AJAX PAVING INDUSTRIES, INC.

Portable BCE Asphalt Producing Facility

FDEP "Statewide" Operation Permit Application Construction Permit No. 777060-003-AC

JULY-2000 29th



Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name:

	AJAX PAVING IND	USTRIES, INC	C.		
2.	Site Name:				
	AJAX PAVING INDUS	TRIES, INC	PORTABLE PLANT		
3.	Facility Identification Number:	777060	[] Unknown		
4.	Facility Location: (Present Location - Relocatable Plant) Street Address or Other Locator: 1740 U.S. 27 South				
	City: Moore Haven	County: Glades	Zip Code: 33471		
5.	Relocatable Facility?	6. Exist	ing Permitted Facility?		
	[X] Yes [] No	[X] Y	es [] No		
A	oplication Contact				
1.	Name and Title of Application	Contact:			
	Mr. Bernard A. Ball, Jr.,	Director of Envi	onmental Services		
2.	Application Contact Mailing Ad	dress:			
2.	Application Contact Mailing Ad- Organization/Firm: Central F l		aboratories, Inc.		
2.		lorida Testing La	aboratories, Inc.		
2.	Organization/Firm: Central Fl	lorida Testing La			
	Organization/Firm: Central Fl Street Address: 12625 - 40th	lorida Testing La Street North State: Florid			
	Organization/Firm: Central Fl Street Address: 12625 - 40th City: Clearwater	lorida Testing La Street North State: Florid Numbers:			
3.	Organization/Firm: Central Fl Street Address: 12625 - 40th City: Clearwater Application Contact Telephone	Street North State: Florid Numbers: Fax:	a Zip Code: 33762		
3.	Organization/Firm: Central Fl Street Address: 12625 - 40th City: Clearwater Application Contact Telephone I Telephone: (727) 572-9797	Street North State: Florid Numbers: Fax:	a Zip Code: 33762		
3. <u>A</u> I	Organization/Firm: Central Fl Street Address: 12625 - 40th City: Clearwater Application Contact Telephone I Telephone: (727) 572-9797	lorida Testing La Street North State: Florid Numbers: Fax: on (DEP Use)	a Zip Code: 33762		

Purpose of Application

Air Operation Permit Application

Th	is	Application for Air Permit is submitted to obtain: (Check one)				
[]	Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.				
[X]	Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.				
		Current construction permit number: 7770060-003-AC				
[]	Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.				
		Current construction permit number:				
		Operation permit number to be revised:				
[]	Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.				
		Current operation/construction permit number(s):				
[]	Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.				
		Operation permit number to be revised:				
		Reason for revision:				
Ai	r (Construction Permit Application				
Th	is	Application for Air Permit is submitted to obtain: (Check one)				
[]	Air construction permit to construct or modify one or more emissions units.				
[]	Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.				
[]	Air construction permit for one or more existing, but unpermitted, emissions units.				

Owner/Authorized Representative

1. Name and Title of Owner/Authorized Representative:

Mr. Michael Horan, President

2. Owner/Authorized Representative Mailing Address:

Organization/Firm: Ajax Paving Industries, Inc.

Street Address: 510 Gene Green Road

City: Nokomis

State: Florida

Zip Code: 34275-3624

3. Owner/Authorized Representative Telephone Numbers:

Telephone: (941) 486-3600

Fax: (941) 486-3500

4. Owner/Authorized Representative Statement:

I, the undersigned, am the owner or authorized representative* of the facility addressed in this 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. 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 any permitted emissions unit.

Signature

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: Mr. George C. Sinn, Jr., P.E.

Registration Number: 16911

2. Professional Engineer Mailing Address:

Organization/Firm: Central Florida Testing Laboratories, Inc.

Street Address: 12625 - 40th Street North

City: Clearwater

State: Florida

Zip Code: 33762

3. Professional Engineer Telephone Numbers:

Telephone: (727) 572-9797

Fax: (727) 299-0023

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein*, that:

- (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
- (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.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [], 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.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one of more newly constructed or modified emissions units (check here [X], 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.

Signature

Date

(seal)

- Attach any exception to certification statement.
- With the exception of production and efficiency guarantees by the manufacturer.

Scope of Application

Emissions		Permit	Processing
Unit ID	Description of Emissions Unit	Type	Fee
001	250 TPH Portable Bituma Construction & Engineering Company (BCE) Drum Mix Asphalt Plant, fired on No.5 "on-spec" fuel oil with a 0.5% sulfur limit, with No.2 virgin diesel fuel being an alternate fuel with a 0.5%	AO2A	\$1,500.00
	sulfur limit, controlled by a primary dry cyclone separator followed by a BCE Model 400 baghouse system.		
002	Gentec/HyWay Model HGYO 200, oil heating system rated at 2.0 MMBtu/hr, fired on No.2 virgin diesel fuel with a maximum sulfur limit of 0.5% by weight. utilized to heat fuel oil supplied to asphalt plant burner and to heat 20,000 gallon liquid asphalt tanks.	AO2B	Combined w/ asphalt plant
003	BCE – Reclaimed Asphalt Vibrating Screener - used to screen reclaimed crushed asphalt to a desired size before entering mixing area of the rotary drum of asphalt plant.	AO2B	Combined w/ asphalt plant
004	Fugitive emissions from paved and unpaved areas at this facility.	AO2C	Combined w/ asphalt plant
005	Fugitive emissions from stockpiles, conveyor drop points and dumping of aggregates into hoppers.	AO2C	Combined w/ asphalt plant
	-	-	

Application Processing Fee

Check one: [X] Attached - Amount: \$ 1,500.00 [] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

This project consists of an existing 250 TPH - Portable Bituma Equipment & Engineering Company, Inc. (BCE) Drum Mix Asphalt Plant now located at 1740 U.S. 27 South, Moore Haven, Glades County, Florida and permitted under FDEP Construction Permit No. 7770060-003-AC. This application is for a statewide FDEP Operation Permit for the portable BCE Drum Mix Asphalt Plant for relocation to the counties of Charlotte, Collier, Glades, Hendry, and Lee. Other locations will be requested for later as they are known.

This asphalt producing facility is equipped to burn No. 5 "on-spec" fuel oil in it's plant's burner system with virgin No.2 fuel oil being an alternate fuel, both fuels having a maximum sulfur limit of 0.5% by weight. The emissions from the mixing/drying drum of this plant are controlled by a BCE primary dry cyclone separator followed by a BCE Model 400 baghouse control system rated at 66,000 ACFM and 99.9% efficient by the manufacturer @ 3-4 "Hg of Pressure Drop.

Liquid Asphalt Tanks and the fuel oil used by the plants burner system at this facility are heated as needed by a Gentec/HyWay, Inc. Model 200, oil heating system rated at 2.0 MBtu/hr fired on No.2 virgin diesel fuel with a maximum sulfur content of 0.5% by weight.

This asphalt producing plant also employs a BCE Reclaimed Asphalt Vibrating Screening System used to screen and size reclaimed asphalt material to a desired size before it enters the mixing zone of the rotary drum of this asphalt plant.

This facility as in the past will comply with all FDEP Rules and Regulations for relocatable facilities of this type.

- 2. Projected or Actual Date of Commencement of Construction: Existing Facility
- 3. Projected Date of Completion of Construction: Existing Facility

Application Comment:

This project consists of an existing 250 TPH - Portable Bituma Equipment & Engineering Company, Inc. (BCE) Drum Mix Asphalt Plant now located at 1740 U.S. 27 South, Moore Haven, Glades County, Florida and permitted under FDEP Construction Permit No. 7770060-003-AC. This application is for a statewide FDEP Operation Permit for the portable BCE Drum Mix Asphalt Plant for relocation to the counties of Charlotte, Collier, Glades, Hendry, and Lee. Other locations will be requested for later as they are known.

This asphalt producing facility is equipped to burn No. 5 "on-spec" fuel oil in it's plant's burner system with virgin No.2 fuel oil being an alternate fuel, both fuels having a maximum sulfur limit of 0.5% by weight. The emissions from the mixing/drying drum of this plant are controlled by a BCE primary dry cyclone separator followed by a BCE Model 400 baghouse control system rated at 66,000 ACFM and 99.9% efficient by the manufacturer @ 3-4 "Hg of Pressure Drop.

Liquid Asphalt Tanks and the fuel oil used by the plants burner system at this facility are heated as needed by a Gentec/HyWay, Inc. Model 200, oil heating system rated at 2.0 MBtu/hr fired on No.2 virgin diesel fuel with a maximum sulfur content of 0.5% by weight.

This asphalt producing plant also employs a BCE Reclaimed Asphalt Vibrating Screening System used to screen and size reclaimed asphalt material to a desired size before it enters the mixing zone of the rotary drum of this asphalt plant.

This facility as in the past will comply with all FDEP Rules and Regulations for relocatable facilities of this type.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1.	Facility UTM Coor	ordinates: (Present Location other coordinates not known yet)				
	Zone: 17	East (km)	: 488.9 E Nort	h (km): 2967.9 N		
2.	. Facility Latitude/Longitude:					
	Latitude (DD/MM/	SS): 26 ⁰ 50'03" N	Longitude (DD/MM/SS): 81°06'42" W			
3.	Governmental	4. Facility Status	5. Facility Major	6. Facility SIC(s):		
	Facility Code:	Code:	Group SIC Code:			
	0	ACTIVE	2951	2951		

7. Facility Comment (limit to 500 characters):

This project consists of an existing 250 TPH - Portable Bituma Equipment & Engineering Company, Inc. (BCE) Drum Mix Asphalt Plant now located at 1740 U.S. 27 South, Moore Haven, Glades County, Florida and permitted under FDEP Construction Permit No. 7770060-003-AC. This application is for a statewide FDEP Operation Permit for the portable BCE Drum Mix Asphalt Plant for relocation to the counties of Charlotte, Collier, Glades, Hendry, and Lee. Other locations will be requested for later as they are known.

This asphalt producing facility is equipped to burn No. 5 "on-spec" fuel oil in it's plant's burner system with virgin No.2 fuel oil being an alternate fuel, both fuels having a maximum sulfur limit of 0.5% by weight. The emissions from the mixing/drying drum of this plant are controlled by a BCE primary dry cyclone separator followed by a BCE Model 400 baghouse control system rated at 66,000 ACFM and 99.9% efficient by the manufacturer @ 3-4 "Hg of Pressure Drop.

Liquid Asphalt Tanks and the fuel oil used by the plants burner system at this facility are heated as needed by a Gentec/HyWay, Inc. Model 200, oil heating system rated at 2.0 MBtu/hr fired on No.2 virgin diesel fuel with a maximum sulfur content of 0.5% by weight.

This asphalt producing plant also employs a BCE Reclaimed Asphalt Vibrating Screening System used to screen and size reclaimed asphalt material to a desired size before it enters the mixing zone of the rotary drum of this asphalt plant.

This facility as in the past will comply with all FDEP Rules and Regulations for relocatable facilities of this type.

Facility Contact

1. Name and Title of Facility Contact:

Mr. Robert K. Ray, Asphalt Plant Operations Manager

2. Facility Contact Mailing Address:

Organization/Firm: Ajax Paving Industries, Inc.

Street Address: 510 Gene Green Road

City: Nokomis State: Florida Zip Code: 34272

3. Facility Contact Telephone Numbers:

Telephone: (941) 486-3600 Fax: (941) 486-3500

Facility Regulatory Classifications

Check all that apply:

1. [] Small Business	Stationary Source?	[X] Unknown
2. [X] Synthetic Non-	Title V Source? (Emissions	s less than 100 ton/yr)
3. [X] Synthetic Mino	r Source of Pollutants Othe	r than Haps?
4. [X] Synthetic Mino	r Source of HAPs? (Total)	HAP's less than 25 ton/yr)
5. [X] One or More E	missions Units Subject to N	ISPS?
6. [] One or More E	mission Units Subject to NI	ESHAP Recordkeeping or Reporting?
7. Facility Regulatory (Classifications Comment (li	mit to 200 characters):
	'synthetic minor source" :	The conditional exemption in 62-210.300 and is exempt from Title V permitting in
Emissions from facility less than 25 ton/year.	less than 100 ton/year, re	gulated total HAPs emissions (in fuel oil)

Rule Applicability Analysis

Rule Applicability Alialysis					
This facility is subject to NSPS and 40 CFR 60, subpart 000. This facility does not meet the criteria of Title V "conditional exemption" in 62-210.300 (3) but is considered a					
"synthetic minor source"	and is exempt from	Title V permitti	ng in accordance with		
EPA's definition.					
			·		
	•				

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant	2. Pollutant	3. Requested Emissions Cap lb/hour tons/year		4. Basis for	5. Pollutant
Emitted	Classif.			Emissions Cap	Comment
PM	В	0.04 gr/dscf			
PM10	В		·	RULE	
SO2	В			RULE	
NOx	В		•	RULE	
СО	В			RULE	
тос	В			RULE	
		,			

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1.	Area Map Showing Facility Location:
	[X] Attached, Document ID: I [] Not Applicable [] Waiver Requested
	Present Location, other locations not determined as of yet
2.	Facility Plot Plan:
	[X] Attached, Document ID: II[] Not Applicable [] Waiver Requested
	Present Location, other locations may very with space available.
3.	Process Flow Diagram(s):
	[X] Attached, Document ID:III[] Not Applicable [] Waiver Requested
4.	Precautions to Prevent Emissions of Unconfined Particulate Matter:
	[] Attached, Document ID: [] Not Applicable [] Waiver Requested
5.	Supplemental Information for Construction Permit Application:
	[] Attached, Document ID: [] Not Applicable
6.	Supplemental Requirements Comment:

EMISSIONS ID. NO. 001 250 TPH BCE - PORTABLE DRUM MIX ASPHALT PLANT

III. EMISSIONS UNIT INFORMATION - Asphalt Plant

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

Smissions one Description and Status					
1. Type of Emissions Unit Addressed in This Section: (Check one)					
[X] 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).					
process or production unit	mation Section addresses, as a sits and activities which has at leass so produce fugitive emissions.	, , ,			
	rmation Section addresses, as a si ts and activities which produce fu	ngle emissions unit, one or more gitive emissions only.			
250 tph Portable Bituma Cor Plant, fired on "on-spec" No alternate fuel, both fuels havin	o.5 reclaimed fuel oil with No	pany, Inc. Drum Mix Asphalt 2.2 virgin diesel fuel being an attent by weight, controlled by a			
3. Emissions Unit Identification		No ID			
ID: 001	ni ivanioci.	[] ID Unknown			
2. Emissions Unit Status	3. Initial Startup Date:	4. Emissions Unit Major			
Code:		Group SIC Code:			
ACTIVE	ACTIVE	2951			
5. Emissions Unit Comment: (Limit to 500 Characters):	-			
5. Emissions Unit Comment: (Limit to 500 Characters): The emissions generated in the drying drum of this asphalt plant producing facility will be controlled by the BCE – Primary Collector Separator. This collector recycles and returns 50% of the dust emissions generated in the drum back into the aggregate / recycle mixing zone. The primary collector will be followed by an existing BCE, Model 400 baghouse control system rated at 66,000 ACFM and 99.9 % by the manufacturer.					

Emissions Unit Information Section 1 of 5

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

A Bituma Engineering & Equipment Company (BCE) – Primary Collector Separator followed by a BCE, Model 400 baghouse system rated at 66,000 ACFM and 99.9 % by the manufacturer.

2. Control Device or Method Code(s): 101

Emissions Unit Details

1. Package Unit: Drum Mix Asphalt Plant controlled with primary collector and baghouse Manufacturer: Bituma Engineering & Equipment Company (BCE)

Model Number: Primary Collector / Baghouse Model 400

2. Generator Nameplate Rating:

MW

3. Incinerator Information:

Dwell Temperature:

٥F

Dwell Time:

seconds

Incinerator Afterburner Temperature:

٥F

Emissions Unit Operating Capacity and Schedule

- 1. Maximum Heat Input Rate: 110.0 mmBtu/hr (plant's burner system)
- 2. Maximum Incineration Rate:

lb/hr

tons/day

- 3. Maximum Process or Throughput Rate: Maximum of 250 tph of hot mix asphalt concrete and a maximum of 750 gallons per hour of "on-spec" No.5 reclaimed fuel oil burned by the plant's burner system.
- 4. Maximum Production Rate: 250 tph of hot mix asphaltic concrete.
- 5. Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

not to exceeed: 4000 hrs/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

Annual Production at this facility will consist of the following:

Total Tons of asphalt to be produced = 1 million ton

Total Fuel Consumption per year, by plant's burner system = maximum of 3.0 million gallons

Total Production Hours = 4000 maximum of operation by plant's burner system.

