ) 722 - 0656</b>	
4. Application Contact E-mail Address: <b>rebecca@kelnerinc.com</b>	

#### Application Processing Information (DEP Use)

1. Date of Receipt of Application: <b>08/17/12</b>	3. PSD Number (if applicable):
2. Project Number(s): <b>1190053-001-AC</b>	4. Siting Number (if applicable):

## APPLICATION INFORMATION

### Purpose of Application

This application for air permit is being submitted to obtain: (Check one)

#### **Air Construction Permit**

- Air construction permit.
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

#### **Air Operation Permit**

- Initial Title V air operation permit.
- Title V air operation permit revision.
- Title V air operation permit renewal.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

#### **Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)**

- Air construction permit and Title V permit revision, incorporating the proposed project.
- Air construction permit and Title V permit renewal, incorporating the proposed project.

**Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:**

- I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

### Application Comment

**Initial Title V Air Operations Permit (Rule 62-213, F.A.C.) for a Class I (MSW) Landfill.**

**APPLICATION INFORMATION**

**Scope of Application**

<b>Emissions Unit ID Number</b>	<b>Description of Emissions Unit</b>	<b>Air Permit Type</b>	<b>Air Permit Processing Fee</b>
EU-001	Class I Landfill	N/A	N/A

**Application Processing Fee**

Check one:  Attached - Amount: \$ \_\_\_\_\_  Not Applicable

**APPLICATION INFORMATION**

**Owner/Authorized Representative Statement**

**Complete if applying for an air construction permit or an initial FESOP.**

1. Owner/Authorized Representative Name :
2. Owner/Authorized Representative Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
3. Owner/Authorized Representative Telephone Numbers... Telephone: ( ) - ext. Fax: ( ) -
4. Owner/Authorized Representative E-mail Address:
5. Owner/Authorized Representative Statement:  <i>I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.</i>  _____ Signature Date

## APPLICATION INFORMATION

### Application Responsible Official Certification

Complete if applying for an initial, revised, or renewal Title V air operation permit or concurrent processing of an air construction permit and revised or renewal Title V air operation permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1. Application Responsible Official Name: <b>Charles Dean, Jr.</b>
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input checked="" type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source or CAIR source.
3. Application Responsible Official Mailing Address... Organization/Firm: <b>A.C.M.S., Inc.</b> Street Address: <b>PO Box 949</b> City: <b>Lake Panasoffkee</b> State: <b>Florida</b> Zip Code: <b>33538</b>
4. Application Responsible Official Telephone Numbers... Telephone: <b>(352) 303 - 8828</b> ext. Fax: <b>(352) 568 - 0110</b>
5. Application Responsible Official E-mail Address: <b>cdean001@tampabay.rr.com</b>



## APPLICATION INFORMATION

### 6. Application Responsible Official Certification:

I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.

  
Signature

8/10/12  
Date

# APPLICATION INFORMATION

## Professional Engineer Certification

1. Professional Engineer Name: <b>Rebecca Kelner, P.E.</b> Registration Number: <b>66470</b>
2. Professional Engineer Mailing Address... Organization/Firm: <b>Kelner Engineering</b> Street Address: <b>1050 N.E. 10<sup>th</sup> Place</b> City: <b>Gainesville</b> State: <b>Florida</b> Zip Code: <b>32601</b>
3. Professional Engineer Telephone Numbers... Telephone: <b>(352) 672 - 8060</b> ext. Fax: <b>(866) 722 - 0656</b>
4. Professional Engineer E-mail Address: <b>rebecca@kelnerinc.com</b>
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> <i>(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and</i> <i>(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.</i> <i>(3) If the purpose of this application is to obtain a Title V air operation permit (check here <input checked="" type="checkbox"/>, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.</i> <i>(4) If the purpose of this application is to obtain an air construction permit (check here <input type="checkbox"/>, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.</i> <i>(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.</i> _____ Signature <b>8/16/12</b> Date (seal) STATE OF FLORIDA PROFESSIONAL ENGINEER

\* Attach any exception to certification statement.

