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BUREAU OF AIR REGULATION

**VISIBLE EMISSIONS TEST REPORT**

**PREPARED FOR:**

**Crusher Contractors**

**135 Timber Lane**

**Jupiter, FL 33458**

**TEST SITE:**

**Community Asphalt**

**7795 Hooper Road**

**West Palm Beach, FL**

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

  
Eugene D Schaltenbrand, PE

2 Apr 01  
Date

**Crusher Contractors  
Jupiter, FL**

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**Brooks & Associates  
5068 NW 85<sup>th</sup> Rd.  
Coral Springs, FL 33067**

## **1.0 SUMMARY**

Brooks & Associates conducted a visible emissions tests on 2 April 2001 at Crusher Contractors job site located on Community Asphalt property at 7795 Hooper Road West Palm Beach, FL.

The tests were conducted in strict accordance with the Environmental Protection Agency's Method 9 as described in 40CFR60 Appendix A, as amended and modified by Florida State Code. These tests were conducted to ~~comply with the~~ conditions set forth in Crusher Contractors operating permit, 7775057-002-AO, by the Florida Department of Environmental Protection, and to determine compliance with Chapter 62-296 and 62-297 of the Florida Administrative Code.

The Kemco Dynabreaker portable crusher was operating at its maximum capacity of two hundred (200) tons per hour during the tests on 2 April 2001. All eight emission points observed had average opacities of 0% for the test.

Eugene Schaltenbrand was the Certified Emissions Evaluator. Eugene Schaltenbrand was responsible for the overall testing program and preparation of this report. Eugene Schaltenbrand coordinated the test with Palm Beach County Health Dept. PBCHD was represented by Mr. David Brown. Mr. Scott Boeglin represented Crusher Contractors.

## **2.0 DESCRIPTION OF SAMPLING LOCATIONS**

The Kemco Dynabreaker portable crusher operated by Crusher Contractors consists of four distinct sections. The first section includes the large diesel engine (Emission Unit #2), the crusher itself (#1 on the flow diagram) and a short crusher conveyor (#2 on the flow diagram). The second section includes the small diesel engine (Emission Unit #3), conveyors #2 & #3, and the screen. Because of their proximity conveyor #3 and the screen were tested as one point. The third section is conveyor #4 and the fourth section is conveyor #5.

The photographs in Section 6.0 of this report were taken from the Observer's Position on 2 April 2001

**Crusher Contractors  
Jupiter, FL**

**3.0 VISIBLE EMISSIONS OBSERVATIONS FORMS- FIELD  
DATA**

**Brooks & Associates  
5068 NW 85<sup>th</sup> Rd.  
Coral Springs, FL 33067**

**VISIBLE EMISSION OBSERVATION FORM 1**

Method (check Circle One)  
 Method 1 200A 200B Other \_\_\_\_\_

Company Name  
 Facility Name **Crusher Contractors**  
 Street Address **Community Asphalt**  
**7795 Hooper Road**  
 City **West Palm Beach, FL 33411-3830**

Process CRUSHER Unit # 1 Operating Mode DESIGN  
 Control Equipment \_\_\_\_\_ Operating Mode \_\_\_\_\_  
 Name \_\_\_\_\_

Describe Emission Point  
ONLY CRUSHER ON MACHINE

Height of Emis. Pt.  
 Start 12' End 12' Height of Emis. Pt. Rel. to Observer  
 Start 8' End 8'  
 Distance to Emis. Pt.  
 Start 62' End 62' Direction to Emis. Pt. (Degrees)  
 Start 260 End 260

Vertical Angle to Obs. Pt.  
 Start \_\_\_\_\_ End \_\_\_\_\_ Direction to Obs. Pt. (Degrees)  
 Start 260 End 260  
 Distance and Direction to Observation Point from Emission Point  
 Start \_\_\_\_\_ End \_\_\_\_\_

Describe Emitters  
 Start Clear/None End Clear/None  
 Emission Color \_\_\_\_\_ Water Droplet Plume \_\_\_\_\_  
 Start \_\_\_\_\_ End \_\_\_\_\_ Attached  Detached  None

Describe Plume Background  
 Start SKY End SKY  
 Background Color \_\_\_\_\_ Sky Conditions \_\_\_\_\_  
 Start Blue End Blue Start 0 End 0  
 Wind Speed \_\_\_\_\_ Wind Direction \_\_\_\_\_  
 Start 3-5 End 3-5 Start N End N  
 Ambient Temp. \_\_\_\_\_ Wet Bulb Temp. \_\_\_\_\_  
 Start 70 End 71 66 50