Facility is a "synthetic minor" source. Emissions are less than 100 tpy, while HAP's emissions are less than 25 tpy.

Emissions Unit Information Section $\underline{1}$ of $\underline{5}$

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

] 1.	Identification of Point on Plot Plan or		2. Emission Point Type Code:			
	Flow Diagram? 001 Exhau	st Stack	1			
3.	Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to					
	100 characters per point): N	OT APPLICAL	BLE			
3.	ID Numbers or Descriptions	s of Emission U	nits with this Emi	ssion Point in Common:		
		NOT APP	LICABLE	÷		
4.	Discharge Type Code:	6. Stack Heig	ht:	7. Exit Diameter:		
	\mathbf{V}	~30 feet		~ 10 sq. feet		
8.	Exit Temperature:	9. Actual Vol	umetric Flow	10. Water Vapor:		
	~275°F	Rate:		~30 %		
		~ 66,00	00 acfm			
11.	. Maximum Dry Standard Flo	w Rate:	12. Nonstack Er	nission Point Height:		
	~35,000 dscfm			fe	et	
13.	Emission Point UTM Coord	linates: (present	location Glades)		
Zone: 17 East (km): 488.9 E North (km): 2967.9 N				n (km): 2967.9 N		
14.	14. Emission Point Comment (limit to 200 characters):					

Emissions Unit Information Section 1 of 5

C. SEGMENT (PROCESS/FUEL) INFORMATION

ate: Segment 1	of1(E	missions for No.2 & 5 the Same)				
1. Segment Description (Process/Fuel Type) (limit to 500 characters):						
Bituma Engineering & Equipment Company, Inc. (BCE) – Portable Drum Mix Asphalt Plant, Burner System rated at 110.0 MMBtu/hr fired on "on-spec" No. 5 reclaimed fuel oil or No.2 virgin diesel fuel as a backup, with maximum sulfur limits of 0.5 % by weight and maximum consumption of 750 gallons per hour.						
e (SCC):	3. SCC Units	: 000 gallons burned				
1	Annual Rate:	6. Estimated Annual Activity Factor: NA				
		8. Million Btu per SCC Unit: 0.138 MMBtu				
to 200 characters):					
ion factors for l		-				
ate: Segment	of					
cess/Fuel Type)	(limit to 500 ch	aracters):				
Source Classification Code (SCC): 3. SCC Units:						
5. Maximum A	Annual Rate:	6. Estimated Annual Activity Factor:				
5. Maximum 2		-				
	ipment Comparat 110.0 MMBs as a backup, with of 750 gallons paragraph (SCC): 5. Maximum 3.0 million 7. Maximum 4 0.01 % to 200 characters ained in AP-42, ion factors for lar system. ate: Segment	ipment Company, Inc. (BCE) at 110.0 MMBtu/hr fired on " as a backup, with maximum so of 750 gallons per hour. le (SCC): 3. SCC Units 1,4 5. Maximum Annual Rate: 3.0 million gal/yr max. 7. Maximum % Ash:				

1. Pollutant Emitted: PM	2	2. Pollutant Regulatory Code: EL		
3. Primary Control Device Code: 101	4. Secondary Control Device Code:		Total Percent Efficiency of Control: 99.9%	
6. Potential Emissions: 10.00 lb/hour 20.00 to	7.	Synthetically Limited? [X]YES		
8. Emission Factor: 0.040 lb/t	ton	9.	Emissions Method Code:	
Reference: AP-42 (Ta	able 11.1-5)		3	
10. Calculation of Emissions (l	limit to 600 charae	eters):		
PM = (0.040 lb/ton) (250 ton/temperature) PM _{yearly} = (10.00 lb/hr)(4000 lb/h	ons Comment (limed in AP-42, tablectors for both ty	on = 20.00 ton/yr it to 200 characters e 11.1-8 Drum Mi	ix Asphalt Plants (1/95)	
Allowable Emissions Allowal	ble Emissions	of5		
1. Basis for Allowable Emissi RULE – Emissions subject to		2. Future Effect: Emissions: N	ive Date of Allowable A	
2. Requested Allowable Emis	sions and Units:	4. Equivalent A	llowable Emissions:	
0.04 grains/dscf		10.00 lb/hour	20.00 tons/year	
5. Method of Compliance (lin	nit to 60 character	s): Compliance w	ill be achieved through	
initial and annual emissions o	compliance testin	g.		
6. Allowable Emissions Com	ment (Desc. Of O	perating Method) (limit to 200 characters):	
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Emissions Unit Information Section $\underline{1}$ of $\underline{5}$

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

1. Pollutant Emitted: SO2	. Pollutant Reg	ulatory Code: EL		
3. Primary Control Device 4. Secondary Co	ontrol Device	5. Total Percent Efficiency		
Code: Code:	٠	of Control:		
6. Potential Emissions:		7. Synthetically Limited?		
14.00 lb/hour 28.00 tons/year		[X]YES		
8. Emission Factor: 0.056 lb/ton		11. Emissions Method Code:		
Reference: AP-42 (Table 11.1-8)		3		
10. Calculation of Emissions (limit to 600 characters): SO2 = (0.056 lb/ton) (250 ton/hr) = 14.00 lb/hr SO2 _{yearly} = (14.00 lb/hr)(4000 hr/yr) / 2000 lb/ton = 28.00 ton/yr 12. Pollutant Potential Emissions Comment (limit to 200 characters): The emission factors contained in AP-42, table 11.1-8 Drum Mix Asphalt Plants (1/95) indicate the same emission factors for both types of fuel oils that will be used at this facility by the plant's burner system.				
Allowable Emissions Allowable Emissions	2 of5			
3. Basis for Allowable Emissions Code:	2. Future Eff	Sective Date of Allowable		
RULE – Emissions subject to VE standards	Emissions	:: NA		
4. Requested Allowable Emissions and Units:	4. Equivalen	t Allowable Emissions:		
0.50 % sulfur by weight	14.00 lb/h	our 28.00 tons/year		
5. Method of Compliance (limit to 60 characters): Compliance will be achieved through				
fuel oil analyses supplies with every load delivered to this plant and kept on record.				
6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):				

су				
•				
,				
de:				
NOx = $(0.075 \text{ lb/ton}) (250 \text{ ton/hr}) = 18.75 \text{ lb/hr}$ NOx _{yearly} = $(18.75 \text{ lb/hr}) (4000 \text{ hr/yr}) / 2000 \text{ lb/ton} = 37.50 \text{ ton/yr}$				
· •				
racinty by the plant's burner system.				

5. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable			
RULE	Emissions: NA			
6. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
Emissions subject to VE standards	18.75 lb/hour 37.50 tons/year			
5. Method of Compliance (limit to 60 characters): Compliance will be achieved through fuel oil analyses supplies with every load delivered to this plant and kept on record.				
6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):				

	2. Pollutant Regulatory Code: EL			
3. Primary Control Device 4. Secondary C Code: Code:	Control Device	5. Total Percent Efficiency of Control:		
6. Potential Emissions: 9.00 lb/hour 18.00 tons/year	7. Synthetically Limited? [X] YES			
8. Emission Factor: 0.036 lb/ton		15. Emissions Method Code:		
Reference: AP-42 (Table 11.1-8)		3		
10. Calculation of Emissions (limit to 600 chara	acters):			
CO = (0.036 lb/ton) (250 ton/hr) = 9.00 lb/hr CO _{yearly} = (9.00 lb/hr)(4000 hr/yr) / 2000 lb/ton = 18.00 ton/yr 16. Pollutant Potential Emissions Comment (limit to 200 characters): The emission factors contained in AP-42, table 11.1-8 Drum Mix Asphalt Plants (1/95) indicate the same emission factors for both types of fuel oils that will be used at this				
facility by the plant's burner system. Allowable Emissions Allowable Emissions 4_ of 5				
7. Basis for Allowable Emissions Code:		ective Date of Allowable		
RULE	Emissions			
8. Requested Allowable Emissions and Units:	4. Equivalent	t Allowable Emissions:		
-				
Emissions subject to VE standards	9.00 lb/ho	ur 18.00 tons/year		
-	rs): Compliance	will be achieved through		

1. Pollutant Emitted: TOC	2. Pollutant Regulatory Code: EL		
3. Primary Control Device 4. Secondary	• 1		
Code: Code:	of Control: 0%		
6. Potential Emissions:	7. Synthetically Limited?		
17.25 lb/hour 34.50 tons/year	[X]YES		
8. Emission Factor: 0.069 lb/ton	17. Emissions Method Code:		
Reference: AP-42 (Table 11.1-5)	3		
	·		
10. Calculation of Emissions (limit to 600 char	racters):		
TOC = (0.069 lb/ton) (250 ton/hr) = 17.25 lb			
$TOC_{yearly} = (17.25 lb/hr)(4000 hr/yr) / 2000 l$	b/ton = 34.50 ton/yr		
	·		
	2200		
18. Pollutant Potential Emissions Comment (li	*		
The emission factors contained in AP-42, ta			
indicate the same emission factors for both types of fuel oils that will be used at this			
facility by the plant's burner system.			
Allemanda Francisco Allemanda Francisco			
Allowable Emissions Allowable Emissions			
9. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable		
RULE	Emissions: NA		
10. Requested Allowable Emissions and Units	: 4. Equivalent Allowable Emissions:		
Emissions subject to VE standards	17.25 lb/hour 34.50 tons/year		
5. Method of Compliance (limit to 60 characters): Compliance will be achieved through			
fuel oil analyses supplies with every load delivered to this plant and kept on record.			
6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):			

E. VISIBLE EMISSIONS INFORMATION (Only Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation of 1. Visible Emissions Subtype: 2. Basis for Allowable Opacity: **VE20** [X] Rule [] Other 3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 20 % Maximum Period of Excess Opacity Allowed: NONE min/hour 4. Method of Compliance: EPA METHOD 9 5. Visible Emissions Comment (limit to 200 characters): Regulated under 62-296.320 F. CONTINUOUS MONITOR INFORMATION (Only Emissions Units Subject to Continuous Monitoring) Continuous Monitoring System: Continuous Monitor of _____ 1. Parameter Code: 2. Pollutant(s): 3. CMS Requirement: [] Rule [] Other 4. Monitor Information: Manufacturer: Model Number: Serial Number: 6. Performance Specification Test Date: 5. Installation Date: 7. Continuous Monitor Comment (limit to 200 characters): **NOT APPLICABLE**

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1.	Process Flow Diagram
	[X] Attached, Document ID:III [] Not Applicable [] Waiver Requested
	· · · · · · · · · · · · · · · · · · ·
2.	Fuel Analysis or Specification
	[X] Attached, Document ID:IV [] Not Applicable [] Waiver Requested
	Can be found in supplemental information section of application
3.	Detailed Description of Control Equipment
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
	·
5.	Compliance Test Report
	[X] Attached, Document ID:
	[X] Previously submitted, Date:
	[] Not Applicable
6.	Procedures for Startup and Shutdown
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
8.	Supplemental Information for Construction Permit Application
	[] Attached, Document ID: [X] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [] Not Applicable
10.	Supplemental Requirements Comment:

Emissions Unit Information Section $\underline{1}$ of $\underline{5}$

EMISSIONS ID. NO. 002 EMISSIONS GENTEC / HY-WAY OIL HEATING SYSTEM

Emissions Unit Information Section 2 of 5

III. EMISSIONS UNIT INFORMATION - Gentec Hy-Way Heater

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Add	dressed in This Section: (Check	one)		
process or production unit	mation Section addresses, as a si , or activity, which produces one inable emission point (stack or ve	or more air pollutants and		
process or production unit	mation Section addresses, as a si is and activities which has at leas so produce fugitive emissions.	, , ,		
	mation Section addresses, as a si s and activities which produce fu	ngle emissions unit, one or more agitive emissions only.		
l -	nit Addressed in This Section (lin	,		
	GYO-200 Oil Heating System,			
	content of 0.5% by weight, rate			
	fuel oil supplied to the plant's l	•		
3. Emissions Unit Identification	n Number:	[] No ID		
ID: 002		[] ID Unknown		
7. Emissions Unit Status	8. Initial Startup Date:	9. Emissions Unit Major		
Code:		Group SIC Code:		
ACTIVE	ACTIVE - ASAP	2951		
10. Emissions Unit Comment: (no changes.		
This is an existing emissions unit and will remain as is with no changes.				
·				

Emissions Unit Information Section $\underline{2}$ of $\underline{5}$

Emissions Unit Control Equipment

5. Control Equipment/Method Description (limit to 200 characters per device or method):			
NONE – limiting sulfur limits in fuel oil burned by this unit			
2. Control Device or Method Code(s):			
2. Control Device of Method Code(s).			
Emissions Unit Details			

1.	1. Package Unit: Hot Oil Heating System			
	Manufacturer: Genctec/ Hy-Way	Model Number:	HGYO-200	
2.	Generator Nameplate Rating:	MW		
3.	Incinerator Information:			
Dwell Temperature:			°F	
Dwell Time:			seconds	
Incinerator Afterburner Temperature:			°F	

Emissions Unit Operating Capacity and Schedule

1. Maximum He	at Input Rate: 2.00 mr	nBtu/hr (oil heater's b	urner system)		
2. Maximum Inc	. Maximum Incineration Rate: lb/hr tons/day				
3. Maximum Pro	cess or Throughput R	tate: Maximum of 10.0	gal/hr.		
4. Maximum Pro	duction Rate: 10.0 ga	l/hr.			
7. Requested Ma	ximum Operating Scl	nedule:			
24 hours/day 7 days/week					
52 weeks/year	not to exceeed: 8760) hrs/year			
8. Operating Capacity/Schedule Comment (limit to 200 characters):					
This unit will operate continuously but will cycle at high and low fires. The maximum					
fuel consumption for this unit is 10.0 gallons hour.					

Emissions Unit Information Section 2 of 5

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or		6. Emission Point Type Code:			
Flow Diagram? 002 Oil Heater	r	1			
3. Descriptions of Emission Po	oints Comprising	this Emissions U	Jnit for VE Tracking (limit to		
100 characters per point): N	OT APPLICAI	BLE			
7. ID Numbers or Description	s of Emission Ur	its with this Emi	ssion Point in Common:		
	NOT APP	LICABLE			
8. Discharge Type Code:	6. Stack Heigh	ht:	7. Exit Diameter:		
V	~ 10 feet		~ 0.75 feet		
8. Exit Temperature:	9. Actual Vol	umetric Flow	10. Water Vapor:		
~ 200 °F	Rate:		~5 %		
Unknown					
11. Maximum Dry Standard Flow Rate: 12. Nonstack Emission Point Height:					
dscfm feet					
13. Emission Point UTM Coordinates: (@ present location, other locations not as yet					
determined)					
Zone: 17 East (km): 488.9 E North (km): 2967.9 N					
14. Emission Point Comment (limit to 200 characters):					

C. SEGMENT (PROCESS/FUEL) INFORMATION – Gencor Hy-Way Oil Heater <u>Segment Description and Rate:</u> Segment ___1_ of __1_

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Gentec Hy-Way Model HYGO-200 Oil Heating System fired on No.2 Virgin diesel fuel with a maximum sulfur content of 0.5% by weight, used to heat fuel oil going to plants burner system and to heat liquid asphalt before entering mixing drum of the plant.				
			1	
19. Source Classification Code (SCC): 20. SCC Units: 1,000 gallons burned				
21. Maximum Hourly Rate: 10.00 gal/hr max.		l/yr max.	6. Estimated Annual Activity Factor: NA	
23. Maximum % Sulfur: 0.50 % by weight	24. Maximum 9 < 0.01 %	% Ash: by weight	25. Million Btu per SCC Unit: 0.138 MMBtu	
10. Segment Comment (limit t	to 200 characters) :		
Unit will be solely fired on lependent on heat needed.	No.2 virgin dies	el fuel, this un	it cycles from high to low fire	
dependent on neat needed.				
Segment Description and Ra	te: Segment	of		
1. Segment Description (Proc	cess/Fuel Type)	(limit to 500 ch	aracters):	
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 (limit to 200 characters):				
<u> </u>				