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates... Zone            East (km) North (km)		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) <b>28/44/15</b> Longitude (DD/MM/SS) <b>82/5/30</b>	
3. Governmental Facility Code: <b>0</b>	4. Facility Status Code: <b>C</b>	5. Facility Major Group SIC Code: <b>49</b>	6. Facility SIC(s):  <b>4953</b>
7. Facility Comment : <b>The facility is a new Class I (MSW) Landfill. The Landfill is anticipated to begin accepting waste in the first quarter of 2013.</b>			

#### Facility Contact

1. Facility Contact Name: <b>Marilyn Connell, General Manager</b>
2. Facility Contact Mailing Address... Organization/Firm: <b>A.C.M.S., Inc.</b> Street Address: <b>PO Box 949</b> City: <b>Lake Panasoffkee</b> State: <b>Florida</b> Zip Code: <b>33538</b>
3. Facility Contact Telephone Numbers: Telephone: <b>(352) 568 - 0999</b> ext.   Fax: <b>(352) 568 - 0110</b>
4. Facility Contact E-mail Address: <b>mconnell@sumtersolidwaste.com</b>

#### Facility Primary Responsible Official

**Complete if an "application responsible official" is identified in Section I that is not the facility "primary responsible official."**

1. Facility Primary Responsible Official Name:
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: City:                            State:                            Zip Code:
3. Facility Primary Responsible Official Telephone Numbers... Telephone: ( ) -   ext.   Fax: ( ) -
4. Facility Primary Responsible Official E-mail Address:

**FACILITY INFORMATION**

**Facility Regulatory Classifications**

**Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a “major source” and a “synthetic minor source.”**

1. <input type="checkbox"/> Small Business Stationary Source	<input type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source	
3. <input checked="" type="checkbox"/> Title V Source	
4. <input checked="" type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. <input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. <input type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7. <input type="checkbox"/> Synthetic Minor Source of HAPs	
8. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. <input type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. <input type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
<p>12. Facility Regulatory Classifications Comment:</p> <p><b>This facility is subject to the New Source Performance Standards (NSPS) for solid waste landfills, promulgated by USEPA under 40 CFR 60 Subpart WWW.</b></p> <p><b>This facility is subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for MSW landfills (40 CFR 63 Subpart AAAA).</b></p> <p><b>This facility is subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Asbestos (40 CFR 63 Subpart M).</b></p>	

**FACILITY INFORMATION**

**List of Pollutants Emitted by Facility**

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
NMOC	B	N
VOC	B	

**FACILITY INFORMATION**

**B. EMISSIONS CAPS**

**Facility-Wide or Multi-Unit Emissions Caps**

1. Pollutant Subject to Emissions Cap	2. Facility-Wide Cap [Y or N]? (all units)	3. Emissions Unit ID's Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
<p>7. Facility-Wide or Multi-Unit Emissions Cap Comment:</p>					

**FACILITY INFORMATION**

**C. FACILITY ADDITIONAL INFORMATION**

**Additional Requirements for All Applications, Except as Otherwise Stated**

1.	Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>ATT 1</u> <input type="checkbox"/> Previously Submitted, Date: _____
2.	Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>ATT 2</u> <input type="checkbox"/> Previously Submitted, Date: _____
3.	Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>ATT 3</u> <input type="checkbox"/> Previously Submitted, Date: _____

**Additional Requirements for Air Construction Permit Applications**

1.	Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (existing permitted facility)
2.	Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): <input type="checkbox"/> Attached, Document ID: _____
3.	Rule Applicability Analysis: <input type="checkbox"/> Attached, Document ID: _____
4.	List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (no exempt units at facility)
5.	Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
6.	Air Quality Analysis (Rule 62-212.400(7), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
7.	Source Impact Analysis (Rule 62-212.400(5), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
8.	Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
9.	Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
10.	Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