Source Layout Sketch  
 Draw North Arrow  TN  MN

Observer's Position  
 140°  
 Site Location Line

Scale View  
 12 FEET  
 62 FEET

Stack With Plume  
 Sun  
 Wind

Longitude 80° 10.291' Latitude 26° 41.022' Declination \_\_\_\_\_

Additional Information  
Production Rate 200 tph

Form Number \_\_\_\_\_ Page 01  
 Continued on VEO Form Number \_\_\_\_\_

Observation Date	Time Zone				Start Time	End Time	Comments
	Sec	0	15	30			
<u>2 Apr 01</u>					<u>0933</u>	<u>1003</u>	
Min	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			
8	0	0	0	0			
9	0	0	0	0			
10	0	0	0	0			
11	0	0	0	0			
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25	0	0	0	0			
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) Eugene D. Schattenbrand  
 Observer's Signature \_\_\_\_\_ Date 2 Apr 01  
 Organization Brooks & Associates  
 Certified By ETA Date \_\_\_\_\_

**Brooks & Associates, Inc.**  
Engineering and Environmental Consulting

**VISIBLE EMISSION OBSERVATION FORM 1**

Method Used (Circle One)  
 Method  203A  203B  Other \_\_\_\_\_

Company Name  
**Crusher Contractors**  
 Facility Name  
**Community Asphalt**  
 Street Address  
**7795 Hooper Road**  
 City  
**West Palm Beach, FL 33411-3830**

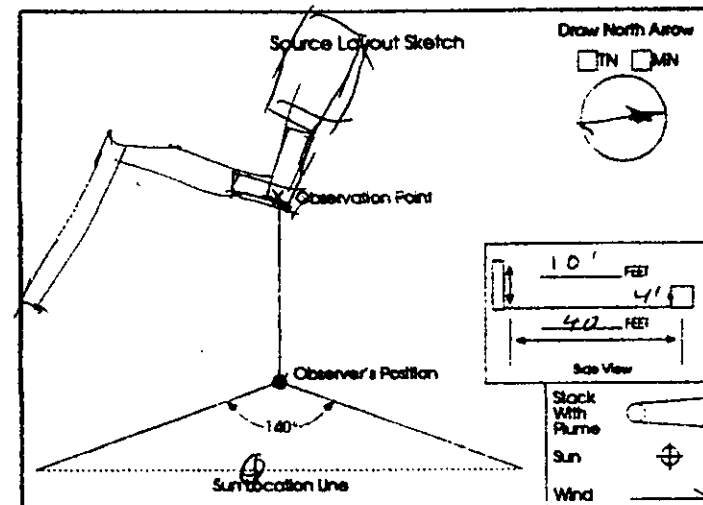
Process  
*Crusher #1* Unit # *1* Operating Mode  
*200 tph*  
 Control Equipment Operating Mode

Describe Emission Point  
*Main Crusher from under  
 crusher*  
 Height of Emiss. Pt. Start *10'* End \_\_\_\_\_ Height of Emiss. Pt. Rel. to Observer Start *6'* End \_\_\_\_\_  
 Direction to Emiss. Pt. (Degrees) Start \_\_\_\_\_ End \_\_\_\_\_  
 Distance to Emiss. Pt. Start *40'* End \_\_\_\_\_ Direction to Emiss. Pt. (Degrees) Start *250°* End \_\_\_\_\_

Vertical Angle to Obs. Pt. Start \_\_\_\_\_ End \_\_\_\_\_ Direction to Obs. Pt. (Degrees) Start *250°* End \_\_\_\_\_  
 Distance and Direction to Observation Point from Emission Point Start \_\_\_\_\_ End *210*

Describe Emissions  
 Start *Clear/None* End *Clear/None*  
 Emission Color Water Droplet Plume  
 Start \_\_\_\_\_ End \_\_\_\_\_ Attached  Detached  None

Describe Plume Background  
 Start *SKY* End *SKY*  
 Background Color Sky Conditions  
 Start *Blue* End *Blue* Start *0* End *0*  
 Wind Speed Wind Direction  
 Start *3-5* End *5-7* Start *N* End *N*  
 Ambient Temp. Wet Bulb Temp. RH Percent  
 Start *71* End \_\_\_\_\_ Start *66* End \_\_\_\_\_



Longitude *80° 10.285'* Latitude *26° 41.95'* Declination

Additional Information

Form Number \_\_\_\_\_ Page *01*  
 Continued on VEO Form Number \_\_\_\_\_

Min	Time Zone				Start Time	End Time	Comments
	Sec	0	15	30			
1	0	0	0	0	10:10	10:18	
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6	0	0	0	0			
7	0	0	0	0			
8	0	0	0	0			
9	0	0	0	0			
10	0	0	0	0			
11	0	0	0	0			
12	0	0	0	0			
13	0	0	0	0			Shut down to
14	0	0	0	0			move P.I.G.
15	0	0	0	0			
16	0	0	0	0			
17	0	0	0	0			
18	0	0	0	0			
19	0	0	0	0			
20	0	0	0	0			
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24	0	0	0	0			
25	0	0	0	0			
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) **Eugene D. Schaltenbrand**  
 Observer's Signature \_\_\_\_\_ Date *2 Apr 01*  
 Organization **Brooks & Associates**  
 Certified by **ETA** Date *2 Apr 01*