1. Pollutant Emitted: PM	2. Pollutant Reg	ulatory Code: EL
3. Primary Control Device 4. Secondary Code: NA Code:	Control Device	5. Total Percent Efficiency of Control: 0.0%
6. Potential Emissions: 0.02 lb/hour 0.08 tons/year		7. Synthetically Limited? [X] YES
8. Emission Factor: 2.0 lb/1,000 gal		26. Emissions Method Code:
Reference: AP-42 (Table 1.3-7)		3
10. Calculation of Emissions (limit to 600 cha	racters):	
$PM = (2.0 \text{ lb/1,000 gal}) (10.0 \text{ gal/hr}) = 0.02 \text{ lb/hr}$ $PM_{\text{yearly}} = (0.02 \text{ lb/hr})(8,760 \text{ hr/yr}) / 2000 \text{ lb/ton} = 0.08 \text{ ton/yr}$		
Allowable Emissions Allowable Emissions	1 of 5	
11. Basis for Allowable Emissions Code:		fective Date of Allowable
RULE – Emissions subject to Opacity Stds.	1	
12. Requested Allowable Emissions and Units	: 4. Equivalen	t Allowable Emissions:
20 % Opacity	0.02 lb/ho	our 0.08 tons/year
5. Method of Compliance (limit to 60 characters): Compliance will be achieved through proper maintenance of oil heating system, initial and annual visible emissions testing and fuel analyses supplied by oil supplier.		
6. Allowable Emissions Comment (Desc. Of	Operating Metho	d) (limit to 200 characters):

1. Pollutant Emitted: SO2		2. Pollutant Reg	ulatory Code: EL
3. Primary Control Device 4.	Secondary	Control Device	5. Total Percent Efficiency
Code: NA	Code:		of Control: 0 %
6. Potential Emissions:			7. Synthetically Limited?
1.42 lb/hour 6.22 tons/yea	ar		[X]YES
8. Emission Factor: 142.0 lb/1,00	00 gal.	·	28. Emissions Method Code:
Reference: AP-42 (Tabl	e 1.3-2)		3
11010101101112 12 (2 1111	-,		
10 Calculation of Emissions (limit	t to 600 abo	· · · · · · · · · · · · · · · · · · ·	
10. Calculation of Emissions (limit	it to boo cha	racters):	·
ESO2 = (142.0 lb/1,000 gal) (10.0 gal)	0 gal/hr) = 1	1 42 lb/hr	
$ESO2_{yearly} = (1.42 \text{ lb/hr})(8,760 \text{ hr})$			/vr
Searly (1012 18, 21)(6, 00 11	. 5 2) . = 0 0 0 .		<i>J</i> -
29. Pollutant Potential Emissions	Comment (1	imit to 200 charac	eters):
	`		
Allowable Emissions Allowable	Emissions _	of5	_
13. Basis for Allowable Emissions	s Code:	2. Future Eff	fective Date of Allowable
RULE – Emissions subject to O	pacity Stds.	Emissions	:: NA
14. Requested Allowable Emission			t Allowable Emissions:
0.50 % sulfur by weight		1.42 lb/ho	ur 6.22 tons/year
5. Method of Compliance (limit t	to 60 charac	ters): Compliance	e will be achieved through
fuel oil analyses supplies with ev	ery load de	livered to this pl	ant and kept on record,
proper maintenance of burner s	ystem.		
6. Allowable Emissions Commer	nt (Desc. Of	Operating Metho	d) (limit to 200 characters):
		, 0	

1. Pollutant Emitted: NOx	2. Pollutant Reg	ulatory Code: EL
	Control Device	5. Total Percent Efficiency
Code: Code:		of Control:
6. Potential Emissions:		7. Synthetically Limited?
0.20 lb/hour 0.88 tons/year		[X]YES
8. Emission Factor: 20.0 lb/1,000 gal		30. Emissions Method Code:
Reference: AP-42 (Table 1.3-2)		3
10. Calculation of Envisoions (limit to 600 also	wo ot analy	
10. Calculation of Emissions (limit to 600 cha	racters):	
NO (20 0 lb /1 000 l) (10 0 l/b) = 0/3	0 11 /L	
NOx = $(20.0 \text{ lb/1},000 \text{ gal}) (10.0 \text{ gal/hr}) = 0.2$		
$NOx_{yearly} = (0.20 \text{ lb/hr})(8,760 \text{ hr/yr}) / 2000 \text{ lb}$	o/ton = 0.88 ton/y	r
		•
31. Pollutant Potential Emissions Comment (l	imit to 200 charac	ters):
Committee Committee Committee (
	•	
		<u> </u>
Allowable Emissions Allowable Emissions	3 of5	_
15. Basis for Allowable Emissions Code:	2. Future Eff	ective Date of Allowable
RULE	Emissions	: NA
16. Requested Allowable Emissions and Units	s: 4. Equivalen	t Allowable Emissions:
Emissions subject to Opacity stds.	0.20 lb/ho	ur 0.88 tons/year
5. Method of Compliance (limit to 60 charac	ters): Compliance	will be achieved through
fuel oil analyses supplies with every load de	livered to this pla	ant and kept on record and
proper maintenance of this unit.	•	•
		1) (1)
6. Allowable Emissions Comment (Desc. Of	Operating Method	d) (limit to 200 characters):

1. Pollutant Emitted: CO	2. Pollutant Regulatory Code: EL	
3. Primary Control Device 4. Secondary C Code: NA Code:	ontrol Device 5. Total Percent Efficiency of Control: 0%	
6. Potential Emissions: 0.05 lb/hour 0.22 tons/year	7. Synthetically Limited? [X] YES	
8. Emission Factor: 5.0 lb/1,000 gal	32. Emissions Method Code:	
Reference: AP-42 (Table 1.3-2)	3	
10. Calculation of Emissions (limit to 600 chara	acters):	
CO = (5.0 lb/1,000 gal)(10.0 gal/hr) = 0.05 lb/CO _{yearly} = (0.05 lb/hr)(8,760 hr/yr) / 2000 lb/to	on = 0.22 ton/yr	
Allowable Emissions Allowable Emissions	_4 of _5	
17. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable	
RULE	Emissions: NA	
18. Requested Allowable Emissions and Units: Emissions subject to opacity stds.	4. Equivalent Allowable Emissions:0.05 lb/hour 0.22 tons/year	
5. Method of Compliance (limit to 60 characters): Compliance will be achieved through fuel oil analyses supplies with every load delivered to this plant and kept on record and proper maintenance of this unit.		
6. Allowable Emissions Comment (Desc. Of C	perating Method) (limit to 200 characters):	

1. Pollutant Emitted: TOC	Pollutant Regulation	ılatory Code: EL
3. Primary Control Device Code: NA Code: 4. Secondary Code:	Control Device	5. Total Percent Efficiency of Control: 0%
6. Potential Emissions: 0.003 lb/hour 0.013 tons/year	·	7. Synthetically Limited? [X] YES
8. Emission Factor: 0.252 lb/1,000 gal		34. Emissions Method Code:
Reference: AP-42 (Table 1.3-4)		3
10. Calculation of Emissions (limit to 600 char	racters):	
TOC = (0.252 lb/1,000 gal) (10.0 gal/hr) = 0.1 TOC _{yearly} = (0.003 lb/hr)(8,760 hr/yr) / 2000 l	b/ton = 0.013 ton	
35. Pollutant Potential Emissions Comment (lin		
Allowable Emissions Allowable Emissions	5 of5	_
19. Basis for Allowable Emissions Code: RULE	2. Future Effe Emissions:	ective Date of Allowable NA
20. Requested Allowable Emissions and Units:	4. Equivalent	Allowable Emissions:
Emissions subject to opacity standards	0.003 lb/ho	our 0.013 tons/year
5. Method of Compliance (limit to 60 character fuel oil analyses supplies with every load del proper maintenance of this unit.	ivered to this pla	ant and kept on record and
6. Allowable Emissions Comment (Desc. Of	Operating Method	i) (limit to 200 characters):

Emissions Unit Information Section 2 of 5

E. VISIBLE EMISSIONS INFORMATION (Only Emissions Units Subject to a VE Limitation)

<u>Visible Emissions Limitation:</u> Visible Emiss	
1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:
VE20	[X] Rule [] Other
3. Requested Allowable Opacity:	
l = -	nal Conditions: 20 %
Maximum Period of Excess Opacity Allov	
4. Method of Compliance: EPA METHOD 9	
•	
5. Visible Emissions Comment (limit to 200)	characters):
Regulated under 62-296.320	
E. CONTENTIONS MA	
-	ONITOR INFORMATION
(Only Emissions Units Sub	ject to Continuous Monitoring)
Continuous Monitoring System: Continuou	s Monitor of
1. Parameter Code:	2. Pollutant(s):
	, ,
 Parameter Code: CMS Requirement: 	2. Pollutant(s): [] Rule [] Other
3. CMS Requirement:	, ,
3. CMS Requirement: 4. Monitor Information:	, ,
3. CMS Requirement: 4. Monitor Information: Manufacturer:	, ,
3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number:	[] Rule [] Other Serial Number:
3. CMS Requirement: 4. Monitor Information: Manufacturer:	[] Rule [] Other
3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number: 5. Installation Date:	[] Rule [] Other Serial Number: 6. Performance Specification Test Date:
3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number:	[] Rule [] Other Serial Number: 6. Performance Specification Test Date:
3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number: 5. Installation Date:	[] Rule [] Other Serial Number: 6. Performance Specification Test Date:
3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number: 5. Installation Date: 7. Continuous Monitor Comment (limit to 20)	[] Rule [] Other Serial Number: 6. Performance Specification Test Date:
3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number: 5. Installation Date: 7. Continuous Monitor Comment (limit to 20)	[] Rule [] Other Serial Number: 6. Performance Specification Test Date:
3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number: 5. Installation Date: 7. Continuous Monitor Comment (limit to 20)	[] Rule [] Other Serial Number: 6. Performance Specification Test Date:

EMMISSIONS ID. NO. 003

EMISSIONS FROM BCE - RECLAIMED ASPHALT VIBRATING SCREENER

III. EMISSIONS UNIT INFORMATION

BCE - Vibrating Reclaimed Asphalt Screener

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Ad	dressed in This Section: (Check	one)			
 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). 					
process or production unit	mation Section addresses, as a si is and activities which has at leas so produce fugitive emissions.				
	mation Section addresses, as a si is and activities which produce fu	ngle emissions unit, one or more gitive emissions only.			
2. Description of Emissions U	nit Addressed in This Section (lin	nit to 60 characters):			
asphalt to a desired size befor	sphalt Screening unit – used to e entering rotary mixing drum				
3. Emissions Unit Identification	on Number:	[] No ID			
ID: 003		[] ID Unknown			
11. Emissions Unit Status	12. Initial Startup Date:	13. Emissions Unit Major			
Code:		Group SIC Code:			
ACTIVE	ACTIVE (ASAP)	2951			
14. Emissions Unit Comment: (-	-			
This is an existing emissions u	nit and will remain as is with n	o changes.			
·					

Emissions Unit Information Section 3 of 5

Emissions Unit Control Equipment

9. Control Equipment/Method Description (limit to 200 characters per device or method):

All material crushed or ground by this crusher is already coated with liquid asphalt, therefore fugitive emissions from this point will be minimum to nil.

2. Control Device or Method Code(s):

Emissions Unit Details

Package Unit: Vibrating Material Screener
 Manufacturer: Bituma Engineering & Equipment Co. Model Number: RAP-100
 Generator Nameplate Rating: MW
 Incinerator Information:
 Dwell Temperature: °F

Dwell Time: seconds

Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

Maximum Heat Input Rate:
 Maximum Incineration Rate: lb/hr tons/day

- 3. Maximum Process or Throughput Rate: Maximum of 90.0 tph
- 4. Maximum Production Rate: 90.0 ton/hr.
- 9. Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

not to exceeed: 4000 hrs/year

10. Operating Capacity/Schedule Comment (limit to 200 characters):

This unit will operate continuously as recycle asphalt is produced. Unit will screen and feed no more than 90.0 tph to plant's mixing drum.

Emissions Unit Information Section $\underline{3}$ of $\underline{5}$

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or		10. Emission Po	oint Type Code:	
Flow Diagram? 003 RAP Screener		4		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit				
100 characters per point): N	A – Fugitive Er	nission Point	-	
	·			
11. ID Numbers or Descriptions	s of Emission Ur	its with this Emi	ssion Point in Common:	
	NOT APP	LICABLE		
12. Discharge Type Code:	6. Stack Heigl	nt:	7. Exit Diameter:	
F	~ 12 feet		Not Determinable feet	
8. Exit Temperature:	9. Actual Volumetric Flow		10. Water Vapor:	
~Ambient °F	Rate:		~5 %	
Unknown				
11. Maximum Dry Standard Flow Rate: 12. Nonstack Emission Point Height:				
dscfm feet				
13. Emission Point UTM Coordinates: (@ present location, other locations not as yet				
determined)				
Zone: 17 E	ast (km): 488.9]	E Nort	h (km): 2967.9 N	
14. Emission Point Comment (l	imit to 200 chara	acters):		
This emission point subject to				
	,			

Emissions Unit Information Section 3 of 5

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2 1. Segment Description (Process/Fuel Type) (limit to 500 characters): Fugitive emissions from vibrating screening unit. (Material Handling) emissions related to screening of reclaimed material. 37. SCC Units: 36. Source Classification Code (SCC): 30502510 Tons of product 6. Estimated Annual Activity 38. Maximum Hourly Rate: 39. Maximum Annual Rate: 90.0 ton/hr 360,000 ton/yr max. Factor: NA 40. Maximum % Sulfur: 42. Million Btu per SCC Unit: 41. Maximum % Ash: NA NA NA 10. Segment Comment (limit to 200 characters): FUGITIVE EMISSIONS CALCULATED AT WORST CASE SCENARIO Segment Description and Rate: Segment _____ of _ 1. Segment Description (Process/Fuel Type) (limit to 500 characters): 3. SCC Units: 2. Source Classification Code (SCC): 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 (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM10, TSP 2. Pollutant Regulatory Code: EL					
Code: None Code:	· · · · · · · · · · · · · · · · · · ·				
6. Potential Emissions: PM10: 0.21 lb/hr , 0 TSP: 0.44 lb/hour 0.90 tons/year	.43 ton/yr	7. Synthetically Limited? [X] YES			
8. Emission Factor: 0.0024 lb/ton		43. Emissions Method Code:			
Reference: AP-42 (Table 11.19.2-2)	1	3			
10. Calculation of Emissions (limit to 600 cha	racters):				
$\begin{split} PM10 &= (90.0 \text{ ton/hr}) \ (0.0024 \text{ lb/ton}) = 0.21 \text{ lb/hr} \\ PM10_{yearly} &= \left[(90.0 \text{ ton/hr}) (4000 \text{ hr/yr}) (0.0024 \text{ lb/ton}) \right] / 2000 \text{ lb/ton} = 0.43 \text{ ton/yr} \\ TSP_{hour} &= (0.21 \text{ lb/hr}) \ (2.1) = 0.44 \text{ lb/hr} \\ TSP_{yearly} &= (0.43 \text{ ton/hr}) (2.1) = 0.90 \text{ ton/yr} \end{split}$					
44. Pollutant Potential Emissions Comment (limit to 200 characters):					
44. I official Limssions Comment (mint to 200 characters).					
<u>Allowable Emissions</u> Allowable Emissions	1 of7	_			
3. Basis for Allowable Emissions Code: 2. Future Effective Date of Allowal		ective Date of Allowable			
RULE – Emissions subject to subpart 000	Emissions				
4. Requested Allowable Emissions and Units		t Allowable Emissions:			
<10% Opacity		lb/hr, 0.43 ton/hr			
,		hour, 0.90 tons/year			
5. Method of Compliance (limit to 60 charac	•	e will be achieved through			
initial and annual emissions compliance testing.					

