



**SOUTH FLORIDA ENVIRONMENTAL SERVICES**  
*Air Quality Specialists*

## **VISIBLE EMISSIONS TEST REPORT**

**PREPARED FOR:** SPECIALTY VERMICULITE CORP.  
1200 NW 15<sup>TH</sup> AVENUE  
POMPANO BEACH, FL 33069

**CONCERNING:** VE TESTING ON VERMICULITE PROCESSING PLANT  
1200 NW 15<sup>TH</sup> AVENUE  
POMPANO BEACH, FL 33069  
FACILITY ID: 0110003

**DATE OF TEST:** OCTOBER 1, 2013

**PREPARED BY:** SOUTH FLORIDA ENVIRONMENTAL SERVICES, LLC  
2257 VISTA PARKWAY, SUITE 25  
WEST PALM BEACH, FLORIDA 33411

**SFES REPORT #:** 13-552



**SOUTH FLORIDA ENVIRONMENTAL SERVICES**  
*Air Quality Specialists*

## **VISIBLE EMISSIONS TEST REPORT**

### **PREPARED FOR:**

Specialty Vermiculite Corp.  
1200 NW 15<sup>th</sup> Avenue  
Pompano Beach, FL 33069

### **CONCERNING:**

Visible Emissions Compliance Test  
Specialty Vermiculite Corp.  
1200 NW 15<sup>th</sup> Avenue  
Pompano Beach, FL 33069

### **PREPARED BY:**

South Florida Environmental Services, LLC.  
2257 Vista Parkway, Suite 25  
West Palm Beach, Florida 33411

I hereby certify that the information contained in this report is true and accurate to the best of my knowledge.

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Francis K Morlu  
Project Manager

Oct. 14, 2013  
Date

**COMPENDIUM:**

On October 1, 2013 South Florida Environmental Services performed compliance testing for visible emissions on behalf of Specialty Vermiculite Corp. at their vermiculite and perlite processing plant in Pompano Beach, Florida. The test was conducted on the vermiculite expanding, perlite expanding, and product mixing stacks. During compliance tests the baghouses servicing these emission points were observed to be operating normally.

All testing and data reduction were conducted in accordance with EPA Method 9 as found in 40 CFR 60 Appendix A, as amended.

Francis K Morlu of South Florida Environmental Services was the certified visible emissions evaluator, while Mr. Douglas Powling was responsible for plant operations.

The results of the test are summarized in Table 1, and show that all emissions control units are in compliance with State and County statutes as mandated by the facility's permit to operate.

**Table 1: Summary of Results**

<b>Location</b>	<b>Highest Six Minute Average</b>	<b>Overall Opacity</b>	<b>Limiting Standard</b>
North Stack (Vermiculite)	0.0%	0.0%	20%
Middle Stack (Perlite)	0.0%	0.0%	20%
South Stack (Product)	0.0%	0.0%	20%



**VISIBLE EMISSIONS TEST REPORT**  
Field Data Sheets



**EPA METHOD 9 (40 CFR 60 - Appendix A)  
VISIBLE EMISSION OBSERVATION FORM**

COMPANY NAME  
**SPECIALTY VERMICULITE CORP**

LOCATION  
**1200 N.W. 15TH AVENUE**

CITY **POMPADOUR** STATE **FL** ZIP **33069**

PROCESS EQUIPMENT **PERLITE EXPANDING** OPERATING MODE **NORMAL**

CONTROL EQUIPMENT **BAGHOUSE** OPERATING MODE **NORMAL**

DESCRIBE EMISSION POINT  
**EXIT OR VENT  
MIDDLE OF ROOF**

HEIGHT OF EMISSION POINT **48** HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER  
START **48** END **48**

DISTANCE TO EMISSION POINT **345** DIRECTION TO EMISSION PT. (DEGREES 0-360)  
START **68** END **68**

VERTICAL ANGLE TO OBSERVATION POINT **8** DIRECTION TO OBSERVATION POINT (DEGREES 0-360)  
START **68** END **68**

DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT  
START **345 @ 68** END **SAME**

DESCRIBE EMISSIONS  
START **NONE** END **NONE**

EMISSION COLOR **N/A** WATER DROPLET PLUME  
START **N/A** END **N/A** ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND  
START **SKY** END **SKY**