**Brooks & Associates, Inc.**  
**Engineering and Environmental Consulting**

**VISIBLE EMISSION OBSERVATION FORM 1**

Method Used (Circle One)  
 Method 9 203A 203B Other \_\_\_\_\_

Company Name  
**Crusher Contractors**  
 Facility Name  
**Community Asphalt**  
 Street Address  
**7795 Hooper Road**  
 City  
**West Palm Beach, FL 33411-3830**

Process  
Emulsion Unit # 2 Operating Mode  
Design  
 Control Equipment  
None Operating Mode

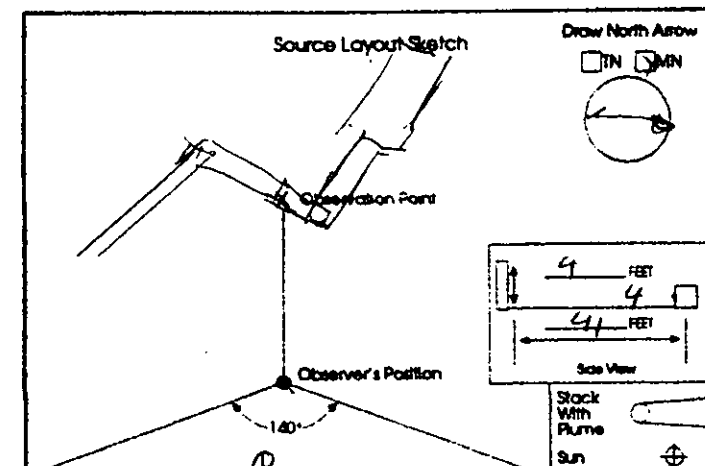
Describe Emission Point  
Second crusher from crusher

Height of Emiss. Pt.  
 Start 4' End 4' Height of Emiss. Pt. Rel. to Observer  
 Start 0' End 0'  
 Distance to Emiss. Pt.  
 Start 4' End 4' Direction to Emiss. Pt. (Degree)  
 Start 275 End 275

Vertical Angle to Obs. Pt.  
 Start \_\_\_\_\_ End \_\_\_\_\_ Direction to Obs. Pt. (Degree)  
 Start 275 End 275  
 Distance and Direction to Observation Point from Emission Point  
 Start 0/0 End 0/0

Describe Emissions  
 Start Clear/None End Clear/None  
 Emission Color  
 Water Droplet Plume  
 Start \_\_\_\_\_ End \_\_\_\_\_ Attached  Detached  None

Describe Plume Background  
 Start Scrap Pile End Scrap Pile  
 Background Color  
 Sky Condition  
 Start Blue End Blue Start 0 End 0  
 Wind Speed  
 Wind Direction  
 Start 3-5 End 5-7 Start N End N  
 Ambient Temp.  
 Wet Bulb Temp.  
 Start 41 End \_\_\_\_\_ Start 66 \_\_\_\_\_



Longitude 80° 10.785' Latitude 26° 41.015' Declination

Additional Information  
200 tph production Rate

Form Number \_\_\_\_\_ Page 01  
 Continued on VEO Form Number \_\_\_\_\_

Min	Time Zone				Start Time	End Time	Comments
	Sec	0	15	30			
					<u>1010</u>	<u>1028</u>	
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3	0	0	0	0			
4	0	0	0	0			
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7	0	0	0	0			
8	0	0	0	0			
9	0	0	0	0			
10	0	0	0	0			
11	0	0	0	0			
12	0	0	0	0			
13	0	0	0	0			
14	0	0	0	0			<u>Shut down</u>
15	0	0	0	0			<u>to main pile</u>
16	0	0	0	0			
17	0	0	0	0			
18	0	0	0	0			
19	0	0	0	0			
20	0	0	0	0			
21	0	0	0	0			
22	0	0	0	0			
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25	0	0	0	0			
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) Eugene D. Schaltenbrand  
 Observer's Signature \_\_\_\_\_ Date 2 Apr 01  
 Organization Brooks & Associates  
 Certified By ETA Date 2 Apr 01



**Brooks & Associates, Inc.**  
**Engineering and Environmental Consulting**

**VISIBLE EMISSION OBSERVATION FORM 1**

Method Used (Circle One)  
 Method 9      203A      203B      Other \_\_\_\_\_

Company Name  
**Crusher Contractors**  
 Facility Name  
**Community Asphalt**  
 Street Address  
**7795 Hooper Road**  
 City  
**West Palm Beach, FL 33411-3830**

Process  
**Crusher & Screen**      Unit # **3**      Operating Mode  
**200 tph**  
 Control Equipment  
**Operating Mobile**

