ANGELO'S RECYCLED MATERIALS, INC.

Portable Crushing Plant No.3

Revision to FDEP Construction Permit

FDEP Construction Permit No. 7770179-001-AC

SEPTEMBER - 1999

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: **ANGELO'S RECYCLED MATERIALS, INC.**	
2. Site Name: **ANGELO'S RECYCLED MATERIALS, INC. - CRUSHING UNIT NO. 3**	
3. Facility Identification Number: [ ] Unknown	
4. Facility Location: Street Address or Other Locator: **1440 South Perimeter Road** City: **West Palm Beach** County: **Palm Beach** Zip Code: **33406**	
5. Relocatable Facility? [X] Yes [ ] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

Name and Title of Application Contact: **Mr. Bernard A. Ball, Jr., Environmental Engineer**	
2. Application Contact Mailing Address: Organization/Firm: **Central Florida Testing Laboratories, Inc.** Street Address: **12625 – 40th Street North** City: **Clearwater** State: **Florida** Zip Code: **33762**	
3. Application Contact Telephone Numbers: Telephone: **(727) 572-9797** Fax: **(727) 299-0023**	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	

Purpose of Application

Air Operation Permit Application

This 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.

[ ] Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number:_____

[X] Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number: **7770179-001-AC.**

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:_____

Air Construction Permit Application

This 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.

[X] Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative

1. Name and Title of Owner/Authorized Representative:
   Mr. Dennis Price, Environmental Manager
2. Owner/Authorized Representative Mailing Address:
   Organization/Firm: **Angelo's Recycled Materials, Inc.**
   Street Address: **Post Office Box 1493**
   City: **Largo** State: **Florida** Zip Code: **33779**
3. Owner/Authorized Representative Telephone Numbers:
   Telephone: **(727) 581-1544** Fax: **(727) 586-5676**
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.*

   Dennis Price 9/10/99

   Signature Date

* 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 or to revise or amend construction permit (check here [X], 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 or more newly constructed or modified emissions units (check here [ ], 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

5-10-99
Date

(seal)

- Attach any exception to certification statement.
- *With the exception of manufacturers efficiency and production guarantees.*

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	Cedarapids Inc. – Raw Material Receiving Hopper / Vibrating Grizzly Feeder System – used to feed uncrushed material to crusher.	ACM2	N/A
002	Bohringer, Inc. Model #RC14 Impact Crushing Unit and Discharge Pan – where crushed material exits crushing unit and falls onto conveyor belt	ACM2	
003	Cedarapids/Simplicity – Vibrating Screening Deck (7' x 20') – used to separate crushed material into a desired size.	ACM2	
004	Crushed Material Feed Conveying System (4' x 30') , used to convey crushed material from crusher to magnet to screen conveyor	ACM2	
005	Pre-Screening Conveying System (4' x 50') – used to convey crushed material from magnet drop point to vibrating screener	ACM2	
006	Radial Stacker Belt No.1 (4'x 80') – drop point were material falls from belt to crushed material stockpile	ACM2	
007	Radial Stacker Belt No.2 (4'x 60') – drop point were material falls from belt to crushed material stockpile	ACM2	
008	Emissions from 325 H.P. Caterpillar, Model # 3412 (545kW) Diesel Generator – fired on No.2 virgin diesel fuel – used to power all equipment employed by this crushing – aggregate processing unit.	ACM2	N/A
009	Fugitive emissions from paved and unpaved roads.		
010	Fugitives from on site storage piles		

Application Processing Fee

Check one: [**X**] Attached - Amount: **$250.00** [ ] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations: **This project consists of the amendment of FDEP State Wide Construction Permit No. 7770179-001-AC for a portable Aggregate Crushing & Processing Plant owned and operated by Angelo's Recycled Materials, Inc. This crushing unit was located at the Air Force Demolition and Debris Landfill Site at Cape Canaveral, but due to governing factors Angelo's Recycled Materials had to remove the crushing unit from the above mentioned site and store it in Jasper, Florida. Angelo's Recycled Materials has intentions to move this crusher, minus some of the originally permitted parts which were sent back to their office in Michigan, to a site at 1440 Perimeter Road, West Palm Beach, West Palm Beach County, Florida. This crushing unit will serve the sole purpose of crushing and processing and reclaimed asphalt concrete that is recycled from the road, buildings, etc. that will be reused in the building or construction industry.** **This facility is a natural non-Title V facility and will comply with all FDEP Rules and Regulations.**
2. Projected or Actual Date of Commencement of Construction: **NA (existing source)**
3. Projected Date of Completion of Construction: **NA (already constructed)**

Application Comment

This project consists of the amendment of FDEP State Wide Construction Permit No. 7770179-001-AC for a portable Aggregate Crushing & Processing Plant owned and operated by Angelo's Recycled Materials, Inc. This crushing unit was located at the Air Force Demolition and Debris Landfill Site at Cape Canaveral, but due to governing factors Angelo's Recycled Materials had to remove the crushing unit from the above mentioned site and store it in Jasper, Florida. Angelo's Recycled Materials has intentions to move this crusher, minus some of the originally permitted parts which were sent back to their office in Michigan, to a site at 1440 Perimeter Road, West Palm Beach, West Palm Beach County, Florida. This crushing unit will serve the sole purpose of crushing and processing and reclaimed asphalt concrete that is recycled from the road, buildings, etc. that will be reused in the building or construction industry.