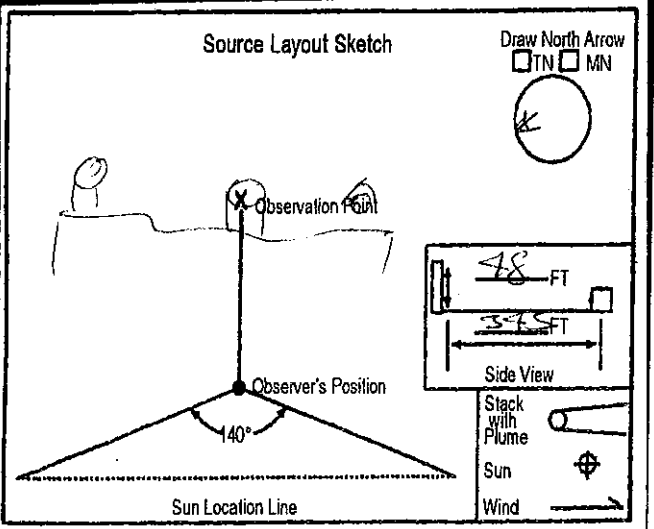
BACKGROUND COLOR **Blue** SKY CONDITIONS **SCATTERED**  
START **Blue** END **Blue** START **SCATTERED** END **SAME**

WIND SPEED **0-12** WIND DIRECTION **E**  
START **0-12** END **0-12** START **E** END **E**

AMBIENT TEMP **86** WET BULB TEMP RH percent  
START **86** END **86**

OBSERVATION DATE **10/1/13** START TIME **13:11** END TIME **13:41**

MIN	SEC				COMMENTS
	0	15	30	45	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	



OBSERVER'S NAME (PRINT) **FRANCIS K. MORLEY**

OBSERVER'S SIGNATURE **[Signature]** DATE **10/1/13**

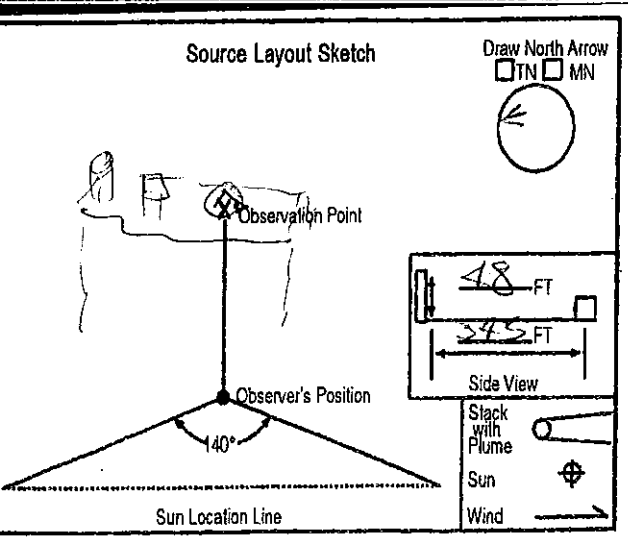
ORGANIZATION **SPCS**

CERTIFIED BY **ETA** DATE **7/10/13**

ADDITIONAL INFORMATION

**EPA METHOD 9 (40 CFR 60 - Appendix A)  
VISIBLE EMISSION OBSERVATION FORM**

COMPANY NAME <i>SPECIALTY VERMICULITE CORP</i>		
LOCATION <i>1200 NW 15<sup>TH</sup> AVENUE</i>		
LOCATION		
CITY <i>POMPADOUR</i> <i>BEACH</i>	STATE <i>FL</i>	ZIP <i>33069</i>
PROCESS EQUIPMENT <i>PRODUCT MIXING</i>	OPERATING MODE <i>NORMAL</i>	
CONTROL EQUIPMENT <i>BAGHOUSE</i>	OPERATING MODE <i>NORMAL</i>	
DESCRIBE EMISSION POINT <i>EXIT OF STACK</i> <i>ON SOUTH END OF ROOF TOP</i>		
HEIGHT OF EMISSION POINT <i>48</i>	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START <i>4.8</i> END <i>4.8</i>	
DISTANCE TO EMISSION POINT <i>345</i>	DIRECTION TO EMISSION PT. (DEGREES (0-360)) START <i>68</i> END <i>68</i>	
VERTICAL ANGLE TO OBSERVATION POINT START <i>8</i> END <i>8</i>	DIRECTION TO OBSERVATION POINT (DEGREES (0-360)) START <i>68</i> END <i>68</i>	
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START <i>345 @ 68</i> END <i>SAME</i>		
DESCRIBE EMISSIONS START <i>NONE</i> END <i>NONE</i>		
EMISSION COLOR START <i>N/A</i> END <i>N/A</i>	WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/> NONE <input type="checkbox"/>	
DESCRIBE PLUME BACKGROUND START <i>SKY</i> END <i>SKY</i>		
BACKGROUND COLOR START <i>BLUE</i> END <i>SAME</i>	SKY CONDITIONS START <i>SCATTERED</i> END <i>SAME</i>	
WIND SPEED START <i>0-12</i> END <i>0-12</i>	WIND DIRECTION START <i>E</i> END <i>E</i>	
AMBIENT TEMP START <i>86</i> END <i>86</i>	WET BULB TEMP RH percent	