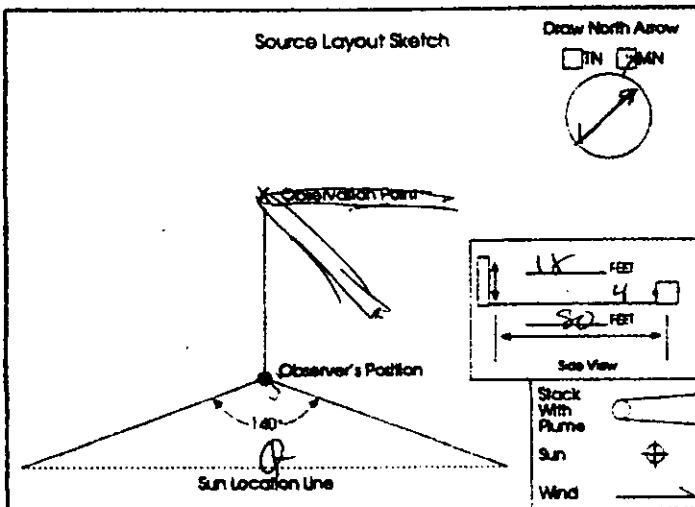
Describe Emission Point  
**See picture**

Height of Emis. Pt.  
 Start **18'** End **18'**      Height of Emis. Pt. Rel. to Observer  
 Start **14'** End **14'**  
 Distance to Emis. Pt.  
 Start **80** End **80**      Direction to Emis. Pt. (Degrees)  
 Start **305** End **305**

Vertical Angle to Obs. Pt.  
 Start \_\_\_\_\_ End \_\_\_\_\_      Direction to Obs. Pt. (Degrees)  
 Start **305** End **305**  
 Distance and Direction to Observation Point from Emission Point  
 Start **0/0** End **0/0**

Describe Emissions  
 Start **Clear/None** End **Clear/None**  
 Emission Color  
 Water Droplet Plume  
 Start \_\_\_\_\_ End \_\_\_\_\_      Attached  Detached  None

Describe Plume Background  
 Start **SKY** End **SKY**  
 Background Color  
 Start **Blue** End **Blue**      Sky Conditions  
 Start **0** End **0**  
 Wind Speed  
 Start **5-7** End **5-7**      Wind Direction  
 Start **N** End **N**  
 Ambient Temp.  
 Start **78** End **78**      Wet Bulb Temp.  
 Start **66** End **66**      RH Percent  
 Start **53** End **53**



Longitude **80° 10.282'**      Latitude **26° 41.003'**      Declination

Additional Information

Form Number \_\_\_\_\_ Page **01**  
 Continued on VEO Form Number \_\_\_\_\_

Observation Date	Time Zone				Start Time	End Time	Comments
	Sec	0	15	30			
<b>2 Apr 01</b>					<b>1105</b>	<b>1135</b>	
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2	0	0	0	0			
3	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) **Eugene D. Schaltenbrand**  
 Observer's Signature \_\_\_\_\_ Date **2 Apr 01**  
 Organization **Brooks & Associates**  
 Certified by **ETA** Date **2 Apr 01**

**Brooks & Associates, Inc.**  
Engineering and Environmental Consulting

**VISIBLE EMISSION OBSERVATION FORM 1**

Method Used (Circle One)  
 Method 203A 203B Other \_\_\_\_\_

Company Name  
 Facility Name **Crusher Contractors**  
 Street Address **Community Asphalt**  
**7795 Hooper Road**  
 City **West Palm Beach, FL 33411-3830**

Process Crusher Unit # 4 Operating Mode 200 tph  
 Control Equipment \_\_\_\_\_ Operating Mode \_\_\_\_\_

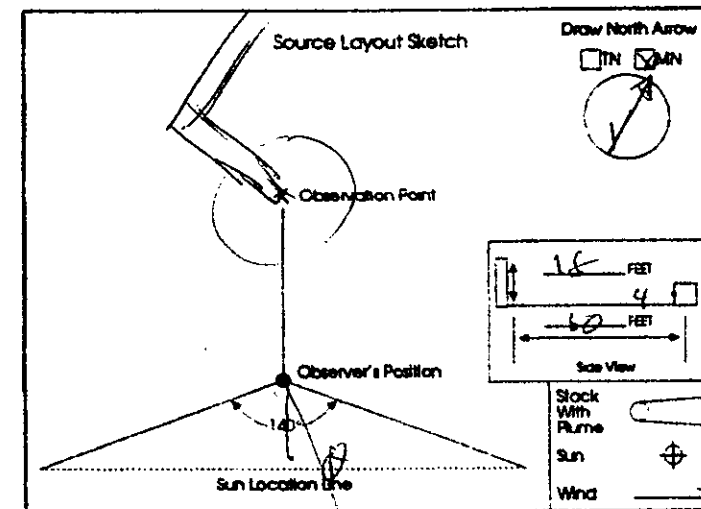
Describe Emission Point  
Final Crusher in System

Height of Emis. Pt. Start 15' End 15' Height of Emis. Pt. Rel. to Observer Start 14' End 14'  
 Distance to Emis. Pt. Start 50 End 50 Direction to Emis. Pt. (Degrees) Start 330 End 330

Vertical Angle to Obs. Pt. Start \_\_\_\_\_ End \_\_\_\_\_ Direction to Obs. Pt. (Degrees) Start 330 End 330  
 Distance and Direction to Observation Point from Emission Point Start 0/0 End 0/0