This facility is a natural non-Title V facility and will comply with all FDEP Rules and Regulations.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: **(Portable Unit – Location at present time)**
   Zone: **17** East (km): **592.1** North (km): **2951.4**

2. Facility Latitude/Longitude:
   Latitude (DD/MM/SS): **26°40'55" N** Longitude (DD/MM/SS): **80°04'27" W**

3. Governmental Facility Code:	4. Facility Status Code:	5. Facility Major Group SIC Code:	6. Facility SIC(s):
O	**ACTIVE**	**14**	**1422**

7. Facility Comment (limit to 500 characters):

This project consists of the amendment of FDEP State Wide Construction Permit No. 7770179-001-AC for a portable Aggregate Crushing & Processing Plant owned and operated by Angelo's Recycled Materials, Inc. This crushing unit was located at the Air Force Demolition and Debris Landfill Site at Cape Canaveral, but due to governing factors Angelo's Recycled Materials had to remove the crushing unit from the above mentioned site and store it in Jasper, Florida. Angelo's Recycled Materials has intentions to move this crusher, minus some of the originally permitted parts which were sent back to their office in Michigan, to a site at 1440 Perimeter Road, West Palm Beach, West Palm Beach County, Florida. This crushing unit will serve the sole purpose of crushing and processing and reclaimed asphalt concrete that is recycled from the road, buildings, etc. that will be reused in the building or construction industry.

This facility is a natural non-Title V facility and will comply with all FDEP Rules and Regulations.

Facility Contact

1. Name and Title of Facility Contact:
   Mr. Dennis Price, Environmental Manager

2. Facility Contact Mailing Address:
   Organization/Firm: **Angelo's Recycled Products, Inc.**
   Street Address: **Post Office Box 1493**
   City: **Largo** State: **Florida** Zip Code: **33779**

3. Facility Contact Telephone Numbers:
   Telephone: **(904) 527-9671** Fax: **(727) 586-5676**

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source?	[X] Unknown
2. [X] Synthetic Non-Title V Source?	
3. [X] Synthetic Minor Source of Pollutants Other than HAPs?	
4. [X] Synthetic Minor Source of HAPs?	
5. [X] One or More Emissions Units Subject to NSPS?	
6. [ ] One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?	
7. Facility Regulatory Classifications Comment (limit to 200 characters): **Natural Non-Title V Source**	

Rule Applicability Analysis

This facility is subject to the rules and provisions of 40 CFR 60, subpart 000.

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
PM10	**SM**	**NA**	**NA**	**RULE**	**<10% opacity from drop points, storage**
PM	**SM**	**NA**	**NA**	**RULE**	**Piles, <15% from crusher**
SO2	**SM**	**NA**	**NA**	**RULE**	**Emissions from diesel generator**
NOx	**SM**	**NA**	**NA**	**RULE**	**Subject to opacity limitations only**
CO	**SM**	**NA**	**NA**	**RULE**	**FAC 62-296.310**
TOC	**SM**	**NA**	**NA**	**RULE**	**"**

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: [X] Attached, Document ID:___I____ [ ] Not Applicable [ ] Waiver Requested
2. Facility Plot Plan: [X] Attached, Document ID:__II_____[ ] Not Applicable [ ] Waiver Requested
3. Process Flow Diagram(s): [X] Attached, Document ID:__III____[ ] Not Applicable [ ] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [X] Attached, Document ID:__IV____[ ] Not Applicable [ ] Waiver Requested
5. Supplemental Information for Construction Permit Application: [X] Attached, Document ID:__VII___ [ ] Not Applicable
6. Supplemental Requirements Comment:

EMISSIONS ID. NO. 001

Cedarapids/Simplicity – Grizzly Feeder

III. EMISSIONS UNIT INFORMATION

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 Addressed in This Section: (Check one)

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

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

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

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Cedarapids/Simplicity Inc. – Raw Material Receiving Hopper / Vibrating Grizzly Feeder System – used to feed uncrushed material to crusher.