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

E. VISIBLE EMISSIONS INFORMATION (Only Emissions Units Subject to a VE Limitation)

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation ___1__ of ___1_ 1. Visible Emissions Subtype: 2. Basis for Allowable Opacity: [X] Rule **VE10** [] Other 3. Requested Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: 10 % Maximum Period of Excess Opacity Allowed: NONE min/hour 4. Method of Compliance: EPA METHOD 9 5. Visible Emissions Comment (limit to 200 characters): Regulated under 40 CFR 60 subpart 000. F. CONTINUOUS MONITOR INFORMATION (Only Emissions Units Subject to Continuous Monitoring) Continuous Monitoring System: Continuous Monitor of 1. Parameter Code: 2. Pollutant(s): 3. CMS Requirement: [] Rule Other 4. Monitor Information: Manufacturer: Model Number: Serial Number: 5. Installation Date: 6. Performance Specification Test Date: 7. Continuous Monitor Comment (limit to 200 characters): **NOT APPLICABLE**

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1.	Process Flow Diagram
	[X] Attached, Document ID:III[] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification
	[X] Attached, Document ID:IV [] Not Applicable [] Waiver Requested
	Can be found in initial compliance test.
3.	Detailed Description of Control Equipment
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID:[X] Not Applicable [] Waiver Requested
5.	Compliance Test Report
	[X] Attached, Document ID: <u>IV</u>
	[X] Previously submitted, Date:
	[] Not Applicable
	f J
6.	Procedures for Startup and Shutdown
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
8.	Supplemental Information for Construction Permit Application
	[] Attached, Document ID: [X] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [] Not Applicable
10.	Supplemental Requirements Comment:

Emissions Unit Information Section $\underline{3}$ of $\underline{5}$

EMISSIONS ID. NO. 004

FUGITIVE EMISSIONS FROM PAVED & UNPAVED ROADS

III. EMISSIONS UNIT INFORMATION FUGITIVE EMISSIONS FROM PAVED & UNPAVED AREAS

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Ad	dressed 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).				
process or production uni	rmation Section addresses, as a s ts and activities which has at leas so produce fugitive emissions.	, , ,		
,	rmation Section addresses, as a s ts and activities which produce for	ingle emissions unit, one or more agitive emissions only.		
6. Description of Emissions U	Init Addressed in This Section (li	mit to 60 characters):		
unpaved areas and aggregate damp on an as needed basis.	d and unpaved areas – worst ca piles at this facility as well as o	~		
3. Emissions Unit Identification ID: 004	on Number:	[] No ID [] ID Unknown		
15. Emissions Unit Status Code: NA	16. Initial Startup Date: ASAP	17. Emissions Unit Major Group SIC Code: 2951		
18. Emissions Unit Comment: ((Limit to 500 Characters):			
Fugitive emissions from paved and unpaved areas - worst case scenario. All paved and				
	_	- 1		
unpaved areas and aggregate	piles at this facility and other lo	cations will be kept damp on an		
	piles at this facility and other lo	- 1		
unpaved areas and aggregate	piles at this facility and other lo	- 1		
unpaved areas and aggregate	piles at this facility and other lo	- 1		
unpaved areas and aggregate	piles at this facility and other lo	- 1		
unpaved areas and aggregate	piles at this facility and other lo	- 1		

Emissions Unit Information Section 4 of 5

Emissions Unit Control Equipment

13. Control Equipment/Method Description (limit to 200 characters per device or method):

All unpaved roadways at this facility and other locations are and will be kept damp by water truck and sprinkler system on a as needed basis. Vehicular traffic speed will be posted and enforced at a maximum of 5 m.p.h. at all locations.

2. Control Device or Method Code(s): 099

Emissions Unit Details

1.	Package Unit: NA		
	Manufacturer: Model Number:		
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information:		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat I	nput Rate:			
2. Maximum Incine	ration Rate:	lb/hr	tons/day	
3. Maximum Proces	ss or Throughput	Rate:		
4. Maximum Produ	ction Rate:			
11. Requested Maxir	num Operating So	chedule:		
24 hours/day	7 days/week			
52 weeks/year	not to exceeed: 400	00 hrs/year		
12. Operating Capaci	ity/Schedule Com	ment (limit to 200 characters):		
Vehicular traffic at this facility will not be continuous 24 hrs/day				

Emissions Unit Information Section 4 of 5

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or		14. Emission Point Type Code:			
Flow Diagram? 004 – Unpaved/Paved Areas		4			
3. Descriptions of Emission Po	oints Comprising	g this Emissions U	Unit for VE Tracking (limit to		
100 characters per point): N	A – Fugitive Er	nission Point			
	•	•			
15. ID Numbers or Descriptions	s of Emission Ur	nits with this Emi	ssion Point in Common:		
	NOT APP	LICABLE			
16. Discharge Type Code:	6. Stack Heigh	ht:	7. Exit Diameter:		
F	~ 0.0 feet		Not Determinable feet		
8. Exit Temperature:	9. Actual Volu	umetric Flow	10. Water Vapor:		
~Ambient °F	Rate:		~5 %		
	Unknown				
11. Maximum Dry Standard Flow Rate: 12. Nonstack Emission Point Height:					
	dscfm		feet		
13. Emission Point UTM Coord	linates: (@ prese	ent location, oth	er locations UTM not		
determined as of yet.) Zone	: 17 East (km):	488.9 E North	h (km): 2967.9 N		
14. Emission Point Comment (1	imit to 200 chara	acters):			
This emission point subject to	62-296.310 FA	C Rules and Reg	gulations.		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment __1_ of _2_

1. Segment Description (Process/Fuel Type) (limit to 500 characters):						
Fugitive emissions from p emissions related to silt con scenario.	´ •		-			
45. Source Classification Cod	le (SCC):	46. SCC Units	s:			
3050204		Vehicle Mil	les T	raveled		
47. Maximum Hourly Rate: NA	48. Maximum NA	Annual Rate:	6.	Estimated Annual Activity Factor: NA		
49. Maximum % Sulfur: NA	50. Maximum NA	% Ash:	51.	Million Btu per SCC Unit: NA		
10. Segment Comment (limit	to 200 characters	s):		-		
FUGITIVE EMISSION	ONS CALCULA	ATED AT WO	RST	CASE SCENARIO		
Segment Description and Ra	ate: Segment	of				
1. Segment Description (Pro	1. Segment Description (Process/Fuel Type) (limit to 500 characters):					
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	8. Maximum % Ash:		Million Btu per SCC Unit:		
10. Segment Comment (limit	to 200 characters	s):				

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM10, TSP 2. Pollutant		latory Code: EL		
	Control Device	5. Total Percent Efficiency		
Code: 099 Code:		of Control: 90.0%		
6. Potential Emissions: PM10: 1.0 lb/hr, 1.6	7 ton/yr	7. Synthetically Limited?		
TSP: 2.1 lb/hour 3.28 tons/year		[X]YES		
8. Emission Factor: 0.24 lb/VMT		52. Emissions Method Code:		
Reference: AP-42 (Section 13.2.1.1)	unpaved	3		
roads				
53. Calculation of Emissions (limit to 600 cha				
$E = k(5.9)[s/12][S/30][W/3]^{0.7}[w/4]^{0.5}[365-P/3]$				
$\mathbf{E} = 0.36(5.9)[8.9/12][5/30][31.3/3]^{0.7}[10/4]^{0.5}$				
E = 2.0 lb/VMT (1-0.90 control efficiency fr		0.2 lb/VMT		
$E_{daily} = (0.2 \text{ lb/VMT})(50 \text{ VMT/day}) = 10.0 \text{ lb}$	/day			
$E_{year} = [(10.0 \text{ lb/day}) / (\sim 12 \text{ hr/day}) (4000 \text{ hr})]$	/yr) / 2000 lb/ton =	= 1.67 ton/yr		
54. Pollutant Potential Emissions Comment (1	imit to 200 characte	ers):		
·				
,	•			
Allowable Emissions1_ of _7				
7. Basis for Allowable Emissions Code:	2. Future Effe	ctive Date of Allowable		
RULE				
8. Requested Allowable Emissions and Units	_	Allowable Emissions:		
<10% Opacity	PM10 = 1.0 lb/	hr, 1.67 ton/hr		
-	TSP = 2.10 lb/	hour, 3.28 tons/year		
	·			
5. Method of Compliance (limit to 60 charac	ters): Compliance	will be achieved through		
initial and annual emissions compliance tes	ting. Watering of	roadways and stockpiles		
will be performed as to control fugitive emi	ssions at all locatio	ons.		
6. Allowable Emissions Comment (Desc. of	Operating Method)	(limit to 200 characters):		

E. VISIBLE EMISSIONS INFORMATION (Only Emissions Units Subject to a VE Limitation)

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation ___1__ of ___1_ 1. Visible Emissions Subtype: 2. Basis for Allowable Opacity: **VE10** [X] Rule [] Other 3. Requested Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: 10 % Maximum Period of Excess Opacity Allowed: NONE min/hour 4. Method of Compliance: EPA METHOD 9 5. Visible Emissions Comment (limit to 200 characters): Regulated under 62-296.320 F. CONTINUOUS MONITOR INFORMATION (Only Emissions Units Subject to Continuous Monitoring) Continuous Monitoring System: Continuous Monitor of 1. Parameter Code: 2. Pollutant(s): [] Rule 3. CMS Requirement: [] Other 4. Monitor Information: Manufacturer: Model Number: Serial Number: 5. Installation Date: 6. Performance Specification Test Date: 7. Continuous Monitor Comment (limit to 200 characters): **NOT APPLICABLE**

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1.	Process Flow Diagram								
	[X] Attached, Document ID:III[] Not Applicable [] Waiver Requested								
2.	Fuel Analysis or Specification								
	[X] Attached, Document ID:_IV[] Not Applicable [] Waiver Requested								
	Can be found in initial compliance test.								
3.	3. Detailed Description of Control Equipment								
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested								
4.	Description of Stack Sampling Facilities								
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested								
5.	Compliance Test Report								
	[X] Attached, Document ID:								
	[X] Previously submitted, Date:								
	[] Not Applicable								
6.	Procedures for Startup and Shutdown								
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested								
7.	Operation and Maintenance Plan								
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested								
8.	Supplemental Information for Construction Permit Application								
	[] Attached, Document ID: [X] Not Applicable								
9.	Other Information Required by Rule or Statute								
	[] Attached, Document ID: [] Not Applicable								
10.	Supplemental Requirements Comment:								

Emissions Unit Information Section $\underline{4}$ of $\underline{5}$

EMISSIONS ID. NO. 005

FUGITIVES FROM STOCKPILES & CONVEYOR DROP POINTS

Emissions Unit Information Section	5	of	5	
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III. EMISSIONS UNIT INFORMATION

FUGITIVE EMISSIONS FROM AGGREGATE HANDLING

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1 True of Parissions Hait Ad			
1. Type of Emissions Unit Ad	dressed in This Section: (Check	one)	
process or production uni	rmation Section addresses, as a s t, or activity, which produces on finable emission point (stack or v	e or more air pollutants and	
[] 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.			
	rmation Section addresses, as a s ts and activities which produce f	ingle emissions unit, one or more ugitive emissions only.	
11. Description of Emissions U	nit Addressed in This Section (li	mit to 60 characters):	
Fugitive emissions from paved and unpaved areas – worst case scenario. All paved and unpaved areas and aggregate piles at this facility and other locations will be kept damp on an as needed basis.			
3. Emissions Unit Identification	on Number:	[] No ID	
ID: 005		[] ID Unknown	
19. Emissions Unit Status	20. Initial Startup Date:	21. Emissions Unit Major	
Code:		Group SIC Code:	
	20. Initial Startup Date: ASAP	1	

Emissions Unit Information Section5 of5	
Emissions Unit Control Equipment	
17. Control Equipment/Method Description (limit to 200 characters per de	evice or method):
All aggregate stockpiles at this facility and other locations will be truck and sprinkler system on a as needed basis.	kept damp by water
2. Control Device or Method Code(s): 099	
Emissions Unit Details	•
Package Unit: NA Manufacturer: Model Number:	
2. Generator Nameplate Rating: MW	
3. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:	°F seconds °F
Emissions Unit Operating Capacity and Schedule	
 Maximum Heat Input Rate: Maximum Incineration Rate: Maximum Process or Throughput Rate: Maximum Production Rate: Requested Maximum Operating Schedule: A hours/day Adays/week weeks/year Operating Capacity/Schedule Comment (limit to 200 characters): 	tons/day
Aggregate Handling at this facility will not be continuous 24 hrs/day	

Emissions Unit Information Section 5 of 5	Emissions	Unit Information Section	5	of	5	
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B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

. Identification of Point on Plot Plan or 18. Emission Point Type Code:					
Flow Diagram? 005 – Conv	eyor Drops,	4			
Loader Operations	•				
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to					
100 characters per point): NA – Fugitive Emission Point					
19. ID Numbers or Descriptions	s of Emission Ur	nits with this Emi	ssion Point in Common:		
	NOT APP	LICABLE			
20. Discharge Type Code:	6. Stack Heigh	ht:	7. Exit Diameter:		
F	~ 0.0 feet		Not Determinable feet		
8. Exit Temperature:	9. Actual Volu	umetric Flow	10. Water Vapor:		
~Ambient °F	Rate:		~5 %		
	Unkno	wn			
11. Maximum Dry Standard Flow Rate: 12. Nonstack Emission Point Height:					
dscfm feet					
13. Emission Point UTM Coordinates: (@ present location. UTM's for other locations have					
not been determined as of yet)				
Zone: 17 E	ast (km): 488.9 1	E Nortl	h (km): 2967.9 N		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
14. Emission Point Comment (limit to 200 characters):					
This emission point subject to 62-296.310 FAC Rules and Regulations.					

Emissions Unit Information Section5 of5				
C. SEGMENT (PROCESS/FUEL) INFORMATION				
Segment Description and Ra	Segment Description and Rate: Segment 1 of 2			
1. Segment Description (Prod	cess/Fuel Type)	(limit to 500 cl	naracters):	
Fugitive emissions from aggregate stockpiles and conveyor belts (Material Handling) emissions related to fugitives from conveyor belt drops and from aggregate storage piles from prevailing winds.				
55. Source Classification Code	` '	56. SCC Unit		
3050207, 305020			ckpiles / tons of products	
57. Maximum Hourly Rate: NA	NA	Annual Rate:	6. Estimated Annual Activity Factor: NA	
59. Maximum % Sulfur: NA	60. Maximum NA	% Ash:	61. Million Btu per SCC Unit:	
FUGITIVE EMISSIO	ONS CALCULA	AIED AI WO	RST CASE SCENARIO	
Segment Description and Rate: Segment of				
1. Segment Description (Prod	cess/Fuel Type)	(limit to 500 c	haracters):	
2. Source Classification Code	e (SCC):	3. SCC Units	S:	
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 (limit t	to 200 characters	s):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

		,		
1. Pollutant Emitted: PM10	, TSP	2. Pollutant Reg	gulatory Code: EL	
3. Primary Control Device	4. Secondary	Control Device	5. Total Percent Efficiency	
Code: 099	Code:		of Control: 90.0%	
6. Potential Emissions: PM1	0 : 0.20 lb/hr, 0	0.41 ton/yr	7. Synthetically Limited?	
TSP	= 0.42 lb/hr, 0.	86 ton/yr	[X]YES	
6. Emission Factor:			9.Emissions Method Code:	
			3	
Reference: AP-42 (Section			<u> </u>	
7. Calculation of Emissions	(limit to 600 ch	aracters):		
$E = k(0.0032)[u/5]^{1.3}[M/2]^{1.4}$				
$E = 0.35(0.0032)[7/5]^{1.3} / [0.7]$	•	b/ton		
E = 250 ton/hr (0.0081 lb/ton) = 2.03 lb/hr				
$E = (2.03 \text{ lb/hr})(1-0.90 \text{ collector efficiency}) (\sim 24 \text{ hr/day}) = 4.87 \text{ lb/day}$				
$E = [(4.87 \text{ lb/day}) / (\sim 24 \text{ hr/d})]$	lay) (4000 hr/y)	r) / $2000 lb/ton =$	0.41 ton/yr	
8. Pollutant Potential Emissi	ons Comment (limit to 200 charac	cters):	
Aggregate Storage Piles & Co	onveyor Drops	– Fugitive Emissi	ions (controlled) are subject to	
62-296.700 (2)(e)(f)				

Allowable Emissions ___1__ of __7___

12. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
RULE	Emissions: NA
13. Requested Allowable Emissions and Units:	14. Equivalent Allowable Emissions:
<10% Opacity	PM10: 0.20 lb/hr, 0.41 ton/hr
	TSP = 0.42 lb/hr, 0.86 ton/yr
5 Method of Compliance (limit to 60 character	s). Compliance will be achieved through

- 5. Method of Compliance (limit to 60 characters): Compliance will be achieved through initial and annual emissions compliance testing. Watering of stockpiles will be performed as to control fugitive emissions at all sites.
- 6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):

Emissions Unit Information Section 5 of	. 3	
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E. VISIBLE EMISSIONS INFORMATION

(Only Emissions Units Subject to a VE Limitation) <u>Visible Emissions Limitation:</u> Visible Emissions Limitation ___1__ of ___1__ 1. Visible Emissions Subtype: 2. Basis for Allowable Opacity: **VE10** [X] Rule [] Other 3. Requested Allowable Opacity: Exceptional Conditions: 10 % Normal Conditions: 10 % Maximum Period of Excess Opacity Allowed: NONE min/hour 4. Method of Compliance: EPA METHOD 9 5. Visible Emissions Comment (limit to 200 characters): Regulated under 62-296.320 F. CONTINUOUS MONITOR INFORMATION (Only Emissions Units Subject to Continuous Monitoring) Continuous Monitoring System: Continuous Monitor ____ of ____ 1. Parameter Code: 2. Pollutant(s): 3. CMS Requirement: [] Rule [] Other 4. Monitor Information: Manufacturer: Model Number: Serial Number: 6. Performance Specification Test Date: 5. Installation Date: 7. Continuous Monitor Comment (limit to 200 characters): **NOT APPLICABLE**