Describe Emissions Start Clear/None End Clear/None  
 Emission Color Water Droplet Plume Attached  Detached  None

Describe Plume Background Start SKY End SKY  
 Background Color Sky Conditions Start 0 End 0  
 Wind Speed Start 5-7 End 5-7 Wind Direction Start N End N  
 Ambient Temp. Start 78 End 78 Wet Bulb Temp. Start 66 End 73



Longitude 80° 10.282' Latitude 26° 41.003' Declination \_\_\_\_\_

Additional Information \_\_\_\_\_

Form Number \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_  
 Continued on VEO Form Number \_\_\_\_\_

Min	Time Zone				Start Time	End Time	Comments
	Sec	0	15	30			
					<u>1101</u>	<u>1131</u>	
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4	0	0	0	0			
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24	0	0	0	0			
25	0	0	0	0			
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) **Eugene D. Schaltenbrand**  
 Observer's Signature \_\_\_\_\_ Date 2 Apr 01  
 Organization **Brooks & Associates**  
 Certified By **ETA** Date Jun 01

**Brooks & Associates, Inc.**  
**Engineering and Environmental Consulting**

**VISIBLE EMISSION OBSERVATION FORM 1**

Method Used (Circle One)  
 Method P 203A 203B Other \_\_\_\_\_

Company Name  
 Facility Name **Crusher Contractors**  
 Street Address **Community Asphalt**  
**7795 Hooper Road**  
 City **West Palm Beach, FL 33411-3830**

Process Refract. Converter Unit # 5 Operating Mode Down  
 Control Equipment None Operating Mode \_\_\_\_\_

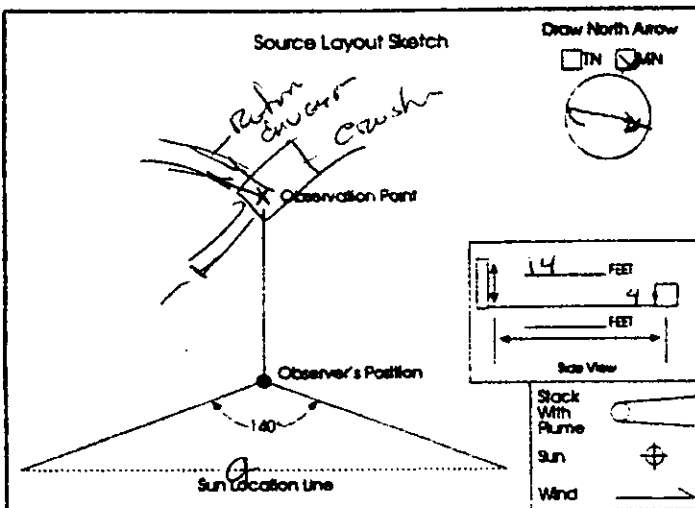
Describe Emission Point  
ONLY Converter feeding crusher

Height of Emiss. Pt. Start 14' End 14' Height of Emiss. Pt. Rel. to Observer Start 10' End 10'  
 Distance to Emiss. Pt. Start 60' End 60' Direction to Emiss. Pt. (Degrees) Start 255 End 255

Vertical Angle to Obs. Pt. Start \_\_\_\_\_ End \_\_\_\_\_ Direction to Obs. Pt. (Degrees) Start 255 End 255  
 Distance and Direction to Observation Point from Emission Point Start 40 End 40

Describe Emissions  
 Start Clear/None End Clear/None  
 Emission Color \_\_\_\_\_ Water Droplet Plume \_\_\_\_\_  
 Start \_\_\_\_\_ End \_\_\_\_\_ Attached  Detached  None

Describe Plume Background  
 Start SKY End SKY  
 Background Color \_\_\_\_\_ Sky Conditions \_\_\_\_\_  
 Start Blue End Blue Start \_\_\_\_\_ End \_\_\_\_\_  
 Wind Speed \_\_\_\_\_ Wind Direction \_\_\_\_\_  
 Start 3-5 End 3-5 Start N End N  
 Ambient Temp. \_\_\_\_\_ Wet Bulb Temp. \_\_\_\_\_ RH Percent \_\_\_\_\_  
 Start 70 End 71 Start 66 End 50



Longitude 80°-10.291' Latitude 26°-41.022' Declination \_\_\_\_\_

Additional Information  
Production 200 tph

Form Number \_\_\_\_\_ Page 01  
 Continued on VEO Form Number \_\_\_\_\_

Observation Date	Time Zone	Start Time	End Time						
<u>2/27/01</u>	<u>FEDT</u>	<u>0933</u>	<u>1003</u>						
Sec	0	15	30	45	Comments				
Min									
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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25	0	0	0	0					
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) Eugene D. Schaltenbrand  
 Observer's Signature [Signature] Date 02/27/01  
 Organization Brooks & Associates  
 Certified By ETA Date Jan 01

Scott

# Brooks & Associates, Inc. Engineering and Environmental Consulting

## VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)  
 Method 9    203A    2038    Other \_\_\_\_\_

Company Name  
**Crusher Contractors**  
 Facility Name  
**Community Asphalt**  
 Street Address  
**7795 Hooper Road**  
 City  
**West Palm Beach, FL 33411-3830**