3. Emissions Unit Identification Number:
ID: **001**
[ ] No ID
[ ] ID Unknown

3. Emissions Unit Status Code:	4. Initial Startup Date:	5. Emissions Unit Major Group SIC Code:
ACTIVE	**UNKNOWN**	**14**

6. Emissions Unit Comment: (Limit to 500 Characters):

THIS AGGREGATE PROCESSING UNIT WILL CRUSH AND SCREEN RECLAIMED ASPHALT AND CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY EMISSIONS OCCUR THE MATERIAL INTRODUCED TO THE GRIZZLY FEEDER WILL BE SPRAYED WITH WATER IN IT'S STOCKPILE AND AT THE FEEDER, AS TO CONTROL ANY EMISSIONS THAT MAY BE GENERATED.

Emissions Unit Information Section __1___ of __10___
Receiving Hopper – Vibrating Grizzly Feeder
Emissions Unit Control Equipment

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

ANY EMISSIONS THAT MAY BE GENERATED BY DUMPING OF UNCRUSHED MATERIAL INTO RECEIVING HOPPER AND VIBRATION OF MATERIAL BY GRIZZLY FEEDER INTO CRUSHER ARE CONTROLLED AT THIS FACILITY BY DAMPENING MATERIAL IN IT'S STOCKPILES AND IN THE FEEDER AS NEEDED AS TO CONTROL GENERATION OF FUGITIVES

2. Control Device or Method Code(s): **061,099**

Emissions Unit Details

1. Package Unit: **RAW MATERIAL RECEIVING HOPPER / VIBRATING GRIZZLY FEEDER SYSTEM**
   Manufacturer: **CEDARAPIDS/SIMPLICITY, INC.** Model Number: **NA**
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 Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE**
4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE**
5. Requested Maximum Operating Schedule:
   10 hours/day **6** days/week
   52 weeks/year **3120** hours/year
7. Operating Capacity/Schedule Comment (limit to 200 characters):

Dampened, uncrushed reclaimed asphalt material is fed into the material receiving hopper and grizzly feeder of the plant where any fugitive emissions generated are controlled by dampening of materials in the stockpile and in the grizzly feeder / receiving to control any emissions that may be generated.

Emissions Unit Information Section __1___ of __10___
Receiving Hopper – Vibrating Grizzly Feeder

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **001 (Grizzly Feeder)**	2. Emission Point Type Code: **4**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NONE**		
3. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NONE**		
4. Discharge Type Code: **F**	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: **~15** FEET	
13. Emission Point UTM Coordinates: **(Relocatable source figures below are location now)** Zone: **17** East (km): **592.1** North (km): **2951.4**		
14. Emission Point Comment (limit to 200 characters): **EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL**		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
Cedarapids/Simplicity, Inc. – Raw Material Recieving Hopper / Vibrating Grizzly Feeder System – used to feed uncrushed material to crusher.		
1. Source Classification Code (SCC): **30502511**	3. SCC Units: **TONS OF PRODUCT PROCESSED**	
4. Maximum Hourly Rate: **200 tph**	5. Maximum Annual Rate: **624,000 ton**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: **NA**	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM, PM10**	2. Pollutant Regulatory Code: **WP**	
3. Primary Control Device Code: **061**	4. Secondary Control Device Code: **099**	5. Total Percent Efficiency of Control: **80%**
6. Potential Emissions: **PM10 = 0.42 lb/hr & 0.65 ton/hr** **PM = 0.88 lb/hr & 1.36 ton/hr**		7. Synthetically Limited? [**X**]
8. Emission Factor: **0.0021 lb/ton Table 11.19.2-2 & footnote c** Reference: **AP-42**		8. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

PM10 = (200 lb/ton)(0.0021 lb/ton) = 0.42 lb/hr

$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0021 lb/ton)] / 2000 lb/ton = 0.65 ton/yr

PM = [(200 lb/ton)(0.0021 lb/ton)] (2.1) = 0.88 lb/hr

~~PM10~~$_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0021 lb/ton)] / 2000 lb/ton (2.1) = 1.36 ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):
Raw Material Receiving Hopper / Grizzly Feeder – subject to 40 CFR 60, subpart 000 rules and regulations.

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000**	2. Future Effective Date of Allowable Emissions: **Initial Compliance Test**
3. Requested Allowable Emissions and Units: **< 10 % Opacity**	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters): **Initial and Annual EPA Method 9 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)

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype: **VE**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **<10%** Exceptional Conditions: **<10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.**	
5. Visible Emissions Comment (limit to 200 characters):	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NONE**	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):	

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 [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [**X**] Attached, Document ID: **V** [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [**X**] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [**X**] Attached, Document ID: **VI** [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [**X**] Attached, Document ID: **VII** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [**X**] Not Applicable
10. Supplemental Requirements Comment:

EMISSIONS ID. NO. 002

Bohringer Model RC14 Impact Crusher

III. EMISSIONS UNIT INFORMATION

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 Addressed in This Section: (Check one)

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

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

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

9. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Bohringer, Inc. Model #RC14 Impact Crusher and Discharge Pan – where crushed material exits crushing unit and falls onto conveyor belt.