**FACILITY INFORMATION**

**C. FACILITY ADDITIONAL INFORMATION (CONTINUED)**

**Additional Requirements for FESOP Applications**

1. List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (no exempt units at facility)
---

**Additional Requirements for Title V Air Operation Permit Applications**

1. List of Insignificant Activities: (Required for initial/renewal applications only) <input checked="" type="checkbox"/> Attached, Document ID: <u>ATT 4</u> <input type="checkbox"/> Not Applicable (revision application)
2. Identification of Applicable Requirements: (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>ATT 5</u> <input type="checkbox"/> Not Applicable (revision application with no change in applicable requirements)
3. Compliance Report and Plan: (Required for all initial/revision/renewal applications) <input checked="" type="checkbox"/> Attached, Document ID: <u>ATT 6</u>  Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.
4. List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities Onsite but Not Required to be Individually Listed <input checked="" type="checkbox"/> Not Applicable
5. Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Requested Changes to Current Title V Air Operation Permit: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable



**FACILITY INFORMATION**

**C. FACILITY ADDITIONAL INFORMATION (CONTINUED)**

**Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program**

1. Acid Rain Program Forms:

Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):

Attached, Document ID: \_\_\_\_\_  Previously Submitted, Date: \_\_\_\_\_

Not Applicable (not an Acid Rain source)

Phase II NO<sub>x</sub> Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):

Attached, Document ID: \_\_\_\_\_  Previously Submitted, Date: \_\_\_\_\_

Not Applicable

New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):

Attached, Document ID: \_\_\_\_\_  Previously Submitted, Date: \_\_\_\_\_

Not Applicable

2. CAIR Part (DEP Form No. 62-210.900(1)(b)):

Attached, Document ID: \_\_\_\_\_  Previously Submitted, Date: \_\_\_\_\_

Not Applicable (not a CAIR source)

**Additional Requirements Comment**

**EMISSIONS UNIT INFORMATION**

Section [ ] of [ ]

**III. EMISSIONS UNIT INFORMATION**

**Title V Air Operation Permit Application** - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for an initial, revised or renewal Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application** - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for an air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application** - Where this application is used to apply for both an air construction permit and a revised or renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes, and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

Section [ 1 ] of [ 1 ]

**A. GENERAL EMISSIONS UNIT INFORMATION**

**Title V Air Operation Permit Emissions Unit Classification**

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in this Section: (Check one)

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section:  
**Class I (MSW) Landfill**

3. Emissions Unit Identification Number: **EU-001**

4. Emissions Unit Status Code: <b>C</b>	5. Commence Construction Date: <b>5/21/2012</b>	6. Initial Startup Date: <b>Q1 2013 (est.)</b>	7. Emissions Unit Major Group SIC Code: <b>49</b>
--	--	---	--

8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

9. Package Unit:  
Manufacturer: \_\_\_\_\_ Model Number: \_\_\_\_\_

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:  
**The emissions unit is a new Class I (MSW) Landfill currently undergoing construction. A gas collection and control system has not been installed at this time.**

**EMISSIONS UNIT INFORMATION**

Section [1] of [1]

**Emissions Unit Control Equipment/Method:** Control \_\_\_ of \_\_\_

1. Control Equipment/Method Description:
2. Control Device or Method Code:

**Emissions Unit Control Equipment/Method:** Control \_\_\_ of \_\_\_

1. Control Equipment/Method Description:
2. Control Device or Method Code:

**Emissions Unit Control Equipment/Method:** Control \_\_\_ of \_\_\_

1. Control Equipment/Method Description:
2. Control Device or Method Code:

**Emissions Unit Control Equipment/Method:** Control \_\_\_ of \_\_\_

1. Control Equipment/Method Description:
2. Control Device or Method Code:

**EMISSIONS UNIT INFORMATION**

Section [ 1 ] of [ 1 ]

**B. EMISSIONS UNIT CAPACITY INFORMATION**

(Optional for unregulated emissions units.)

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Process or Throughput Rate:
2. Maximum Production Rate:
3. Maximum Heat Input Rate: million Btu/hr
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8760 hours/year
6. Operating Capacity/Schedule Comment: <b>The emissions unit will generate landfill gas continuously through biological degradation of the waste.</b>

**EMISSIONS UNIT INFORMATION**

Section [1] of [1]

**C. EMISSION POINT (STACK/VENT) INFORMATION**

(Optional for unregulated emissions units.)