Emissions Unit Information Section	5	of	5	
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G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

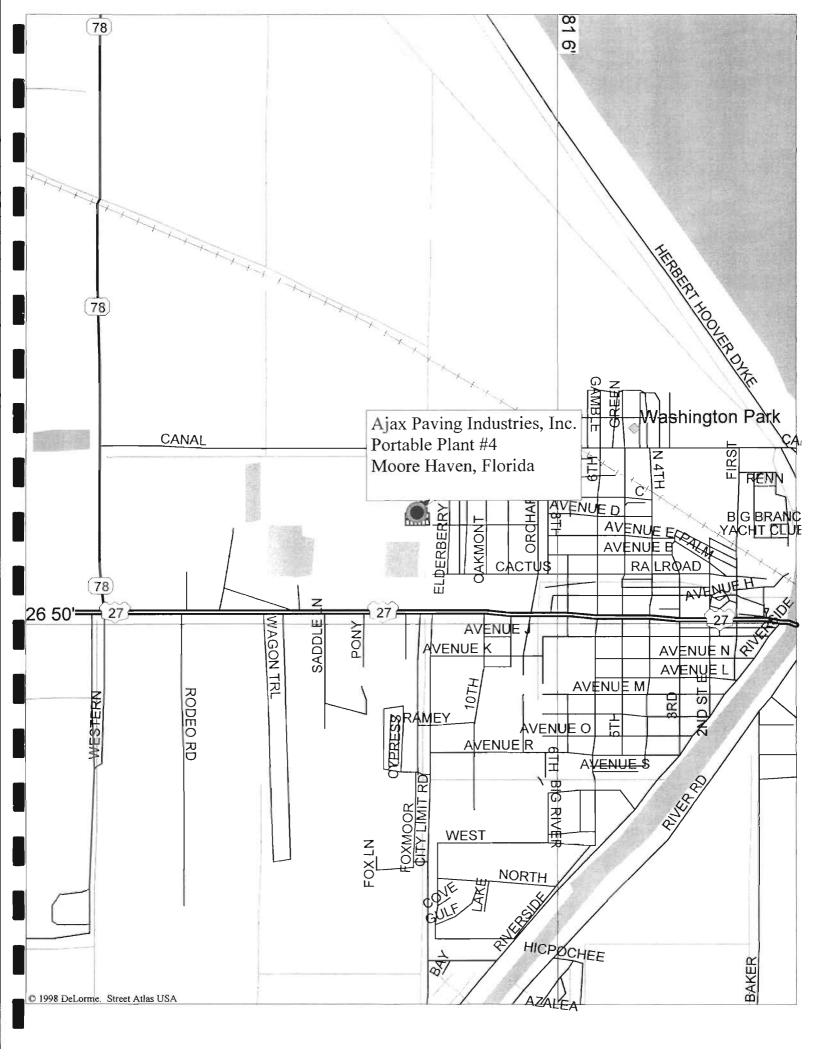
Supplemental Requirements

1.	Process Flow Diagram
	[X] Attached, Document ID:III[] Not Applicable [] Waiver Requested
2	Fuel Analysis or Specification
۷.	[X] Attached, Document ID: IV [] Not Applicable [] Waiver Requested
	Can be found in initial compliance test.
3	Detailed Description of Control Equipment
٥.	
	[] Attached, Document ID: [] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities
	Attached, Document ID: [] Not Applicable [] Waiver Requested
5.	Compliance Test Report
	[X] Attached, Document ID:
	[X] Previously submitted, Date:
	[] Not Applicable
6.	Procedures for Startup and Shutdown
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7	Operation and Maintenance Plan
/٠	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
	[A] Not Applicable [] Waiver Requested
8.	Supplemental Information for Construction Permit Application
	[] Attached, Document ID: [X] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [] Not Applicable
10.	Supplemental Requirements Comment:
	**

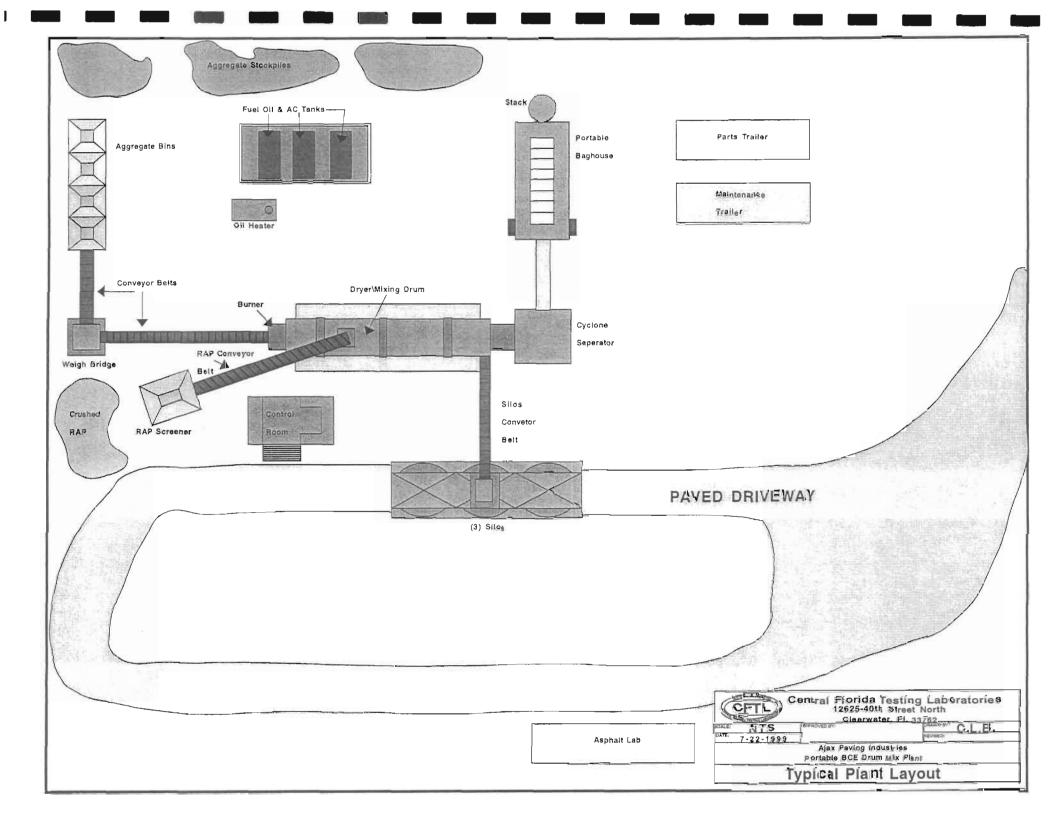
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- I. FACILITY LOCATION
- II. SITE PLAN
- III. FLOW DIAGRAM
- IV. INITIAL COMPLIANCE TEST
- V. SUPPLEMENTAL INFORMATION

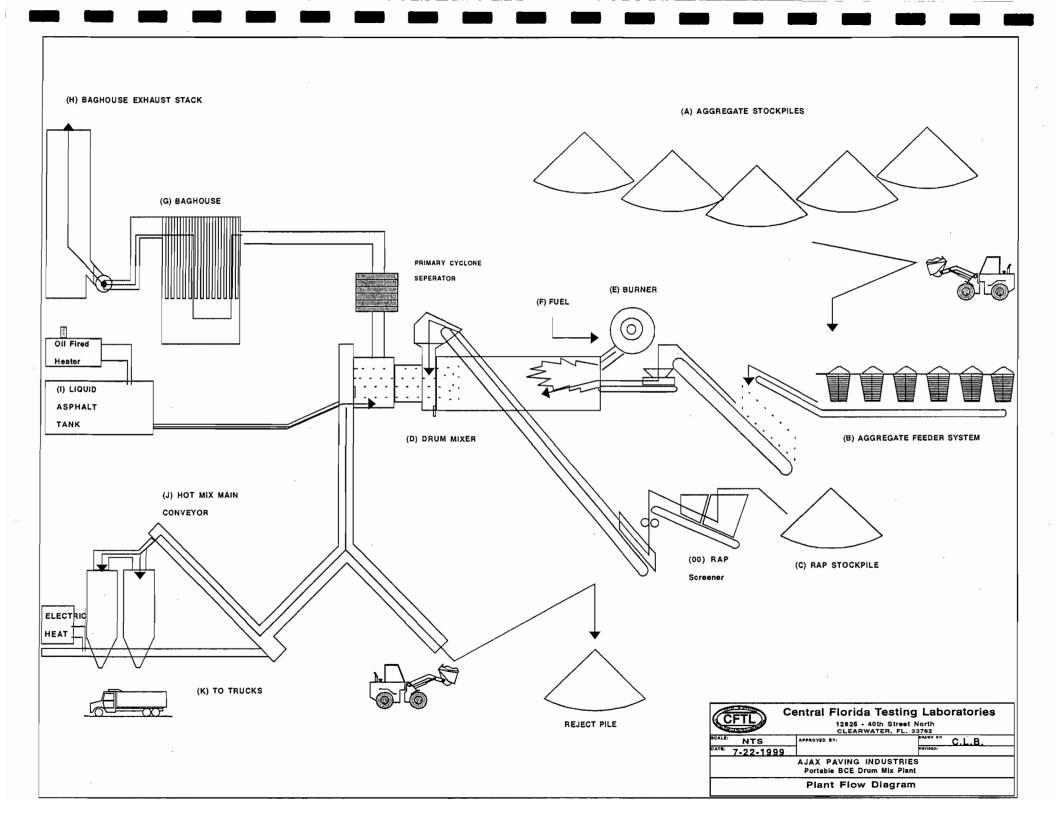
I. FACILITY LOCATION



II. SITE PLAN



III. FLOW DIAGRAM



IV. INITIAL COMPLIANCE TEST

I. PURPOSE OF TEST

This source consists of a portable 250 ton per hour Bituma Construction & Engineering Company (BCE), Inc. – Drum Mix Asphalt Batch Plant owned and operated by Ajax Paving Industries, Inc. of Nokomis, Florida. This asphaltic concrete producing facility is now located at 1740 - U.S. 27 South in Moorehaven, Glades County, Florida, were it has started it's initial operation as a portable plant.

This asphaltic concrete manufacturing facility utilizes a BCE, Inc. – Primary Collector that removes 50% of the dust emissions created in the drying/mixing drum followed by a BCE, Inc., Model 400 baghouse control system rated at 99.9% efficient by the manufacturer, to control the emissions of dust particles which are generated in the rotary dryer and screening tower of this plant.

The testing was conducted to show compliance with the "Statewide" Florida Department of Environmental Protection (FDEP) construction permit No. 7770060-003-AC issued for the construction and relocation of this asphaltic concrete manufacturing facility. The specific conditions of this construction permit requires that initial testing be performed to determine the amount of particulate, visible and sulfur dioxide emissions in the exhaust gas stream of the plant. This source is limited to emission existing the asphaltic concrete producing facilities of 0.04 grains per dry standard cubic foot of exhausted air or gas, in accordance with F.A.C. Rules 62-296.704 and 62-4.070(3), while the visible emissions from the exhaust gas stream of the stack are limited to an opacity of twenty (20) twenty percent.

II. TEST METHODS

The testing was performed in accordance with the methods prescribed in Section 62-2.700, "Stationary Point Source Emissions Test Procedures" as published by the Florida Department of Environmental Protection in Chapter 62-2 of the Florida Administrative Code. The particulate and visible emissions tests were conducted in accordance with the procedures outlined in "Method 5 - Determination of Particulate Emissions from Stationary Sources" and "Method 9 - Determination of the Opacity of Emissions from Stationary Sources" as published by the U.S. Environmental Protection Agency in Appendix A of Title 40, Part 60 of the Code of Federal Regulations with the following exception. A heated stainless steel liner was utilized in lieu of a quartz liner in the Method 5 sampling train. In addition, a fifth empty modified Greenburg-Smith impinger was placed in the condensing unit of the sampling train due to high moisture contents encountered in the gas stream.

III. TEST PERSONNEL

This compliance test was conducted by Central Florida Testing Laboratories, Inc. of Largo, Florida. The source sampling team consisted of Bernard A. Ball, Jr., Environmental Engineer, test team supervisor and ETA state certified observer, Mr. Christopher Briley, Environmental Technician and ETA state certified observer and Mr. Christopher Coyle, Environmental Technician.

Process weight determinations and plant operating parameters were computer monitored and logged by Mr. Robert Ray asphalt plant operations supervisor for Ajax Paving Industries and Mr. Bernard A. Ball, Jr. of Central Florida Testing Laboratories, Inc.

During initial compliance testing at this facility the Florida Department of Environmental Protection (FDEP) was represented by Mr. Earl Baker, Engineer from their Air Quality Enforcement Division located in Ft. Myers, Florida.

IV. DISCUSSION OF RESULTS

During the initial particulate and visible emission compliance testing, the plant was producing a virgin Florida Department of Transportation (FDOT) specification Type S-3 virgin asphaltic concrete mix at rates of 193.1 to 194.6 tons per hour. To produce asphaltic concrete at these rates, the plant's burner system was consuming reclaimed "on-spec" No. 5 fuel oil at rates of 440.6 to 447.5 gallons per hour. In addition, to control the emission generated in the rotary dryer of the plant, the baghouse system was being operated at an average differential pressure drop of 4.6 to 4.8 inches of water.

As shown in the "Summary of Results" of this test, the average particulate emission concentration in the exhaust gas stream from the plant's baghouse control system was only 0.0132 grains per dry standard cubic foot. This is equivalent to a mass emissions rate of only 2.38 pounds per hour. The particulate emission concentration in the exhausted gas stream from this asphaltic concrete manufacturing facility is below the permitted allowable "Standards of Performance for Hot Mix Asphalt Facilities" emission limitation of 0.04 grains per dry standard cubic foot of exhaust gas or air.

Results of the required three - one hour visible emission compliance test performed simultaneously with each of the particulate test runs, also indicates that the emissions from this facility are being controlled on a consistent basis, as little to no visible or fugitive emissions were observed from this asphaltic concrete producing facility during the initial compliance testing period at this facility.

A fuel oil analysis from International Petroleum Corporation, Inc., the supplier of the No. 5 "on-spec" reclaimed fuel oil to fire the plants burner system during the compliance test, was delivered to the plant on 01-07-2000 showed that all parameters met the criteria levels for "on-spec" fuel oil. The analysis also showed the Sulfur (S) content in the fuel oil to be 0.43 percent by weight. The Sulfur in the fuel oil combines with Oxygen during the combustion process to form Sulfur Dioxide which was escaping the primary collector and baghouse control system of this plant at a maximum mathematically estimated rate of 28.29 pounds per hour during the compliance testing.

IV. DISCUSSION OF RESULTS (cont.)

As these tests demonstrate, the BCE, Inc. – Primary Collection System followed by the BCE, Inc. – Model 400 baghouse control system utilized by Ajax Paving Industries, Inc. on its Portable BCE, Inc. Drum Mix Plant located in Moorehaven, Florida are operating properly and very effectively controlling the emissions of dust particles, fugitives and gaseous emissions from this plant while producing virgin or reycled asphalt mix is operating in compliance with it's FDEP Construction Permit No. 7770060-003-AC and it's specific conditions.

Report compiled by:	Supervising Engineer;
	4.1
<u> </u>	Sylltenn
Bernard A. Ball, Jr.	George C. Sinn, Jr., P.E.