3. Emissions Unit Identification Number:
ID: **002**

[ ] No ID
[ ] ID Unknown

10. Emissions Unit Status Code:	11. Initial Startup Date:	12. Emissions Unit Major Group SIC Code:
ACTIVE	**UNKNOWN**	**14**

13. Emissions Unit Comment: (Limit to 500 Characters):

THIS AGGREGATE PROCESSING UNIT WILL CRUSH AND SCREEN RECLAIMED ASPHALT AND CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY EMISSIONS OCCUR THE MATERIAL INTRODUCED TO THE GRIZZLY FEEDER WILL BE SPRAYED WITH WATER IN IT'S STOCKPILE AND AT THE FEEDER, AS TO CONTROL ANY EMISSIONS THAT MAY BE GENERATED.

Emissions Unit Control Equipment

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

ANY EMISSIONS THAT MAY BE GENERATED BY CRUSHING AND DISCHARGING OF UNCRUSHED MATERIAL ONTO DISCHARGE PAN AND CONVEYOR BELT INTO CRUSHER ARE CONTROLLED AT THIS FACILITY BY DAMPENING MATERIAL IN IT'S STOCKPILE AND IN THE GRIZZLY FEEDER AS NEEDED AS TO CONTROL GENERATION OF FUGITIVES

2. Control Device or Method Code(s): **061,099**

Emissions Unit Details

1. Package Unit: **CRUSHER / DISCHARGE PAN**
   Manufacturer: **BOHRINGER, INC.** Model Number: **RC14**
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 Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE**
4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE**
5. Requested Maximum Operating Schedule:
   10 hours/day **6** days/week
   52 weeks/year **3120** hours/year

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

Dampened, uncrushed reclaimed asphalt material is fed into the crusher from the receiving hopper and grizzly feeder of the plant where it is crushed and discharged to the discharge pan where it fall onto a conveyor belt. Any fugitive emissions generated are controlled by dampening of the material before it enters the grizzly feeder and crusher as needed.

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **002 (Cone Crusher)**	7. Emission Point Type Code: **4**

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):
NONE

8. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
NONE

9. Discharge Type Code: **F**	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: ~7 FEET	

13. Emission Point UTM Coordinates: **(Relocatable unit figures below are location now)**
Zone: **17** East (km): **592.1** North (km): **2951.4**

14. Emission Point Comment (limit to 200 characters):
EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL.

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Bohringer, Inc. – Portable Impact Crushing Unit Model RC14 – Crusher Discharge Pan/Belt. (Material Handling – Emissions related to dropping material out of crusher onto belt.)**		
2. Source Classification Code (SCC): **30502003**	3. SCC Units: **TONS OF PRODUCT PROCESSED**	
4. Maximum Hourly Rate: **200 tph**	10. Maximum Annual Rate: **624,000 ton**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: **NA**	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Emissions Unit Information Section ___2___ **of** __10____

Pollutant Detail Information Page ___1___ **of** __1____

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM, PM10**	2. Pollutant Regulatory Code: **WP**	
3. Primary Control Device Code: **061**	4. Secondary Control Device Code: **099**	5. Total Percent Efficiency of Control: **80%**
6. Potential Emissions: **PM10 = 0.48 lb/hr & 0.75 ton/hr** **PM = 1.01 lb/hr & 1.57 ton/hr**		7. Synthetically Limited? [X]
8. Emission Factor: **0.0024 lb/ton** Reference: **AP-42 (Table 11.19.2-2 controlled) and footnote © for PM Emissions**		15. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

0.00059 → Factor for uncontrolled 0.00059 should be used. Spoke w/ Bernard Ball 11/8/99

PM10 = (200 lb/ton)(0.0024 lb/ton) = ~~0.48 lb/hr~~ = 0.12 lb/hr

$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(~~0.0024 lb/ton~~ 0.00059 lb/ton)] / 2000 lb/ton = ~~0.75~~ 0.18 ton/yr

PM = [(200 lb/ton)(0.0024 lb/ton)] (2.1) = 1.01 lb/hr

~~PM10~~ $_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0024 lb/ton)] / 2000 lb/ton (2.1) = 1.57 ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):
Crusher and Discharge Pan – subject to 40 CFR 60, subpart 000 rules and regulations.