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: <b>Class I (MSW) Landfill</b>		2. Emission Point Type Code: <b>4</b>	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: <b>A gas collection and control system has not been installed at this time</b>			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: <b>F</b>	6. Stack Height: feet		7. Exit Diameter: feet
8. Exit Temperature: <b>77 °F</b>	9. Actual Volumetric Flow Rate: <b>1,185 acfm</b>		10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: Feet: <b>Varies 60 – 305 FT NGVD</b>	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment: <b>Actual volumetric flow rate calculated using EPA LandGEM model and indicates maximum calculated LFG production in 2017.</b>  <b>Nonstack emission point height will vary as waste is landfilled.</b>			

**EMISSIONS UNIT INFORMATION**

Section [ 1 ] of [ 1 ]

**D. SEGMENT (PROCESS/FUEL) INFORMATION**

**Segment Description and Rate:** Segment 1 of 1

1. Segment Description (Process/Fuel Type): <b>MSW disposal</b>		
2. Source Classification Code (SCC): <b>5-01-004-02</b>		3. SCC Units: <b>Tons processed</b>
4. Maximum Hourly Rate:	5. Maximum Annual Rate: <b>Approx. 565,000</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: <b>Tonnage rates based on solid waste permit application; annual tonnage rates may vary</b>		

**Segment Description and Rate:** Segment    of   

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		





**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**  
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

1. Pollutant Emitted:		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions \_\_\_ of \_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions \_\_\_ of \_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions \_\_\_ of \_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**EMISSIONS UNIT INFORMATION**

Section [ ] of [ ]

**G. VISIBLE EMISSIONS INFORMATION**

**Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.**

**Visible Emissions Limitation:** Visible Emissions Limitation \_\_\_ of \_\_\_

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions:                      %      Exceptional Conditions:                      % Maximum Period of Excess Opacity Allowed:    min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

**Visible Emissions Limitation:** Visible Emissions Limitation \_\_\_ of \_\_\_

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions:                      %      Exceptional Conditions:                      % Maximum Period of Excess Opacity Allowed:    min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

**EMISSIONS UNIT INFORMATION**

Section [ ] of [ ]

**H. CONTINUOUS MONITOR INFORMATION**

**Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.**

**Continuous Monitoring System:** Continuous Monitor \_\_\_ of \_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer:	Serial Number:
Model Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

**Continuous Monitoring System:** Continuous Monitor \_\_\_ of \_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer:	Serial Number:
Model Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

**EMISSIONS UNIT INFORMATION**

Section [1] of [ ]

**I. EMISSIONS UNIT ADDITIONAL INFORMATION**

**Additional Requirements for All Applications, Except as Otherwise Stated**

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>ATT 2</u> <input type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>ATT 7</u> <input type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>ATT 8</u> <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>ATT 9</u> <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable

6. Compliance Demonstration Reports/Records:

Attached, Document ID: \_\_\_\_\_

Test Date(s)/Pollutant(s) Tested: \_\_\_\_\_

Previously Submitted, Date: \_\_\_\_\_

Test Date(s)/Pollutant(s) Tested: \_\_\_\_\_

To be Submitted, Date (if known): \_\_\_\_\_

Test Date(s)/Pollutant(s) Tested: \_\_\_\_\_

Not Applicable

Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.

7. Other Information Required by Rule or Statute:

Attached, Document ID: \_\_\_\_\_

Not Applicable

**EMISSIONS UNIT INFORMATION**

Section [ ] of [ ]

**I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)****Additional Requirements for Air Construction Permit Applications**