CFTL

Aiax Paving. Industries Plant No. 4

February 10, 2000

CFTL No.: 130463

PARTICULATE EMISSIONS SOURCE TEST RESULTS

	RUN	1	2	3	AVG
	DRY GAS VOLUME (dscf):	38.11	38.18	37.93	38.07
	GAS STREAM VELOCITY (fps):	65.94	66.59	66.73	66.42
	ACTUAL VOLUMETRIC FLOW RATE (ACFM):	44866	45308	45403	45192
	STANDARD VOLUMETRIC FLOW RATE (SCFM):	20948	21111	20931	20997
	PERCENT MOISTURE:	34.0	34.0	34.3	34.1
	STACK TEMPERATURE (°F):	290.6	291.4	295.0	292.3
	PERCENT ISOKINETIC:	100.8	100.3	100.5	100.5
	GRAIN LOADING (grains/dscf):	0.0132	0.0130	0.0134	0.0132
	ACTUAL EMISSION RATE (lb/hr):	2.37	2.36	2.40	2.38
	ALLOWABLE EMISSIONS (gr/dscf):	0.04	0.04	0.04	0.04
1					

CFTL

Aiax Paving. Industries Plant No. 4

February 10, 2000

CFTL No.: 130463

PARTICULATE EMISSIONS SOURCE TEST RESULTS

1	2	3
416.1	417.3	420.0
64.6	73.8	82.4
36.052	36.793	37.187
30.09	30.06	30.02
30.09	30.06	30.02
11.34	11.34	11.34
0.000341	0.000341	0.000341
290.6	291.4	295.0
60	60	60
0.895	0.911	0.908
1.070	1.088	1.085
30.11	30.09	30.05
0.82	0.82	0.82
32.6	32.3	33
	64.6 36.052 30.09 30.09 11.34 0.000341 290.6 60 0.895 1.070 30.11 0.82	416.1 417.3 64.6 73.8 36.052 36.793 30.09 30.06 30.09 30.06 11.34 11.34 0.000341 0.000341 290.6 291.4 60 60 0.895 0.911 1.070 1.088 30.11 30.09 0.82 0.82



Plant No. 4

Annual Emissions Compliance Test

Calculation of Emissions

RUN # 1

Dry Meter Volume Corrected to STP

$$VMSTD = \delta \times V_M \times \left(\frac{T_{STD}}{T_M}\right) \times \left(\frac{P_B + \frac{\Delta H}{13.6}}{P_{STD}}\right) \Rightarrow$$

$$1.0415 \times 36.052 \times \left(\frac{528}{524.6}\right) \times \left(\frac{30.09 + \frac{1.070}{13.6}}{29.92}\right) = 38.11 \text{ C. F.}$$

Water Vapor Volume

$$VWSTD = 0.04714 \times VL \Rightarrow$$

$$0.04714 \times (416.1) = 19.61 \text{ C. F.}$$

Moisture in Gas Stream

$$B \ w \ o \ = \ \frac{V \ W \ S \ T \ D}{V \ W \ S \ T \ D} \ \Rightarrow \ \frac{19.61}{19.61 + 38.11} \ = \ 34.0 \ \%$$

Molecular Weight of Gas

$$Ms = 28.952 \times (1 - Bwo) + 18 \times Bwo \Rightarrow$$

$$28.952 \times (1 - 0.340) + 18 \times (0.340) = 25.23 \text{ lb/lb mole}$$

Gas Stream Velocity

$$V_{S} = 85.48 \times C_{P} \times \left(\frac{T_{S} \times \Delta_{P}}{P_{S} \times M_{S}}\right)^{\frac{1}{2}} \Rightarrow$$

$$85.48 \times \left(0.82\right) \times \left(\frac{750.6 \times 0.895}{30.09 \times 25.23}\right)^{\frac{1}{2}} = 65.94 \text{ fps}$$

Stack Volumetric Flow Rate

ACFM = As × Vs × 60
$$\Rightarrow$$
 (11.34)× (65.94)× (60) \Rightarrow



Plant No. 4

Annual Emissions Compliance Test

Calculation of Emissions

RUN # 1 (cont)

Stack Flow Corrected to STP

$$SCFM = ACFM \times \left(1 - Bwo\right) \times \left(\frac{TsTD}{Ts}\right) \times \left(\frac{Ps}{PsTD}\right) \Rightarrow$$

$$44866 \times \left(1 - 0.340\right) \times \left(\frac{528}{750.6}\right) \times \left(\frac{30.09}{29.92}\right) = 20948 \ CFM$$

Percent Isokinetic

$$I = \frac{1.667 \times \left(0.00267 \times VL + \left(\frac{VM \times \delta}{TM}\right) \times \left(PB + \frac{\Delta H}{13.6}\right)\right) \times Ts}{\theta \times Vs \times Ps \times AN} \Rightarrow$$

$$1.667 \times \left(0.00267 \times 416.1 + \left(\frac{36.052 \times 1.0415}{524.6}\right) \times \left(30.09 + \frac{1.070}{13.6}\right)\right) \times 750.6$$

$$60 \times 65.94 \times 30.09 \times 0.000341$$

= 100.8 %

Grain Loading

$$Cs = 0.0154 \times \left(\frac{M_N}{SCF}\right) \Rightarrow 0.0154 \times \left(\frac{32.6}{38.11}\right) = 0.0132 \; GRAINS/SCF$$

Emission Rate

$$E = Cs \times SCFM \times \left(\frac{60}{7000}\right) \Rightarrow 0.0132 \times 20948 \times \left(\frac{60}{7000}\right) = 2.37 \ lb/hr$$

Allowable Emission Rate

$$Ea = 0.04$$



Plant No. 4

Annual Emissions Compliance Test

Calculation of Emissions

RUN.# 2

Dry Meter Volume Corrected to STP

$$VM \, STD = \delta \times V_M \times \left(\frac{T_{STD}}{T_M}\right) \times \left(\frac{P_B + \frac{\Delta H}{13.6}}{P_{STD}}\right) \Rightarrow$$

$$1.0415 \times 36.793 \times \left(\frac{528}{533.8}\right) \times \left(\frac{30.06 + \frac{1.088}{13.6}}{29.92}\right) = 38.18 \text{ C. F.}$$

Water Vapor Volume

$$VWSTD = 0.04714 \times VL \Rightarrow$$

$$0.04714 \times (417.3) = 19.67 \text{ C. F.}$$

Moisture in Gas Stream

$$B \ W \ O = \frac{V \ W \ S \ T \ D}{V \ W \ S \ T \ D} \Rightarrow \frac{19.67}{19.67 + 38.18} = 34.0 \%$$

Molecular Weight of Gas

$$Ms = 28.952 \times (1 - Bwo) + 18 \times Bwo \Rightarrow$$

$$28.952 \times (1 - 0.340) + 18 \times (0.340) = 25.23 \text{ lb/lb mole}$$
Gas Stream Velocity

$$V_{S} = 85.48 \times C_{P} \times \left(\frac{T_{S} \times \Delta_{P}}{P_{S} \times M_{S}}\right)^{\frac{1}{2}} \Rightarrow$$

$$85.48 \times \left(0.82\right) \times \left(\frac{751.4 \times 0.911}{30.06 \times 25.23}\right)^{\frac{1}{2}} = 66.59 \text{ fps}$$

Stack Volumetric Flow Rate

$$ACFM = As \times Vs \times 60 \Rightarrow (11.34) \times (66.59) \times (60) \Rightarrow$$

= 45308 CFM



Plant No. 4

Annual Emissions Compliance Test

Calculation of Emissions

RUN # 2 (cont)

Stack Flow Corrected to STP

$$SCFM = ACFM \times \left(1 - Bwo\right) \times \left(\frac{TSTD}{TS}\right) \times \left(\frac{PS}{PSTD}\right) \Rightarrow$$

$$45308 \times \left(1 - 0.340\right) \times \left(\frac{528}{7514}\right) \times \left(\frac{30.06}{29.92}\right) = 21111 CFM$$

% Isokinetic

$$I = \frac{1.667 \times \left(0.00267 \times VL + \left(\frac{VM \times \delta}{TM}\right) \times \left(PB + \frac{\Delta H}{13.6}\right)\right) \times Ts}{\theta \times Vs \times Ps \times AN} \Rightarrow$$

$$\frac{1.667 \times \left(0.00267 \times 417.3 + \left(\frac{36.793 \times 1.0415}{533.8}\right) \times \left(30.06 + \frac{1.088}{13.6}\right)\right) \times 751.4}{60 \times 66.59 \times 30.06 \times 0.000341} \Rightarrow$$

100.3

Grain Loading

$$Cs = 0.0154 \times \left(\frac{MN}{SCF}\right) \Rightarrow$$

$$0.0154 \times \left(\frac{32.3}{38.18}\right) = 0.0130 \ GRAINS/SCF$$

Emission Rate

$$E = Cs \times SCFM \times \left(\frac{60}{7000}\right) \Rightarrow 0.0130 \times 21111 \times \left(\frac{60}{7000}\right) = 2.36 \quad lb/hr$$

Allowable Fmission Rate

$$E a = 0.04$$



Plant No. 4

Annual Emissions Compliance Test

Calculation of Emissions

RUN # 3

Dry Meter Volume Corrected to STP

$$VMSTD = \delta \times VM \times \left(\frac{TSTD}{TM}\right) \times \left(\frac{PB + \frac{\Delta H}{13.6}}{PSTD}\right) \Rightarrow$$

$$1.0415 \times 37.187 \times \left(\frac{528}{542.4}\right) \times \left(\frac{30.02 + \frac{1.085}{13.6}}{29.92}\right) = 37.93 \text{ C. F.}$$

Water Vapor Volume

$$VWSTD = 0.04714 \times VL \Rightarrow$$

$$0.04714 \times (420.0) = 19.80 \text{ C. F.}$$

Moisture in Gas Stream

$$B \ w \ o \ = \ \frac{V \ W \ S T D}{V \ W \ S T D + V \ M \ S T D} \ \Rightarrow \ \frac{19.80}{19.80 + 37.93} \ = \ 34.3 \ \%$$

Molecular Weight of Gas

$$Ms = 28.952 \times (1 - Bwo) + 18 \times Bwo \Rightarrow$$

$$28.952 \times \left(1 - 0.343\right) + 18 \times \left(0.343\right) = 25.20$$
 | Stream Velocity | Gas Stream Velocity |

$$V_{S} = 85.48 \times C_{P} \times \left(\frac{T_{S} \times \Delta_{P}}{P_{S} \times M_{S}}\right)^{1/2} \Rightarrow$$

$$85.48 \times \left(0.82\right) \times \left(\frac{755.0 \times 0.908}{30.02 \times 25.20}\right)^{1/2} = 66.73 \text{ fps}$$

Stack Volumetric Flow Rate

$$ACFM = As \times Vs \times 60 \Rightarrow (11.34) \times (66.73) \times (60) \Rightarrow$$

= 45403 CFM



Plant No. 4

Annual Emissions Compliance Test

Calculation of Emissions

RUN # 3 (cont)

Stack Flow Corrected to STP

$$SCFM = ACFM \times \left(1 - Bwo\right) \times \left(\frac{T_{STD}}{T_S}\right) \times \left(\frac{P_S}{P_{STD}}\right) \Rightarrow$$

$$45403 \times \left(1 - 0.343\right) \times \left(\frac{528}{7550}\right) \times \left(\frac{30.02}{20.02}\right) = 20931 \ CFM$$

% Isokinetic_

$$I = \frac{1.667 \times \left(0.00267 \times VL + \left(\frac{VM \times \delta}{TM}\right) \times \left(PB + \frac{\Delta H}{13.6}\right)\right) \times Ts}{\theta \times Vs \times Ps \times AN} \Rightarrow$$

$$\frac{1.667 \times \left(0.00267 \times 420.0 + \left(\frac{37.187 \times 1.0415}{542.4}\right) \times \left(30.02 + \frac{1.085}{13.6}\right)\right) \times 755.0}{} \Rightarrow$$

$$60 \times 66.73 \times 30.02 \times 0.000341$$

Grain Loading

$$Cs = 0.0154 \times \left(\frac{MN}{SCF}\right) \Rightarrow$$

$$0.0154 \times \left(\frac{33.0}{37.93}\right) = 0.0134 \ GRAINS/SCF$$

Emission Rate

$$E = Cs \times SCFM \times \left(\frac{60}{7000}\right) \Rightarrow 0.0134 \times 20931 \times \left(\frac{60}{7000}\right) = 2.40 \ lb/hr$$

Allowable Fmission Rate

$$E a = 0.04$$



VISIBLE EMISSIONS OBSERVATION FORM

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:	FORM NUMBER PAGE OF
COMPANY NAME Ajax Paving Industries, Inc.	CONTINUED ON VEO NUMBER
STREET ADDRESS 1740 U.S. 27 South Moore Haven	OBSERVATION DATE START TIME END TIME 2-10-2000 7:44:00 4M 8:43:45 AM
MAILING ADDRESS	SEC 0 15 30 45 MIN 0 15 30 45
510 Gene Green Road	1 0 5 0 7 31 0 0 0
Nokomis Florida 34275 PHONE/KEY CONTACT SOURCE PERMIT NUMBER	2 0 0 0 0 32 0 0 0 0
7770060-003-AC	3 0 0 5 0 33 0 0 0 0
PROCESS EQUIPMENT Drum Mix Asphalt Plant OPERATING MODE * See Below	4 0 0 0 0 34 0 0 0 0
CONTROL EQUIPMENT OPERATING MODE Baghouse System Continuous	5 0 0 0 0 35 0 0 0 0
DESCRIBE EMISSION PT.	6 0 0 0 0 36 0 0 0 0
Rectangular exhaust stack on NW end	7 0 5 0 0 37 0 0 0 0
DISTANCE TO EMISS. PT. DIRECTION TO EMISS. PT. (DEGREES)	8 0 0 0 0 38 0 0 0 0
START ~600' END ~600' START 3430(NW)END 3430(NW) HEIGHT OF EMISS PT. HEIGHT TO EMISS. PT. REL. TO OBSERVER	9 0 5 0 0 39 5 0 0 0
START ~ 20' END ~ 20' START ~ 15' END ~ 15'	10 0 0 0 40 0 0 0
VERTICAL ANGLE TO OBS. PT. DIRECTION TO OBS. PT. (DEGREES) START 30 END 30 START 325 (NW) END 325 (NW) APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT	11 0 0 0 5 41 0 0 0 0
START ~500' 5W of emiss phend ~500'SW of emiss. A.	12 0000420000
DESCRIBE EMISSIONS	13 0 0 0 43 0 0 5 0
START NONE END NONE EMISSION COLOR WATER DROPLET PLUME START NONE END NONE MATTACHED DETACHED NONE	14 0 0 0 0 44 0 0 0 0
DESCRIBE PLUME BACKGROUND	15 0 0 0 0 0 0 0
BACKGROUND COLOR 31 SKY CONDITIONS	16 0 0 0 46 0 0 0
START Blue END Blue wintered WIND SPEED WIND SPEED	17 0 0 0 0 0 0 0
START O-5 MON END O-5 MON START NO END NE AMBIENT TEMPÉRATURE WET BULB TEMP. PERCENT RH	18 0 0 5 0 48 0 0 0 0
START 45.5 ° F END SO. 1 ° F	19 0 0 0 0 49 0 0 0 5 20 0 0 0 0 0 0 0 0 0
COLID CE LA VOLLT CVETCH DRAW NORTH ARROW	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Boulder.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
POINT	23 5 6 6 53 6 6 6
	24 0 0 0 54 0 0 5 0
Consider Will	25 0 0 0 35 0 0 0
Conner 20' FT	26 0 0 0 56 0 0 0
OBSERVER'S POSITION ALOO FT	27 0 0 0 57 5 0 0 0
SIDE VIEW	28 0 0 0 0 58 0 0 0
STACK WITH PLUME SUN	29 0 0 0 5 59 0 0 0 0
SUN LOCATION LINE SUN WIND	30 0 0 0 60 0 0 0
LAT: LONG: DECLINATION	AVERAGE OPACITY HIGHEST SIX MINUTE INTERVAL
ADDITIONAL INFORMATION	OBSERVER'S NAME (PRINT)
VE test performed simultaneously with Runt 1	Christopher L. Briley OBSERVER'S SIGNATURE DATE
of particulate test. No objectionable odors nor	OBSERVER'S SIGNATURE ORGANIZATION DATE 2-10-2000
Fingitives detected. *= 500 Process Weight and	Central Florida Testing Laboratories, Inc.
Flunt Operating Parameter sention of this test:	E.T.A Tampa 8-25-1999