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000**	2. Future Effective Date of Allowable Emissions: **Initial Compliance Test**
3. Requested Allowable Emissions and Units: **< 15 % Opacity**	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters): **Initial and Annual EPA Method 9 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)

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype: **VE**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **<15%** Exceptional Conditions: **<15%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.**	
5. Visible Emissions Comment (limit to 200 characters):	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NONE**	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):	

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 [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [**X**] Attached, Document ID:__**V**____[ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [**X**] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [**X**] Attached, Document ID:__**VI**____ [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [**X**] Attached, Document ID:__**VII**__ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [**X**] Not Applicable
10. Supplemental Requirements Comment:

EMISSIONS ID. NO. 003

Cedarapids/Simplicity Vibrating Screener

III. EMISSIONS UNIT INFORMATION

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 Addressed in This Section: (Check one)

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

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

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

16. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Cedarapids, Inc. – Triple Deck Vibrating Screener – Vibrating Screener to Screener Discharge Conveying System (drop point from Vibrating Screener to Screener Discharge Conveying System)

3. Emissions Unit Identification Number:
ID: **003**
[ ] No ID
] ID Unknown

17. Emissions Unit Status Code:	18. Initial Startup Date:	19. Emissions Unit Major Group SIC Code:
ACTIVE	**UNKNOWN**	**14**

20. Emissions Unit Comment: (Limit to 500 Characters):

The fugitive emissions generated from this drop point where crushed material leaves the vibrating screener and is dropped onto the screened material discharge belt are controlled by the water spray bar system on a as needed basis, mounted in the area of the discharge pan / conveying system. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from being dampened in it's stockpile and in the grizzly feeder.

Emissions Unit Information Section __3___ of __10___
Cedarapids – Triple Deck Vibrating Screener
Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **The fugitive emissions generated from this drop point where crushed material leaves the vibrating screener and is dropped onto the two Radial Stacker Belts are controlled by a water spray bar system on a as needed basis, mounted in this area. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from being dampened in it's stockpile and in the grizzly feeder.**
2. Control Device or Method Code(s): **061,099**

Emissions Unit Details

1. Package Unit: **TRIPLE DECK VIBRATING SCREENER** Manufacturer: **CEDARAPIDS**	Model Number: **7 x 20**	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		°F seconds °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE**		
4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE**		
5. Requested Maximum Operating Schedule:		
10 hours/day		**6** days/week
52 weeks/year		**3120** hours/year

21. Operating Capacity/Schedule Comment (limit to 200 characters):
The fugitive emissions generated from this drop point where crushed material leaves the vibrating screener and is dropped onto the two Radial Stacker Belts are controlled by a water spray bar system on a as needed basis, mounted in this area. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from being dampened in it's stockpile and in the grizzly feeder.

Emissions Unit Information Section __3___ of __10___
Cedarapids – Triple Deck Vibrating Screener

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **003 (Vibrating Screener)**		11. Emission Point Type Code: **4**
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NONE**		
12. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NONE**		
13. Discharge Type Code: **F**	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: **~10** FEET
13. Emission Point UTM Coordinates: **(unit figures below are W. Palm location)** Zone: **17** East (km): **592.1** North (km): **2951.4**		
14. Emission Point Comment (limit to 200 characters): **EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL.**		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Cedarapids, Inc. – Portable Crushing Unit – Triple Deck Vibrating Screener to Screened Material Discharge Belt. (Material Handling – Emissions related to conveying of reclaimed crushed material).Portable Cone (Material Handling - Emissions related to dropping material out of screener onto belt.)**		
3. Source Classification Code (SCC): **30502003**	3. SCC Units: **TONS OF PRODUCT PROCESSED**	
4. Maximum Hourly Rate: **200 tph**	14. Maximum Annual Rate: **624,000 ton**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: **NA**	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Emissions Unit Information Section ___3___ **of** __10____

Pollutant Detail Information Page ___1___ **of** __1____

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM, PM10**	2. Pollutant Regulatory Code: **WP**	
3. Primary Control Device Code: **061**	4. Secondary Control Device Code: **099**	5. Total Percent Efficiency of Control: **80%**
6. Potential Emissions: **PM10 = 0.42 lb/hr, 0.96 ton/yr** **PM = 0.88 lb/hr, 1.38 ton/yr**		7. Synthetically Limited? [X]
8. Emission Factor: **0.0021 lb/ton** Reference: **AP-42 (Table 11.19.2-2 controlled) and footnote © for PM Emissions**		22. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

$PM10_{yearly}$ = [(200 ton/hr)(3120 hr/yr)(0.0021 lb/ton)] / (2000 lb/ton) = 0.66 ton/yr
$PM10_{hour}$ = [(200 ton/hr)(0.0021 lb/ton)] = 0.42 lb/hr

TSP_{yearly} = [(200 ton/hr)(3120 hr/yr)(0.0021 lb/ton)] (2.1) / (2000 lb/ton) = 1.38 ton/yr
TSP_{hour} = [(200 ton/hr)(0.0021 lb/ton)] (2.1) = 0.88 lb/hr

11. Pollutant Potential Emissions Comment (limit to 200 characters):
Vibrating Screener – subject to 40 CFR 60, subpart 000 rules and regulations.