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

**Additional Requirements for Title V Air Operation Permit Applications**

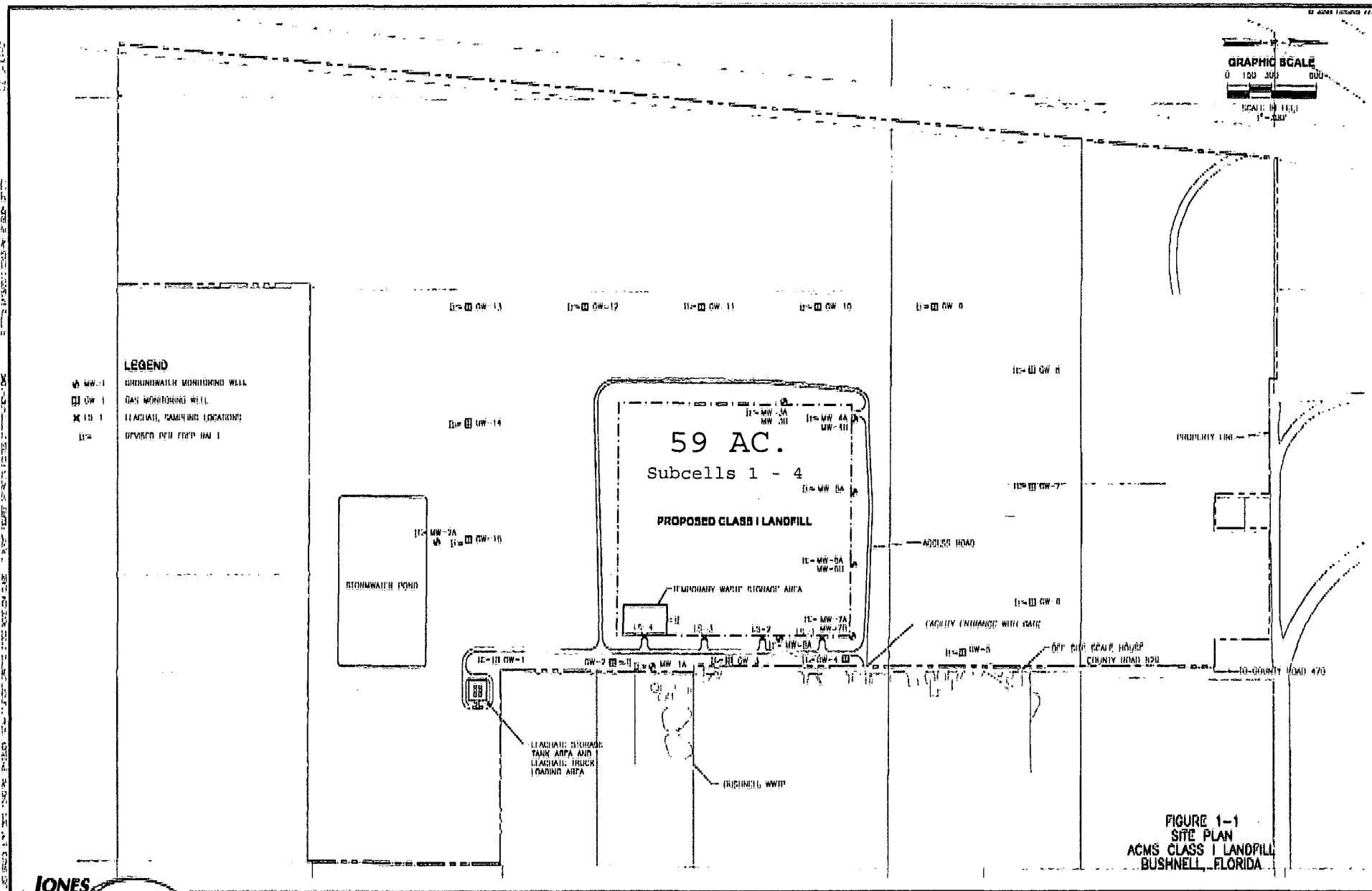
1. Identification of Applicable Requirements: <input checked="" type="checkbox"/> Attached, Document ID: <u>ATT 5</u>
2. Compliance Assurance Monitoring: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**Additional Requirements Comment**

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**ATTACHMENT 1**  
**FACILITY PLOT PLAN**