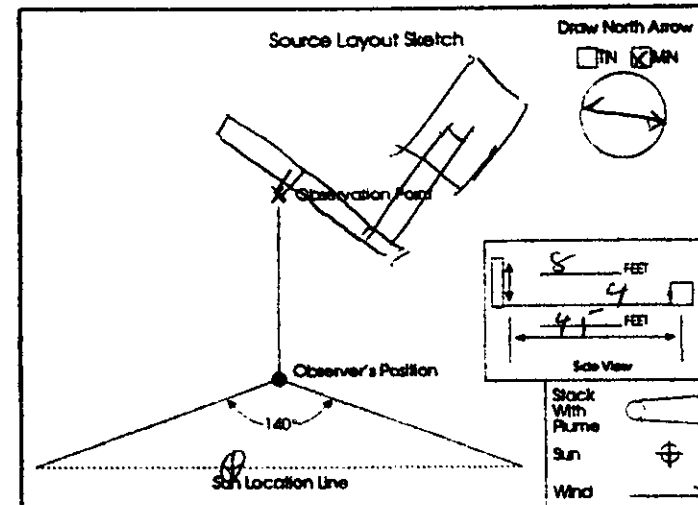
Process  
**Diesel (Cet)**    Unit # **2**    Operating Mode  
**200 tph**  
 Control Equipment  
**None**    Operating Mode

Describe Emission Point  
**Small Diesel under canopy**  
**# 3**  
 Height of Emiss. Pt.  
 Start **8'**    End **8'**    Height of Emiss. Pt. Rel. to Observer  
 Start **4'**    End \_\_\_\_\_  
 Distance to Emiss. Pt.  
 Start **45'**    End **41'**    Direction to Emiss. Pt. (Degrees)  
 Start **260**    End **260**

Vertical Angle to Obs. Pt.  
 Start \_\_\_\_\_    End \_\_\_\_\_    Direction to Obs. Pt. (Degrees)  
 Start **260**    End **260**  
 Distance and Direction to Observation Point from Emission Point  
 Start **9/4**    End **9/6**

Describe Emissions  
 Start **Clear/None**    End **Clear/None**  
 Emission Color  
 Start \_\_\_\_\_    End \_\_\_\_\_    Water Droplet Plume  
 Attached     Detached     None

Describe Plume Background  
 Start **Canopy Frame**    End **Canopy Frame**  
 Background Color  
 Start **Gray**    End **Gray**    Sky Conditions  
 Start **0**    End **0**  
 Wind Speed  
 Start **3-5**    End **5-7**    Wind Direction  
 Start **N**    End **N**  
 Ambient Temp.  
 Start **71**    End \_\_\_\_\_    Wet Bulb Temp.  
 Start **66**    End \_\_\_\_\_    RH Percent



Longitude **80° 10.285'**    Latitude **26° 41.015'**    Declination

Additional Information

Form Number \_\_\_\_\_ Page **01**  
 Continued on VEO Form Number \_\_\_\_\_

Observation Date	Time Zone	Start Time	End Time						
<b>2 Apr 07</b>	<b>EDT</b>	<b>10:10</b>	<b>10:58</b>	Sec	0	15	30	45	Comments
Min	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					
8	0	0	0	0					
9	0	0	0	0					
10	0	0	0	0					
11	0	0	0	0					
12	0	0	0	0					
13	0	0	0	0					shut down to
14	0	0	0	0					main pile
15	0	0	0	0					
16	0	0	0	0					
17	0	0	0	0					
18	0	0	0	0					
19	0	0	0	0					
20	0	0	0	0					
21	0	0	0	0					
22	0	0	0	0					
23	0	0	0	0					
24	0	0	0	0					
25	0	0	0	0					
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) **Eugene D. Schaltenbrand**  
 Observer's Signature \_\_\_\_\_ Date **2 Apr 07**  
 Organization **Brooks & Associates**  
 Certified By **ETA** Date **June 1**

**VISIBLE EMISSION OBSERVATION FORM 1**

Method Used (Circle One)  
 Method 23A 2008 Other \_\_\_\_\_

Company Name  
**Crusher Contractors**  
 Facility Name  
**Community Asphalt**  
 Street Address  
**7795 Hooper Road**  
 City  
**West Palm Beach, FL 33411-3830**