VISIBLE EMISSIONS OBSERVATION FORM

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B	OTHER:	FORM I	NUMBER					P	AGE	/ 0	F /	
COMPANY NAME Ajax Paving Industries, Inc.		CONTIN	UED ON	VEO N	NUMBER	• ,				,		
STREET ADDRESS CITY	oore Haven		/ATION		りつ			т тімі	20 An		TIME 2/4/3	SAM
MAILING ADDRESS 510 Gene Green Road	ooie naven	SEC		15	30	4.	<u> </u>	SEC	0	15	30	45
CITY STATE Florida	34275	1	0	0	6			31	Q	0	\bigcirc	0
PHONE/KEY CONTACT SOURCE PERMIT NUM 7770060-6	1BER	2	0	<u>O</u>	0		\leftarrow	32	0	0	0	0
PROCESS EQUIPMENT	OPERATING MODE	3	\mathcal{Q}			Ç	<u>_</u>	33		$\frac{2}{2}$	Q	Q
Drum Mix Asphalt Plant	* See Below OPERATING MODE	5	\mathcal{Q}	0			\leftarrow	34 35		0	$\frac{\mathcal{O}}{\mathcal{O}}$	
Baghouse System DESCRIBE EMISSION PT.	Continuous	6	X	$\frac{\mathcal{O}}{\mathcal{O}}$		1	\leftarrow	36	X	$\langle \langle \rangle \rangle$	$\frac{\mathcal{O}}{\mathcal{O}}$	
Rectangular exhaust stack exis	ting haghouse	7		0		15	\sim \vdash	37	\mathcal{L}	\mathcal{L}	<u> </u>	7
on 3 Nes end of bashouse DISTANCE TO EMISS. PT. DIRECTION TO EMIS.	S PT (DEGREES)	8	8	\mathcal{A}	5	1>		38	0		0	\mathcal{O}
START ~450' END ~450' START 333' (NO HEIGHT OF EMISS. PT. HEIGHT TO EMISS. PT.	WEND 333°(NW)	9	8	0		0	5	39	Ŏ	\bigcirc	0	Ŏ
START ~20' END ~20' START ~15'	END ~/5'	10	O	0	0	2	5	40	\bigcirc	0	0	15
VERTICAL ANGLE TO OBS. PT. DIRECTION TO OBS. START 230 END 230 START 2850 CV APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBS.	Dend 285 (W)	11	0	0	C	1	\sum_{i}	41	Q	0	0	
START ~ 300 'SW of emiss. Pr. to obsi	Wofemiso, pt	12	\bigcirc	0		10	\leftarrow	42		5	0	0
DESCRIBE EMISSIONS .	3 5 de 0	13	0	0	C		=	43	<u>(2</u>	\mathcal{Q}		
. 1	Ay Smoke Plume I detached I none	14	5	<u></u>			$\underset{\sim}{\swarrow}$	44	1	0	9	<u>چ</u>
DESCRIBE PLUME BACKGROUND		$\begin{vmatrix} 15 \\ 16 \end{vmatrix}$					$\leq +$	45 46	0	\mathcal{L}		
START Partly Cloudy sky END Clear BACKGROUND COLOR SKY CONDITIONS	- Blue sky	17					_	47		9	<u> </u>	
START BUE WHITCHOD Blue START SCHOOL WIND SPEED WIND DIRECTION	From IF	18	X			17		48		. X	\mathcal{L}	\overline{a}
AMBIENT TEMPERATURE WET BULB TEMP.		19	7	8		1 6		49	6	Ŏ	Ŏ	
START 54.2° F END 58.9° F SOURCE LAYOUT SKETCH	DRAW NORTH ARROW	20		C		S		50	\bigcirc		5	0
Strang	MAGNETIC X TRUE		Q	\bigcirc	Č	5	<u> </u>	51	\bigcirc		0	O
OBSERVATION	Some (1)	22	0	\mathcal{C}	40		\leftarrow	52	0		0	
	. \	23		5	10	14		53	5	Q	\bigcirc	
	103/www.	24					_	54		Q	()	5
Control	∏! <u>~20′</u> _{FT} □	$\frac{25}{26}$		\mathcal{L}	15	45	≼	55 56	\mathbb{R}	$ \mathcal{S} $	\mathcal{L}	\mathcal{S}
OBSERVER'S POSITION	~450'FT	$\frac{20}{27}$					\leftarrow	57	X		\mathcal{I}	\sim
(140-)	SIDE VIEW	28	8			1	_	58	1	8		$\overline{\Delta}$
	WITH O	29	Ŏ				< 	59	5	5	\mathcal{C}	0
SUN LOCATION LINE	SUN THE WIND	30	0	C	2		5	60	O	0	Ŏ	5
LAT: LONG:	DECLINATION	AVERA	GE OPAC	ITY (1.4	1%	HIGHE	ST SI	X MINUT	E INTER	YAL DISS	7
UETEST performed simultaneous	usle with Kun	OBSERV	ER'S NA	ME (PF	RINT)		etai	nhe	r L. I	3riles	, <u>, , , , , , , , , , , , , , , , , , </u>	
#2 of particulate test. No ob	OBSER	VER'S SI	GNATU			<u> </u>	/		DATE	_	<i></i>	
odors nor Figitives detected. +	See Process	OBSERVER'S SIGNATURE ORGANIZATION Central Florida Testing Laboratories, Inc.										
Weight and Flant Operating Parame OF this test.	tor southing		IED DV		Α					DATE	25-1	
of the Lock	an Doction											



VISIBLE EMISSIONS OBSERVATION FORM

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OT	HER:	FORM	NUMBER				I	PAGE /	OF /	<i>'</i>
COMPANY NAME Ajax Paving Industries, Inc. STREET ADDRESS CITY				VEO N	UMBER					
STREET ADDRESS CITY 1740 U.S. 27 South Mod	ore Haven		VATION :		(77		RT TIM	00 Any 1	END TIME	15 AM
MAILING ADDRESS 510 Gene Green Road		SEC	0	15	30	45	SEC			45
CITY Nokomis Florida	34275	1	0	Ó	0	0	31	00	0	O
PHONE/KEY CONTACT SOURCE PERMIT NUMBE 7770060-00	ER	2	0	0	0	0	32	00	<u>ک</u> (5	
PROCESS EQUIPMENT 0	PERATING MODE	3	0	0	0	\bigcirc	33		Ž Š	
	* See Below PERATING MODE	4	0	\bigcirc	5	0	34	00		
	Continuous	5	Q	$\frac{\mathcal{O}}{\mathbf{Q}}$	0	<u>Q</u>	35			0
Rectangular exhaust stack exit	ting baghouse	6	0	0	\mathcal{Q}	0	36			
On NW end of baghouse. DISTANCE TO EMISS. PT. PRIRECTION TO EMISS.		7 8	Q	$\frac{1}{2}$	\mathcal{O}	\mathcal{C}	37		$\frac{1}{2}$	$ \mathcal{L} $
START 2500' END ~500' START 3360(NNW)	END 3360 (NNW)	9	5				39			
HEIGHT OF EMISS PT. START ~ 20' END ~ 20' START ~ 15'	REL. TO OBSERVER	10				\times	40			
VERTICAL ANGLE TO OBS. PT. START / SOUND START 3/3 (NW) APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV	(DEGREES)	11	<u>a</u>			3	41		₹ <u>~</u>	
APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERVE START ~300 SW OF EMISS. PF. END ~200 SW	V. PT	12	5	0	0	5	42	00	50	3
DESCRIBE EMISSIONS		13	0	0	0	Ŏ	43	00	30	5
EMISSION COLOR . WATER DROPLET PLU		14	Ø	0	0	0	44	00	20	
START None END NONE DATTACHED DESCRIBE PLUME BACKGROUND	ETACHED NONE	15	0	0	5	0	45	00		0
START CLEAT Blue Sky END Clear BACKGROUND COLOR SKY CONDITIONS	Blue Sky	16	\mathcal{Q}	0	0		46	05		
START Blue END Blue START CLEAN WIND SPEED WIND DIRECTION		17		\bigcirc		0	47	00		
START 3-7mph end 3-7mph START NE AMBIENT TEMPERATURE WIND DIRECTION 1	END NE	18	0	\bigcirc	(2)	9	48	Q	$\frac{2}{2}$	5
START SOF END 63.66 F	PERCENT RH	19	5		0		49	\bigcirc		
SOURCE LAYOUT SKETCH	DRAW NORTH ARROW MAGNETIC X TRUE			$\frac{1}{2}$	2	2	50	9		
31.00-1	muse /	22	0	7	X		52	36	$\langle \rangle$	
POINT		23	8	6		\sim	53	37	515	
	10 1 / Six 10 /	24	6	7	\sim	$\overline{\wedge}$	54	00	$\overline{\mathbb{Z}}$	3
	1// 1/2	25	5	O	Ŏ	0	55	3	515	
	~20' FT	26	0	0	0	0	56	3	2 (2	
OBSERVER'S POSITION	SIDE VIEW	27	0	\bigcirc	5		57	6		
To the second se	STACK WITH	28	Q	0	0	Q	58		35	
<	SUN +	29	0	0	Q	\bigcirc	59	\bigcirc		
SUN LOCATION LINE	wind	30		<u> </u>	\bigcirc		60			
LAT: LONG:	DECLINATION	AVERA	GE OPAC	(2,4	O HIG	HEST SI	X MINUTE IN	DIG 7	5
VE test performed simultaneously wit	h Run #3	OBSERV	ER'S NA	ME (PRI	C C	hriste	ophe	r L. Bri	ley	
of particulate test. No objections		OBSER	VER'S ST	GNATUR	E /	J,	Li	DAT		000
nor Figitives detected. *= See Pro			entr		7	Tes	ting	Laborat	tories,	
and Flant Operating Parameter section		CERTIF	IED BY	E.T.A	۱ ٦	amp	а	DAT	B-25-1	999



Manifest #: 238587

CERTIFICATE OF ANALYSIS

TO: AJAX PAVING Plant - 4

MOORE HAVEN, FLORIDA

FROM: HOWCO ENVIRONMENTAL SERVICES 843 43RD ST. SOUTH ST. PETERSBURG, FL 33711

PHONE:

1-800-435-8467

DISPATCH: 1-800-872-6715

SAMPLE TYPE: FUEL OIL #5

BATCH

: 1339, Tank 121

DATE

: February 9, 2000

PARAMETER	CONCENTRATION	UNIT	TEST METHOD
ARSENIC	< 1	PPM	EPA SW-846(3050-7061)
CADMIUM	< 2.0	PPM	EPA SW-846(3040-7130)
CHROMIUM	< 5.0	PPM	EPA SW-846(3040-7190)
LEAD	< 100	PPM	EPA SW-846(3040-7420)
SULFUR	0.43	%	ASTM D4294
FLASHPOINT (PMCC)	> 140	°F	ASTM D93
TOTAL HALOGENS	880	P PM	EPA SW-846 (9075)
SEDIMENT	1.4	%	ASTM D96
WATER	0.6	%	ASTM D95
API GRAVITY	28.4	60°F	ASTM D287
HEAT OF COMBUSTION	140K	BTU/GAL.	ASTM D240
SPECIFIC GRAVITY	0.884	60°F	ASTM D1298
PCB'S	< 2	PPM	EPA SW-846 (8080)

All analysis were performed in accordance with EPA, ASTM or other FDER approved procedures.

Quality Assurance Officer REMARKS: 7.35 lbs/gallon

3701 Central Avenue - St. Petersburg, FL 33713 - Tel. 727-327-8467 Fax: 727-321-6213

Operations: Tampa Bay - Ocala - Ft. Myers - 24-Hour Emergency Access 1-800-435-8467



(800)248-CFTL

(727)572-9797

AJAX PAVING IND. - Plant No.4

Portable BCE Drum Mix Asphalt Plant Initial Emissions Compliance Test Determination Of Sulfur Dioxide Emissions

	Run	Time		Total Fu	el Consumed (gal)
Date	No.	Start	Stop	Start	Stop
02/10/00	1	7:35 a.m.	8:50 a.m.	0	559.4
02/10/00	2	9:20 a.m.	` 10:35 a.m.	0	550.7
02/10/00	3	10:55 a.m.	12:05 p.m.	0	515.9

EUEL CONSUMPTION

			Total fuel consur	ned
		F <i>c</i> ≈	Burner operation	time
	Run No.1	Fc =	559.4 gallons	= 447.5 gal/hr
		10=	1 hour 15 minutes	= 447.5 gai/iii
	Run No.2	F _C =	550.7 gallons	- = 440.6 gal/hr
			1 hour 15 minutes	_ 110.0 gam
	Run No.3	F _C =	515.9 gallons	- = 442.2 gal/hr
		1 C =	1 hour 10 minutes	= 442.2 gam
		Maximum Sulf	ur Dioxide Emissions	
500	0.004 3 lb	-5/lb-fuel(7.350 lb-fuel/g	al)(64 gm/gm-mole 502)	
E502 =		32 gm/gm-ma	[Q fuel]	
E502 = ().0632 lb-9	o/gal [Q fuel]		
Run No.1	E502 = 0	0.0632 lb-5/gal (447.5 ga	al/hr) = 28.29 lb/hr	
Run No.2	E502 = 0	0.0632 lb -5/gal (440.6	gal/hr) = 27.85 lb/hr	
Run No.3	_			
	E502 = 0	0.0632 lb-5/gal (442.2 ga	al/hr) = 27.95 lb/hr	



(800)248-CFTL

(727)572-9797

Ajax Paving Industries, Inc. - Plant No.4

PORTABLE BCE DRUM MIX ASPHALT PLANT INITIAL EMISSIONS COMPLIANCE TEST DETERMINATION OF PROCESS WEIGHT

	Run	Т	ime	Total Asph	alt Produced (tons)
Date	No.	Start	Stop	Start ·	Stop
02/10/00	1	7:35 a.m.		0.0	***
			8:50 a.m.		243.2
02/10/00	2	9:20 a.m.		0.0	. 10.10
					•
		1	1 0:35 a.m.		240.6
02/10/00	3	10:55 a.m.		0.0	
		<u> </u>	12:05 p.m.		225.3

PROCESS WEIGHT

Pw = Total Tons Produced

Total Production Time

Run No.1	Pw =	(243.2 - 0.0) ton	= 194.6 ton/hr
	PW =	1 hour 15 minutes	= 194.0 ton/iir
Run No.2	0	(240.6 - 0.0) ton	100 5 1 / -
	Pw = -	1 hour 15 minutes	= 192.5 ton/hr
Run No.3	Pw =	(225.3 - 0.0) ton	- 102 1 ton/by
	<i>PW = -</i>	1 hour 10 minutes	— = 193.1 ton/hr

I certify that the above statements are true to the best of my & belief.

Mr. Robert K. Ray, Plant Operations Supervisor

		CDIVITION THOIC	IDA IDGIII	MIDUIGA	TOIGLO, III C.		
PLANT	- Ajax Paving	ENGINEERS: BB,CB,CC	PROBE LENGTH	6'	PROBE HEATER TEMP: 2	50°F	LEAK TEST
DATE:	2-10-2000	AMBIENT TEMP: 1398 F	NOZZLE SIZE: _	1/4"	ASSUMED MOISTURE:	38%	BEFORE / 1/00/3
UNIT:	Portable Plant	BAR. PRESSURE: 30.07	TYPE PITOT TUE	n 97	C FACTOR NOMOGRAPH:	כיש ו בעע	AFTER: .003@/S
RUN:	- page -	STATIC PRESSURE:	PITOT TUBE Cp:	0.00	CALCULATION FACTORS:	[1-1.52	P17073. A = 9. B = 9.
							

	, ,											$D=\emptyset$
POINT	TIME	△ P (in. H ₂ O)	Δ H (in. H ₂ O)		DRY GAS METER (cu. ft.)	PUMP VACUME (" Hg)	STACK TEMP (°F)	METE INLET (°F)	OUTLET (°F)	FILTER TEMP (°F)	IMPINGER TEMP (°F)	
	INIŢIAĻ	. :		A STATE OF STATE	748,470		The state of the state of			State State		e Vertical in the second
1	0-2(740)	1.00	1.18		749.70	4	279	56	56	260	36	
2	2-4	.90	1.06		750-93	5.5	281	56	56	265	38	
3	4-6	1.05	1.22		152.22		284	56	56	262	38 38 38 38 39 39	
4	6-8	1.01	1.20		753,55	6	295	58	57	262 263	38	
5	8-10/750		1.18		754.800	6	794	59	58	261	38	
6	0-4751	.92	1.08		755.90	6	28/	59	57	263	38	
7	2-4	.90	1.06		757-13	6	281 282 390 291	60	58	260	39	
8	4-6	1.06	1.24		758.43	6.5	290	6/	59	261	37	
9	6-8	1.10	1,31		759.73	7	29/	62	59	250	39	
10	8-10(801)	1.10	1.31		761.823	7.5	292	65	60	256	40	
	0-2/802	1.90	.96		762.14	6	292	63,	60	247	40	
	2-4	. 82	.99		763.32	6.5	295	64	61	247	40	
	4-6	1.00	1-18		764.56	7	295	65	62	248	4/	
	6-8	1.00	1.18		765.83	-/	294	66	63	265	42	
	8-10(812)	.80	.96		767.022		292	67	63	260	41	
16												
17												
18												_
19						_		<u> </u>				
20								1				
21							<u> </u>					
22		-									<u>-</u>	
23												
		L	<u> </u>		<u> </u>					L		

CENTRAL FLORIDA TESTING LABORATORIES, INC.