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000**	2. Future Effective Date of Allowable Emissions: **Initial Compliance Test**
3. Requested Allowable Emissions and Units: **< 10 % Opacity**	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters): **Initial and Annual EPA Method 9 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)

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype: **VE**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **<10%** Exceptional Conditions: **<10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.**	
5. Visible Emissions Comment (limit to 200 characters):	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NONE**	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):	

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 [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [**X**] Attached, Document ID:__**V**_____[ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [**X**] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [**X**] Attached, Document ID:__**VI**____ [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [**X**] Attached, Document ID:__**VII**__ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [**X**] Not Applicable
10. Supplemental Requirements Comment:

EMISSIONS ID. NO. 004

Crushed Material Feed Conveying System

III. EMISSIONS UNIT INFORMATION

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 Addressed in This Section: (Check one)

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

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

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

23. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Feed Conveyor Transfer Point – Transfer Point where metal is extracted from crushed material drops to the pre-screener conveyor belt. (drop point from feed conveyor belt to pre-screener)

3. Emissions Unit Identification Number: ID: **004**	[ ] No ID] ID Unknown

24. Emissions Unit Status Code:	25. Initial Startup Date:	26. Emissions Unit Major Group SIC Code:
ACTIVE	**UNKNOWN**	**14**

27. Emissions Unit Comment: (Limit to 500 Characters):

The fugitive emissions generated from this drop point where crushed material leaves the feed conveyor, any metal is extracted by a magnet, and is dropped onto a the pre-screener transfer belt. Any emissions generated at this point will be controlled by the water spray bar system on a as needed basis, mounted in this area if needed. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from previous spray systems and is also dampened before it leaves it's stockpile.

Emissions Unit Information Section __4___ of __10___
Material Feed Conveyor Drop Point
Emissions Unit Control Equipment

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

The fugitive emissions generated from this drop point where crushed material leaves the feed conveyor and is dropped onto the pre-screener belt will be controlled by the water spray bar system on a as needed basis, mounted in this area. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from previous spray systems and is also dampened before it leaves it's stockpile.

2. Control Device or Method Code(s): **061,099**

Emissions Unit Details

1. Package Unit: **Material Feed Conveyor Drop Point to Pre-Screener Conveyor**
   Manufacturer: **Bohringer** Model Number: **RC14**
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 Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE**
4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE**
5. Requested Maximum Operating Schedule:
   10 hours/day **6** days/week
   52 weeks/year **3120** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):
The fugitive emissions generated from this drop point where crushed material leaves the feed conveyor and is dropped onto the pre-screener belt will be controlled by the water spray bar system on a as needed basis, mounted in this area. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from previous spray systems and is also dampened before it leaves it's stockpile.

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **004 (Material Conveyor Drop Pt.)**		15. Emission Point Type Code: **4**
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NONE**		
16. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NONE**		
17. Discharge Type Code: **F**	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: **~4** FEET
13. Emission Point UTM Coordinates: **(unit figures below are for W. Palm Location)** Zone: **17** East (km): **592.1** North (km): **2951.4**		
14. Emission Point Comment (limit to 200 characters): **EMISSIONS AT THIS DROP POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL.**		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Bohringer, Inc. – Portable Crushing Unit – Material Feed Conveyor Drop Point to Pre-Screener Conveyor. (Material Handling - Emissions related to conveying of reclaimed crushed material from one belt to another)**		
4. Source Classification Code (SCC): **30502006**	3. SCC Units: **TONS OF PRODUCT PROCESSED**	
4. Maximum Hourly Rate: **200 tph**	18. Maximum Annual Rate: **624,000 ton**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: **NA**	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM, PM10**	2. Pollutant Regulatory Code: **WP**	
3. Primary Control Device Code: **061**	4. Secondary Control Device Code: **099**	5. Total Percent Efficiency of Control: **80%**
6. Potential Emissions: **PM10 = 0.28 lb/hr, 0.44 ton/yr** **PM = 0.59 lb/hr, 0.92 ton/yr**		7. Synthetically Limited? [**X**]
8. Emission Factor: **0.0014 lb/ton** Reference: **AP-42 (Table 11.19.2-2 uncontrolled) and footnote © for PM Emissions (worst case scenario)**		28. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

$PM10_{yearly}$ = [(200 ton/hr)(3120 hr/yr)(0.0014 lb/ton)] / (2000 lb/ton) = 0.44 ton/yr
$PM10_{hour}$ = [(200 ton/hr)(0.0014 lb/ton)] = 0.28 lb/hr

TSP_{yearly} = [(200 ton/hr)(3120 hr/yr)(0.0014 lb/ton)] (2.1) / (2000 lb/ton) = 0.92 ton/yr
TSP_{hour} = [(200 ton/hr)(0.0014 lb/ton)] (2.1) = 0.59 lb/hr

11. Pollutant Potential Emissions Comment (limit to 200 characters):
Material Feed Drop Point – subject to 40 CFR 60, subpart 000 rules and regulations.