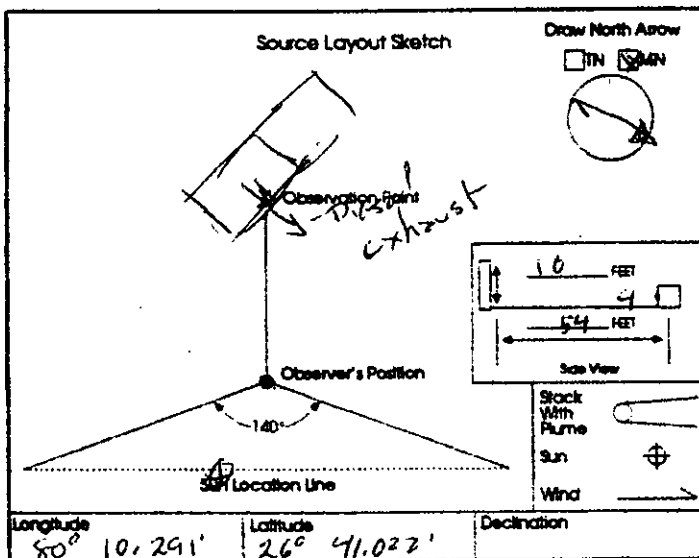
Process  
DIESEL (Cummins) Unit # 3 Operating Mode  
DESIGN  
 Control Equipment Operating Mode

Describe Emission Point  
EXHAUST STACK DISCHARGING  
HORIZONTAL  
 Height of Emiss. Pt.  
 Start 10' End 10' Height of Emiss. Pt. Rel. to Observer  
 Start 6' End 6'  
 Distance to Emiss. Pt.  
 Start 54' End 54' Direction to Emiss. Pt. (Degrees)  
 Start 250 End 250

Vertical Angle to Obs. Pt.  
 Start \_\_\_\_\_ End \_\_\_\_\_ Direction to Obs. Pt. (Degrees)  
 Start 250 End 250  
 Distance and Direction to Observation Point from Emission Point  
 Start \_\_\_\_\_ End \_\_\_\_\_

Describe Emissions  
 Start CLEAR/None End Clear/None  
 Emission Color  
 Water Droplet Plume  
 Start \_\_\_\_\_ End \_\_\_\_\_ Attached  Detached  None

Describe Plume Background  
 Start MACHINERY End MACHINERY  
 Background Color  
 Start GRAY End GRAY Sky Conditions  
 Start 0 End 0  
 Wind Speed  
 Start 3-5 End 3-5 Wind Direction  
 Start N End N  
 Ambient Temp.  
 Start 70 End 71 Wet Bulb Temp.  
 Start 60 End 80



Additional Information

Form Number \_\_\_\_\_ Page 01  
 Continued on VEO Form Number \_\_\_\_\_

Min	Time Zone				Start Time	End Time
	0	15	30	45		
	EPT				0933	1003
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		
8	0	0	0	0		
9	0	0	0	0		
10	0	0	0	0		
11	0	0	0	0		
12	0	0	0	0		
13	0	0	0	0		
14	0	0	0	0		
15	0	0	0	0		
16	0	0	0	0		
17	0	0	0	0		
18	0	0	0	0		
19	0	0	0	0		
20	0	0	0	0		
21	0	0	0	0		
22	0	0	0	0		
23	0	0	0	0		
24	0	0	0	0		
25	0	0	0	0		
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) Eugene D. Scheltenbrand  
 Observer's Signature \_\_\_\_\_ Date 2 Apr 01  
 Organization Brooks & Associates  
 Certified By ETA Date 12/01

**Crusher Contractors  
Jupiter, FL**

## **4.0 COMPUTER INPUT SHEETS**

**Brooks & Associates  
5068 NW 85<sup>th</sup> Rd.  
Coral Springs, FL 33067**

**4-1**

**Crusher Contractors  
Jupiter, FL**

Owner  
Operator  
Crusher Contractors  
Same  
Emissions Unit #1  
Crusher

**Visible Emissions Field Data  
Computer Input Sheets**

2 Apr. 2001

Minute	0	15	30	45	6 Min Avg
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	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0	0	0	0	0

Limit Opacity 5%  
Maximum Observed Opacity 0%  
Maximum six minute average 0%

**Crusher Contractors  
Jupiter, FL**

Owner                   Crusher Contractors  
Operator                Same  
                              Emissions Unit #1  
                              Crusher Conveyor #1

**Visible Emissions Field Data  
Computer Input Sheets**

2 Apr. 2001

Minute	0	15	30	45	6 Min Avg
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	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0	0	0	0	0

Limit Opacity                   5%  
Maximum Observed Opacity   0%  
Maximum six minute average   0%



Crusher Contractors  
Jupiter, FL

Owner  
Operator  
Crusher Contractors  
Same  
Emissions Unit #1  
Conveyor #2

Visible Emissions Field Data  
Computer Input Sheets

2 Apr. 2001

Minute	0	15	30	45	6 Min Avg
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	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0	0	0	0	0

Limit Opacity 5%  
Maximum Observed Opacity 0%  
Maximum six minute average 0%

**Crusher Contractors  
Jupiter, FL**

Owner  
Operator  
Crusher Contractors  
Same  
Emissions Unit #1  
Conveyor #3 & Screen

**Visible Emissions Field Data  
Computer Input Sheets**

2 Apr. 2001

Minute	0	15	30	45	6 Min Avg
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	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0	0	0	0	0