ENGINEERS: DO C PROBE LENGTH: PROBE HEATER TEMP: 250°F LEAK TEST

AMBIENT TEMP: 39°F NOZZLE SIZE: 141° ASSUMED MOISTURE: 38°70 BEFORE

THOUGH PLANT BAR. PRESSURE: 30.09 TYPE PITOT TUBE: 5 C FACTOR NOMOGRAPH: AFTER: 1 DISC CALCULATION FACTORS: P-1.52

				· _ · · _	DRY GAS	PUMP	STACK	МЕТЕ	R TEMP	FILTER	IMPINGER	
		ΔP	ΔH		METER	VACUME	TEMP	INLET	OUTLET	TEMP	TEMP	
POINT	TIME	(in. H ₂ O)	(in. H ₂ O)		(cu. ft.)	(" Hg)	(°F)	(°F)	(°F)	(°F)	(°F)	
	INITIAL				7/07-172					and the second		
1	0-2(814)		1.00	·····	769-17	6.5	293	66	64	267	41	
2	2-4	.85	1.03		769.37	7	294	68	65	263	41	
3	46	.80	.96		770.53	6.5	292	69	66	252	40	
4	6-8.	.82	.99		771.72	7	292	69	66	260	39	
5	8-10/813	1.80	.96	•	172.906	6.5	296	70	67	248	39	
6	0-2(825)	.80	.96		773.96	6,5	295	70	67	260	40	
7	24	.90	1.06		775.20	6.5	294	70	67	265	40	
	4-6	.90	1.06		776.37	6.5	296	70	68	260	40	
	6-8	.82	.99		777.53	6.5	293	71	68	264	4/	
	8-10835		1.03		778.729	7	293	72	69	259	4/	
	0-2(834)	.81	.98		779.80	6.5	296 293	72	69	248	40	
	2-4	. 85	1.03	·	780.96		293	73	70	244	40	
	4-6	.85	1.03		782.17	7_	290	73	70	248	40	
	6.8	.80	.79		783,33	6.5	292	73	70	200	4/2	
	8-14846)	.80	.96		784.522	6.5	292	74	10	248	42	
16	· · · · · · · · · · · · · · · · · · ·											
17												
18												<u> </u>
19						· · · · · · · · · · · · · · · · · · ·		<u> </u>				
20												
21				<u> </u>	<u> </u>							
22											<u></u>	
23 24								<u> </u>				
44												

PROBE LENGTH: Yull

PROBE HEATER TEMP: 250 F
ASSUMED MOISTURE: 3870

10/0 LEAK TEST 007@16" BEFORE 007@15"

T: PORODE PONE BAR. PRESSURE: 20.00

TYPE PITOT TUBE: 0.8

ALCULATION FACTORS: PP= 1,52

					DRY GAS	PUMP	STACK		R TEMP	FILTER	IMPINGER	
		Δ Ρ	ΔH		METER	VACUME	TEMP	INLET (°F)	OUTLET (°F)	TEMP (°F)	TEMP (°F)	
POINT	TIME	(in. H _Z O)	(in. H ₂ O)		(cu. ft.)	(" Hg)	(°F)	(1)	(r)	(r)		alia da sa
	INITIAL				784.827							
1	s-Z(925)	1.05	1.22		186.10	6.5	284	66	66	25/	5/	
2	24	1.06	1.24		787.43	6.5	287	66	66	248	48	
3	4-6	1.00	1.18		788.79	6	286	61	66	249	42	
4	68	1-00	1-18		790.07	6	284	68	66	245	39	
5	8-10 935		1.18		791.367	6	289	68	66	255	39	
6	0-2(936)	.92	1.08		792.44	5.5	285	99	61	260	39	
7	2-4	1.05	1,22		793.76	6	288	70	61	257	40	
8	4-6	1.05	1.22		795.03	6	292	70	68	264	4/	
9	6-8	1.06	1.24		796.46	6.5	$\boldsymbol{\alpha}$	71	68	249	42	
10	8-10/946	11.10	1.31		797.693		295	72	10	260	43	
11	0-2(947)	.80	.96		198.83	5.5	290	73	70	262	44	
12	24	.82	.99	,	799.98	5,5	289	73	70	260	42	
13	4.6	1.00	1.18	######################################	801.26	6	288	74	7/	258	40	
14	6-8	1.00	1.18		802.53	6	287	75	72	260	38 38	
15	8-10(951)	.82	.99		803.750	6	286	76	73	255	38	
16									·			
17												
18												-
19												
20												
21												
22												
23					,							
24												

~ ^	CETATIVET LEGIC	DW TESTING TWDOKW	I ORIES, IIVC.
PLANT: Ajax Paving	ENGINEERS: BBCBCC	PROBE LENGTH: 6'	PROBE HEATER TEMP: 250F LEAK TEST
DATE: 2-10-2000	AMBIENT TEMP: 450F	NOZZLE SIZE:	ASSUMED MOISTURE: 3890 BEFORE
UNIT: PORTABLE PLANT	BAR. PRESSURE: 30.06	TYPE PITOT TUBE:	C FACTOR NOMOGRAPH: DP=1.52
RUN: 2 DOGE 2	STATIC PRESSURE:	PITOT TUBE Cp: U-82	CALCULATION FACTORS: PF=1.52

POINT	TIME	∆ P (in. H ₂ O)	∆ H (in. H ₂ O)		DRY GAS METER (cu. ft.)	PUMP VACUME (* Hg)	STACK TEMP (°F)	METE INLET (°F)	R TEMP OUTLET (°F)	FILTER TEMP (°F)	IMPINGER TEMP (°F)	
	INITIAL		99		803.750 804.86		285		73	050	40	
	0-4958, 2-4	.85	1.03		204.00	5	707	19	13	36	70	
3	4-6	.87	1.05		207 21	<u> </u>	292	19	72	2115	44	
4	68	.85	1.03		801.26	6	292	1/8	74	321	40	
5	8-10/00	1.85	1.03		809.700	8.5	294	49	76	250	40	
	0-2/1009		.96	***************************************	810.83	5.5	296	クタ	76	263	39	
7	2-4	85	1.03		812.00	6		20	77	249	40	
8	4-6	.90	1.06		813.25	6	296	80	77	246	41	
9	6-8	.90	1.06		814.47	6	297	80	77	245	43	
10	8-10/1019	1.86	1.04		815.704	6	300	81	78	260	40	
11	0-2(1020	1.83	1.00		816.86	6.5	298	81	78	252	39	
	24	.83	1,00		818.02	6	298	82	78	261	40	
	4.6	.85	1-03		819.23	5,5	296 296 297	82	78	262	41	
	6-8	.80	.96		880.40	5,5	296	83	-19	260	4/	
	8-10(1030	1,83	1.00		821.620		297	83	19	252	42	
16												
17		*							****			
18			<u> </u>	·								
19						MALCO						
20									-			
21						****						
22		· · · · · · · · · · · · · · · · · · ·							w			
23												
24												

CENTRAL FLORIDA TESTING LABORATORIES, INC.

STATIC PRESSURE:

CENTRAL FLORIDA TESTING LABORATORIES, INC.

PROBE LENGTH:

PROBE LENGTH:

PROBE HEATER TEMP: 250F

ASSUMED MOISTURE: 3690

C FACTOR NOMOGRAPH:

STATIC PRESSURE:

PITOT TUBE Cp: 0.82

CALCULATION FACTORS: P=1.52

		ΔP	ΔН		DRY GAS METER	PUMP VACUME	STACK TEMP	METE	R TEMP OUTLET	FILTER TEMP	IMPINGER TEMP	
POINT	TIME	(in, H ₂ O)			(cu. ft.)	(" Hg)	(°F)	(°F)	(°F)	(°F)	(°F)	
	INITIAL			之传》《為	821.885							
1	0-2058)	1.06	1.24		823.20	6.5	286	76	76	246	42	
2	24	1.06	1,24		824,54	6.5	286	76	76	251	42	
3	4-6	1.00	1.18		825.87	6	284	77	76	244	7/	·
4	68,	1.0%	1,20		827.18	6.5	286	78	76	246	40	
5	8-10/108	1-00	1-18		828.506	6_	287	79	7//	248	40	
	0-2(109)	.90	1.06		829.68	5.5	285	79	17	261	40	
	2-4	1.05	1.22		830.90	6.5	288	80	1	259	38	
	4-6	1.0/	1.26	<u>-</u>	832.19	7	286	AO	1/	261	38	
	6-8	1.06	1.24		833,54	4	スプ (8/	18	265	39	*
	8-10/119		1.24		834,885		293	82	19	257	37	
	0-4(1120)	. 82	.99		836.00	9	$ \alpha 7 \rangle$	Xa	-79	200	27	
	24	.82	.99		837.21	9	293		80	1276	27 40	
	4.6	1.02			700 7 I			83	80	260		
14	6-8	1.00	1.18		839.77		296	34	80		42	<u> </u>
	8-16/130)	.80	.97		891.052	6.5	295	85	81	257	45	
16												
17												
18											<u> </u>	
19					······							
20												·
22		· · · · · · · · · · · · · · · · · · ·										
23					<u>-</u>							

CENTRAL FLORIDA TESTING LABORATORIES, INC. ENGINEERS: BB, CB, CC PROBE LENGTH: LEAK TEST DATE: 02-10-8000 AMBIENT TEMP: 53°F NOZZLE SIZE: 12
UNIT: POYTONE PLANT BAR PRESSURE: 30.02 TYPE PITOT TUBE: 5 BEFORE ____ BAR. PRESSURE: DUOL TYPE PITOT TUBE: C FACTOR NOMOGRAPH: AFTER:

STATIC PRESSURE: PITOT TUBE Cp: 0.82 CALCULATION FACTORS: P=1.52 METER TEMP FILTER **IMPINGER** DRY GAS **PUMP** STACK INLET OUTLET **TEMP** TEMP ΔΡ TEMP ΔΗ METER VACUME (°F) (°F) (°F) POINT TIME $|(in. H_2O)|(in. H_2O)|$ (°F) (°F) (cu. ft.) (" Hg) INITIAL 2 8 9 8-10(1151) 10 11 12 13 14 15 16 17 18 19 20 21 22 23

24



AJAX Paving Industries, Inc. Portable BCE Drum Mix Asphalt Plant Initial Emissions Compliance Test Clarification of Raw Data Sheet Lab No. 130463

(727)572-9797	(800)248-CFTL

Run No. 1	1_	2	3_	4	5	TOTAL
<u>Imp. Wt:</u> Final Initial	790.2 550.0 240.2	700.0 <u>561.7</u> 138.3	472.7 451.9 20.8	471.4 464.6 6.8	680.0 670.0 10.0	<u>416.1</u> gm
<u>Particulate</u>		Filter Pape	er P	robe Wasl	<u>h</u>	
Final Initial		0.5776 <u>0.5621</u> 0.0155		114.8633 114.8462 0.0171		<u>0.0326</u> gm
Run No. 2	1_	2	3	4	5	TOTAL
<u>Imp. Wt:</u> Final Initial	809.6 552.1 257.5	672.6 561.5 111.1	480.7 451.7 28.3	470.7 464.4 6.3	686.3 676.2 14.1	<u>417.3</u> gm
<u>Particulate</u>		Filter Pape	er <u>P</u>	robe Wasl	<u>1</u>	
Final Initial		0.5740 0.5591 0.0149		08.9368 08.9194 0.0174		<u>0.0323</u> gm
Run No. 3	1_	2	3	4	5	TOTAL
<u>Imp. Wt:</u> Final Initial	801.8 <u>551.7</u> 250.1	694.2 562.0 132.2	478.1 451.7 26.4	464.7 464.2 0.5	690.8 680.0 10.8	<u>420.0</u> gm
<u>Particulate</u>		Filter Pape	er P	robe Wasl	<u>n</u>	
Final Initial		0.5759 0.5606 0.0153	<u>10</u>	9.2703 9.2526 0.0177		<u>0.0330</u> gm



MOISTURE COLLECTED

LOCATION: Ajax Paving - Plant

DATE: 2-10-2000

RUN NO. 1

IMPINGER NO.

1 2

3

4

5

FINAL WEIGHT

INITIAL WEIGHT

DIFFERENCE

790.Z 100.0 472.7 471.4 680.0 550.0 561.7 451.9 464.6 670.0 240.Z 138.3 20.8 6.8 10.0

TOTAL 416./

RUN NO. 2

IMPINGER NO.

1

2

3

4

5

FINAL WEIGHT

INITIAL WEIGHT

DIFFERENCE

809.6	672.6	480.0	470.7	686.3
552.1	54.5	451.7	464.9	676.Z
257.5		28.3		14.1

TOTAL 4/7.3

RUN NO. 3

IMPINGER NO.

1

2

3

4

5

FINAL WEIGHT

INITIAL WEIGHT

DIFFERENCE

801.8 194.2 478.1 464.7 690.8 551.7 562.0 451.7 464.2 686.0 250.1 132.2 26.4 0.5 10.8

Р | то

TOTAL 4/30.0

PARTICULATE MATTER COLLECTED

PLANT Ajax Paving	PORTABLE _UNIT TESTED Drum	Mix Plant	DATE 02-	10-2000	
FILTER PAPER FILTER NO. 1st Weighing 2nd Weighing 3rd Weighing 4th Weighing Final Weight Tare Weight 0.0155	2/18 7:30 am 7:00 am 1 8:30 am 		UME 200 114.86 114.869 114.869 114.869 ight 114.869	640 2/18 7 10 2/19 7:31 39 2/21 9:00	an
2nd Weighing	1 118 7:33 a.m. 119 7:15 a.m. 121 8:34 a.m. 32.3	BEAI VOLI 1st Weighing 2nd Weighing 3rd Weighing 4th Weighing Residue Weight_ Probe Wash We Tare Weight_	UME <u>200</u> 108.937 108.937 108.939 ight 108.9	<u>376 alis</u> 7. 5 alis 7.3 75 alai 9.3	:55a Yan OYan
FILTER PAPER FILTER NO. 1st Weighing 0.5758 av. 3rd Weighing 0.5759 av. 4th Weighing Final Weight 0.5759 Tare Weight 0.5606	2/18 1:37am 19 7:20am 1/2/ 8:38am		109.27 109.27 109.27	10 4/18 1:3 10 2/19 7:3 10 2/21 9:0	s gark Tar g Tar
FILTER & ACETONE BLANKS FILTER PAPER FILTER NO. 104 1st Weighing 0.5381 & 2nd Weighing 0.5381 & 4th Weighing 0.5381 Tare Weight 0.5381 0.0000	2 <u>118</u> 7:40an 1919 7:25an 121 8:42an		99.6. 99.6.	214 2/19 7:	:020 0 :41 <i>0</i> :400
Weighed By:		Verified By:	D. 100/1	VR.	

													Bagho	use	
				Mix	Virgin	Liquid		Production	Total T	ons	Fuel	Oil	Pressure	Inlet	Type
	Run	Tir	ne	Temp.	Agg.	Asphalt	RAP	Rate	Produ	ced	Consu	mption	Drop	Temp.	Asphalt
Date	No.	Start	Stop	(°F)	(tph)	(tph)	(tph)	(tph)	Start	Stop	Start	Stop	(inches H2O)	(°F)	Produced
02/10/00	1	7:35 a.m.		328	176	15.9	0	192	0.0		0.0		4.8	338	FDOT
		7:55 a.m.		325	179	16.0	0	195					4.8	333	S-3
		8:15 a.m.		327	179	16.2	0	195					4.8	337	virgin
		8:35 a.m.		322	178	16.2	0	194					4.9	340	
			8:50 a.m.	325	180	16.4	. 0	196	L	243.2	_	→ 559.4	4.9	335	
02/10/00	2	9:20 a.m.		328	173	16.0	0	189	0.0		0.0		4.9	324	FDOT
		9:40 a.m.		325	176	16.1	0	192					` 4.8	335	S-3
		10:00 a.m.		327	178	16.3	0	194					4.8	341	virgin
		10:20 a.m.		322	178	16.3	0	194					4.8	338	
			10:35 a.m.	325	177	16.3	0	193		240.6	<u> </u>	→ 550.7	4.8	338	
02/10/00	3	10:55 a.m.		325	180	16.5	0	196	0.0		0.0		4.7	332	FDOT
		11:15 a.m.		325	176	16.2	0	192					4.8	335	S-3
		11:35 a.m.		324	177	16.2	0	193					4.8	335	virgin
		11:55 a.m.		324	176	16.4	0	192					4.8	332	
			12:05 p.m.	324	176	16.2	0	192	<u> </u>	225.3		→ 515.9	4.8	337	

AJAX PAVING, IND. - Plant No.4

Portable BCE Drum Mix Asphalt Plant Initial Emissions Compliance Test Plant Operation Parameters

V. SUPPLEMENTAL INFORMATION

FUGITIVE EMISSION CONTROL

Precautions to control and prevent fugitive emissions will be accomplished at the sites which this asphalt plant will be located in several manners. Any stockpiles at this location or any other location will be kept dampened by sprinkler systems or by water truck to control airborne emissions by prevailing winds. All traffic areas will have an enforced and instructed 5 mph speed limit as well as kept damp by water truck or sprinkler system on an as needed basis to control fugitive emissions.