ADDITIONAL INFORMATION

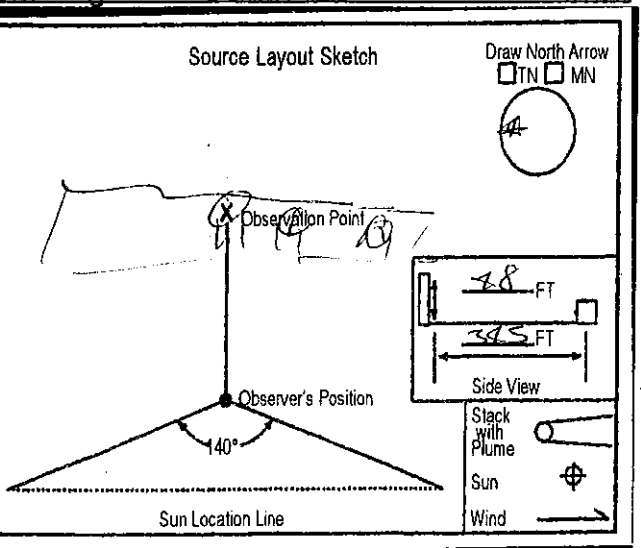
OBSERVATION DATE <i>10/11/13</i>	START TIME <i>13:11</i>	END TIME <i>13:41</i>
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MIN	SEC				COMMENTS
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1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT) <i>FRANCIS K. MORLU</i>	DATE
OBSERVER'S SIGNATURE <i>F.K. Morlu</i>	DATE
ORGANIZATION <i>SFES</i>	
CERTIFIED BY <i>ETA</i>	DATE <i>7/10/13</i>

**EPA METHOD 9 (40 CFR 60 - Appendix A)  
VISIBLE EMISSION OBSERVATION FORM**


COMPANY NAME <b>SPECIALTY VERMICULITE CORP</b>		
LOCATION <b>1200 N.W. 15<sup>TH</sup> AVENUE</b>		
LOCATION		
CITY/COMMUNO <b>BEACH</b>	STATE <b>FL</b>	ZIP <b>33069</b>
PROCESS EQUIPMENT <b>VERMICULITE EXP.</b>	OPERATING MODE <b>NORMAL</b>	
CONTROL EQUIPMENT <b>BAGHOUSE</b>	OPERATING MODE <b>NORMAL</b>	
DESCRIBE EMISSION POINT <b>EXIT OF VENT</b>		
<b>ON ROOF TOP</b>		
HEIGHT OF EMISSION POINT <b>48</b>	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START <b>48</b> END <b>48</b>	
DISTANCE TO EMISSION POINT START <b>345</b> END <b>345</b>	DIRECTION TO EMISSION PT. (DEGREES 0-360)) START <b>60</b> END <b>60</b>	
VERTICAL ANGLE TO OBSERVATION POINT START <b>8</b> END <b>8</b>	DIRECTION TO OBSERVATION POINT (DEGREES 0-360)) START <b>60</b> END <b>60</b>	
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START <b>345 @ 60</b> END <b>SAME</b>		
DESCRIBE EMISSIONS START <b>NONE</b> END <b>NONE</b>		
EMISSION COLOR START <b>BLUE</b> END <b>BLUE</b>	WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/> NONE <input checked="" type="checkbox"/>	
DESCRIBE PLUME BACKGROUND START <b>SKY</b> END <b>SKY</b>		
BACKGROUND COLOR START <b>BLUE</b> END <b>SAME</b>	SKY CONDITIONS START <b>SCATTERED</b> END <b>SAME</b>	
WIND SPEED START <b>0-12</b> END <b>0-12</b>	WIND DIRECTION START <b>E</b> END <b>E</b>	
AMBIENT TEMP START <b>86</b> END <b>86</b>	WET BULB TEMP RH percent	



ADDITIONAL INFORMATION

OBSERVATION DATE <b>10/1/13</b>	START TIME <b>13:11</b>	END TIME <b>13:41</b>
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MIN	SEC				COMMENTS
	0	15	30	45	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT) <b>RICHARD K. MORLEY</b>	DATE <b>10/1/13</b>
OBSERVER'S SIGNATURE 	DATE <b>10/1/13</b>
ORGANIZATION <b>SPCS</b>	
CERTIFIED BY <b>ETA</b>	DATE <b>7/10/13</b>

**VISIBLE EMISSIONS EVALUATOR CERTIFICATE**







# VISIBLE EMISSIONS EVALUATOR

**Francis Morlu**

This is to certify that the above named observer has met the specifications of Federal Reference Method 9 and is qualified as a visible emissions evaluator. Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 15% opacity was incurred during the certification test conducted by Eastern Technical Associates, Inc. of Raleigh, N.C.

This certificate is valid for six months from date of issue.

**413488**

Certificate Number

**MOR522312**

Student ID Number

**7/10/2013**

Date of Certification

**West Palm Beach, FL**

Location

**1/9/2014**

Certification Expiration Date

**ORLF10**

Last Lecture

*Marty Hughes*  
**Director of Training**