Limit Opacity 5%  
Maximum Observed Opacity 0%  
Maximum six minute average 0%

Crusher Contractors  
Jupiter, FL

Owner  
Operator  
Crusher Contractors  
Same  
Emissions Unit #1  
Conveyor #4

Visible Emissions Field Data  
Computer Input Sheets

2 Apr. 2001

Minute	0	15	30	45	6 Min Avg
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	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0	0	0	0	0

Limit Opacity 5%  
Maximum Observed Opacity 0%  
Maximum six minute average 0%

Crusher Contractors  
Jupiter, FL

Owner                      Crusher Contractors  
Operator                    Same  
                                 Emissions Unit #1  
                                 Conveyor #5

Visible Emissions Field Data  
Computer Input Sheets

2 Apr. 2001

Minute	0	15	30	45	6 Min Avg
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	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0	0	0	0	0

Limit Opacity                      5%  
Maximum Observed Opacity      0%  
Maximum six minute average      0%

**Crusher Contractors  
Jupiter, FL**

Owner                    Crusher Contractors  
Operator                Same  
                             Emissions Unit #2  
                             Diesel Engine (Cat)

**Visible Emissions Field Data  
Computer Input Sheets**

2 Apr. 2001

Minute	0	15	30	45	6 Min Avg
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	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
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15	0	0	0	0	0
16	0	0	0	0	0
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18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0	0	0	0	0

Limit Opacity                    20%  
Maximum Observed Opacity    0%  
Maximum six minute average    0%

**Crusher Contractors  
Jupiter, FL**

Owner                      Crusher Contractors  
Operator                    Same  
                                 Emissions Unit #3  
                                 Diesel Engine (Cummings)

**Visible Emissions Field Data  
Computer Input Sheets**

2 Apr. 2001

Minute	0	15	30	45	6 Min Avg
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	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0	0	0	0	0

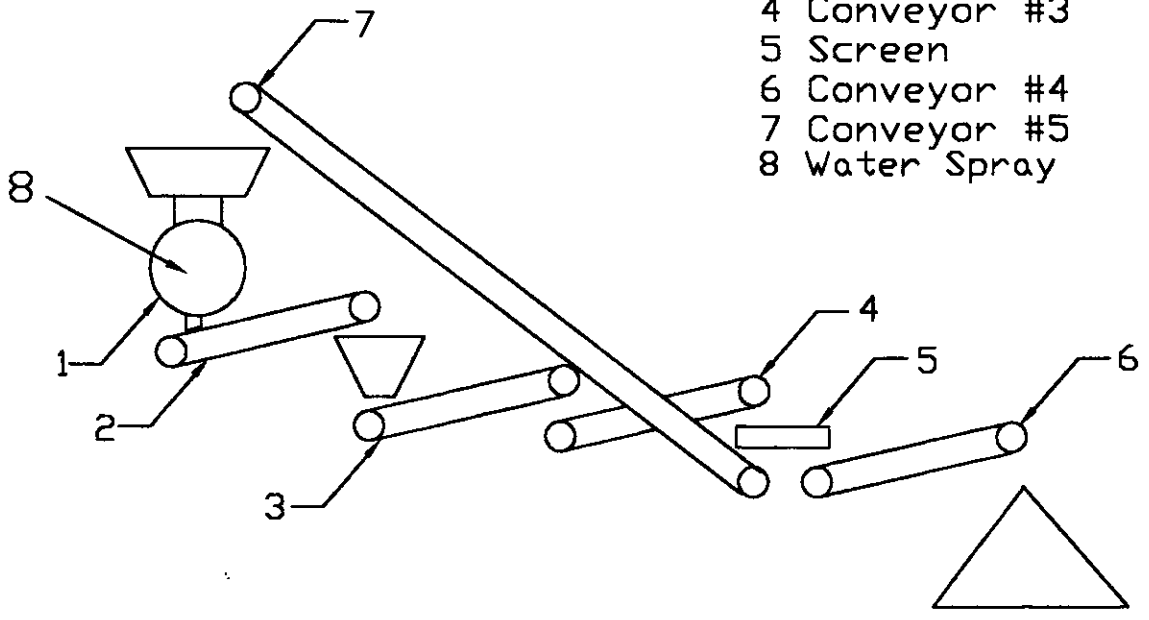
Limit Opacity                      20%  
Maximum Observed Opacity      0%  
Maximum six minute average      0%

**Crusher Contractors  
Jupiter, FL**

**5.0 FLOW DIAGRAM**

**Brooks & Associates  
5068 NW 85<sup>th</sup> Rd.  
Coral Springs, FL 33067**

- 1 Crusher
- 2 Crusher Conveyor #1
- 3 Conveyor #2
- 4 Conveyor #3
- 5 Screen
- 6 Conveyor #4
- 7 Conveyor #5
- 8 Water Spray



BROOKS & ASSOCIATES  
FLOW DIAGRAM FOR  
CRUSHER CONTRACTORS



**Crusher Contractors  
Jupiter, FL**

**6.0 PHOTOGRAPHS**

**Brooks & Associates  
5068 NW 85<sup>th</sup> Rd.  
Coral Springs, FL 33067**