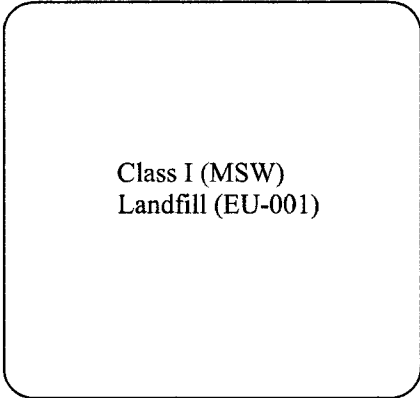




**JONES  
EDMUNDS**

**ATTACHMENT 2**

**PROCESS FLOW DIAGRAM**



→ Fugitive Emissions

Aug. 2012	A.C.M.S., Inc.		
	Title V Initial Air Operation Permit Application		
	Scale: NTS	Sheet: 1 of 1	Kelner Engineering Project: 1400-04

**Attachment 2**  
**Process Flow Diagram**

**ATTACHMENT 3**

**PRECAUTIONS TO PREVENT EMISSIONS OF  
UNCONFINED PARTICULATE MATTER**

### ATTACHMENT 3

#### PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

Pursuant to Rule 62-296.320, F.A.C., A.C.M.S., Inc. will undertake reasonable actions to reduce the emission of particulate matter. Reasonable precautions that may be taken at the Landfill include:

- Monitoring intermediate cover erosion.
- Applying water to suppress dust on unpaved roads, open stockpiles, or similar activities.
- Removing particulate matter from roads or other paved areas as needed to prevent re-entrainment.

**ATTACHMENT 4**

**LIST OF INSIGNIFICANT ACTIVITIES**

## ATTACHMENT 4

### LIST OF INSIGNIFICANT ACTIVITIES

The below listed emissions units and/or activities are considered exempt pursuant to Rule 62-213.430(6), FAC

- Temporary storage of special wastes.
- Leachate storage tanks.
- Vehicle repair and maintenance activities.
- Temporary used oil and hydraulic fluid storage.
- Vehicle refueling and associated fuel storage.

**ATTACHMENT 5**

**IDENTIFICATION OF APPLICABLE REGULATIONS**



## ATTACHMENT 5

### IDENTIFICATION OF APPLICABLE REGULATIONS

The following air-related requirements are applicable to the Class I Landfill:

#### **Federal Applicable Requirements**

40 CFR 60, Subpart WWW 40

40 CFR 63, Subpart AAAAA

40 CFR 63, Subpart M

#### **State Applicable Requirements**

62-4.030 - General Prohibitions

62-4.040 - Exemptions

62-4.090 - Permit Renewal

62-4.100 - Suspensions

62-4.120 - Transferability of Permit

62-4.130 - Plant Operation - Problems

62-4.160 - General Conditions

62-204.200 - Definitions

62-204.800 - Federal Regulations

62-210.200 - Definitions

62-210.200(198) - Objectionable Odor

62-210.300 - Permits Required

62-210.370 - Reports

62-210.650 - Circumvention

62-210.700 - Excess Emissions

62-212.300 - Permits Required

62-213.205 - Annual Emissions Fee

62-213.400 - Permits and Permit Revisions Required

62-213.410 - Changes without Permit Revision

62-213.460 - Permit Shield

**ATTACHMENT 6**

**FACILITY COMPLIANCE REPORT**

**ATTACHMENT 6**

**COMPLIANCE REPORT AND PLAN**

This is an initial application for a Title V Operations Permit; there are no known instances of non-compliance for any emissions unit at the A.C.M.S. Class I Landfill.

**ATTACHMENT 7**

**FUEL ANALYSIS AND SPECIFICATION**

ATTACHMENT 7

**FUEL ANALYSIS AND SPECIFICATION**

This item is not applicable as the emissions unit is not a fuel-combustion device.

**ATTACHMENT 8**

**DETAILED DESCRIPTION OF CONTROL EQUIPMENT**

**ATTACHMENT 8**

**DETAILED DESCRIPTION OF CONTROL EQUIPMENT**

This item is not applicable as there is no control equipment associated with the emissions unit.

**ATTACHMENT 9**

**PROCEDURES FOR STARTUP AND SHUTDOWN**



**ATTACHMENT 9**

**PROCEDURES FOR STARTUP AND SHUTDOWN**

This item is not applicable as there are no periods of startup and shutdown associated with the emissions unit.