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000**	2. Future Effective Date of Allowable Emissions: **Initial Compliance Test**
3. Requested Allowable Emissions and Units: **< 10 % Opacity**	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters): **Initial and Annual EPA Method 9 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)

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype: **VE**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **<10%** Exceptional Conditions: **<10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.**	
5. Visible Emissions Comment (limit to 200 characters):	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NONE**	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):	

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 [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [**X**] Attached, Document ID:__**V**_____[ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [**X**] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [**X**] Attached, Document ID:__**VI**____ [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [**X**] Attached, Document ID:__**VII**__ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [**X**] Not Applicable
10. Supplemental Requirements Comment:

EMISSIONS ID. NO. 005

Pre-Screening Conveying System

III. EMISSIONS UNIT INFORMATION

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 Addressed in This Section: (Check one)

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

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

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

29. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Pre-Screening Conveyor Drop – Drop Point where crushed material drops to the pre-screener conveyor belt to vibrating screener.

3. Emissions Unit Identification Number:
ID: **005**
[ ] No ID
[ ] ID Unknown

30. Emissions Unit Status Code:	31. Initial Startup Date:	32. Emissions Unit Major Group SIC Code:
ACTIVE	**UNKNOWN**	**14**

33. Emissions Unit Comment: (Limit to 500 Characters):

The fugitive emissions generated from this drop point where crushed material leaves the pre-screener and is dropped onto the vibrating triple deck screener. Any emissions generated at this point will be controlled by the water spray bar system on a as needed basis, mounted in this area of the previous drop point if needed. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from previous spray systems and is also dampened before it leaves it's stockpile.

Emissions Unit Information Section __5___ of __10___
Pre-Screening Material Conveyor Drop Point
Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **The fugitive emissions generated from this drop point where crushed material leaves the pre-screener and is dropped onto the vibrating triple deck screener. Any emissions generated at this point will be controlled by the water spray bar system on a as needed basis, mounted in this area of the previous drop point if needed. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from previous spray systems and is also dampened before it leaves it's stockpile.**
2. Control Device or Method Code(s): **061,099**

Emissions Unit Details

1. Package Unit: **Pre-Screener Conveyor Drop Point to Triple Deck Vibrating Screener** Manufacturer: **Bohringer** Model Number: **RC14**		
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 Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE**		
4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE**		
5. Requested Maximum Operating Schedule:		
10 hours/day		**6** days/week
52 weeks/year		**3120** hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):
The fugitive emissions generated from this drop point where crushed material leaves the pre-screener and is dropped onto the vibrating triple deck screener. Any emissions generated at this point will be controlled by the water spray bar system on a as needed basis, mounted in this area of the previous drop point if needed. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from previous spray systems and is also dampened before it leaves it's stockpile.

Emissions Unit Information Section __5___ of __10___
Pre-Screening Material Conveyor Drop Point

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **005 (Pre-Screener Conveyor Drop Pt.)**	19. Emission Point Type Code: **4**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NONE**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NONE**		
5. Discharge Type Code: **F**	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: **~10** FEET	
13. Emission Point UTM Coordinates: **(unit figures below are for W. Palm Location)** Zone: **17** East (km): **592.1** North (km): **2951.4**		
14. Emission Point Comment (limit to 200 characters): **EMISSIONS AT THIS DROP POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL.**		

Emissions Unit Information Section __5___ of __10___
Pre-Screening Material Conveyor Drop Point

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Bohringer, Inc. – Portable Crushing Unit – Pre-Screener Feed Conveyor Drop Point to Triple Deck Vibrating Screener . (Material Handling - Emissions related to conveying of reclaimed crushed material from one belt to another object.)**		
5. Source Classification Code (SCC): **30502006**	3. SCC Units: **TONS OF PRODUCT PROCESSED**	
4. Maximum Hourly Rate: **200 tph**	20. Maximum Annual Rate: **624,000 ton**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: **NA**	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM, PM10**	2. Pollutant Regulatory Code: **WP**	
3. Primary Control Device Code: **061**	4. Secondary Control Device Code: **099**	5. Total Percent Efficiency of Control: **80%**
6. Potential Emissions: **PM10 = 0.28 lb/hr, 0.44 ton/yr** **PM = 0.59 lb/hr, 0.92 ton/yr**		7. Synthetically Limited? [X]
8. Emission Factor: **0.0014 lb/ton** Reference: **AP-42 (Table 11.19.2-2 uncontrolled) and footnote © for PM Emissions (worst case scenario)**		34. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

$PM10_{yearly}$ = [(200 ton/hr)(3120 hr/yr)(0.0014 lb/ton)] / (2000 lb/ton) = 0.44 ton/yr
$PM10_{hour}$ = [(200 ton/hr)(0.0014 lb/ton)] = 0.28 lb/hr

TSP_{yearly} = [(200 ton/hr)(3120 hr/yr)(0.0014 lb/ton)] (2.1) / (2000 lb/ton) = 0.92 ton/yr
TSP_{hour} = [(200 ton/hr)(0.0014 lb/ton)] (2.1) = 0.59 lb/hr

11. Pollutant Potential Emissions Comment (limit to 200 characters):
Material Feed Drop Point – subject to 40 CFR 60, subpart 000 rules and regulations.

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000**	2. Future Effective Date of Allowable Emissions: **Initial Compliance Test**
3. Requested Allowable Emissions and Units: **< 10 % Opacity**	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters): **Initial and Annual EPA Method 9 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)

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype: **VE**	2. Basis for Allowable Opacity: **[X]** Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **<10%** Exceptional Conditions: **<10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.**	
5. Visible Emissions Comment (limit to 200 characters):	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NONE**	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):	

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 [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [**X**] Attached, Document ID:__**V**_____[ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [**X**] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [**X**] Attached, Document ID:__**VI**____ [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [**X**] Attached, Document ID:__**VII**__ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [**X**] Not Applicable
10. Supplemental Requirements Comment:

EMISSIONS ID. NO. 006

Emissions From Radial Stacker Belt No.1

III. EMISSIONS UNIT INFORMATION

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 Addressed in This Section: (Check one)

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

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

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

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Drop Point from Radial Stacker No.1 to Stockpile – where crushed material leaves radial stacker belt to stockpile

3. Emissions Unit Identification Number: [ ] No ID
ID: **006**

35. Emissions Unit Status Code:	36. Initial Startup Date:	37. Emissions Unit Major Group SIC Code:
ACTIVE	**UNKNOWN**	**14**

38. Emissions Unit Comment: (Limit to 500 Characters):

CRUSHED RECLAIMED ASPHALT & CONCRETE WILL TRAVEL ALONG THE RADIAL STACKER BELT TO BE STOCKPILED FOR FUTURE USE AT CONSTRUCTION SITES. THE ENTIRE AGGREGATE PROCESSING UNIT WILL CRUSH AND AND CONVEY RECLAIMED ASPHALT & CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AND DAMPENED THROUGHT THE CRUSHING AND PROCESSING PROCESS AS TO CONTROL ANY EMISSIONS GENERATED.

Emissions Unit Control Equipment

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

ANY EMISSIONS THAT MAY BE GENERATED UNIT ARE CONTROLLED AT THIS FACILITY BY DAMPENING MATERIAL THROUGHOUT THE CRUSHING AND AGGREGATE PROCESSING PROCESS AS NEEDED TO CONTROL GENERATION OF FUGITIVES.

2. Control Device or Method Code(s): **061,099**

Emissions Unit Details

1. Package Unit: **RADIAL STACKER BELT NO.1**
   Manufacturer: **SELF FABRICATED** Model Number: **NA**
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 Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE**
4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE**
5. Requested Maximum Operating Schedule:

   10 hours/day **6** days/week

   52 weeks/year **3120** hours/year

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

CRUSHED RECLAIMED ASPHALT & CONCRETE WILL TRAVEL ALONG THE RADIAL STACKER BELT TO BE STOCKPILED FOR FUTURE USE AT CONSTRUCTION SITES. THE ENTIRE AGGREGATE PROCESSING UNIT WILL CRUSH AND AND CONVEY RECLAIMED ASPHALT & CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AND DAMPENED THROUGHT THE CRUSHING AND PROCESSING PROCESS AS TO CONTROL ANY EMISSIONS GENERATED. THIS RADIAL STACKER WILL NOT ALWAYS CARRY THE FULL LOAD OF 200 TPH AS THE OTHER RADIAL STACKER WILL CARRY PART OF THIS LOAD DEPENDENT ON MATERIAL SIZING.

Emissions Unit Information Section __6___ of __10___
Radial Stacker Conveyor No.1 Drop Point to Storage Piles

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **006 (Radial Stacker)**		22. Emission Point Type Code: **4**
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NONE**		
23. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NONE**		
24. Discharge Type Code: **F**	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: **~2-15** FEET
13. Emission Point UTM Coordinates: **(portable facility – figure below W. Palm location)** Zone: **17**	East (km): **592.1**	North (km): **2951.4**
14. Emission Point Comment (limit to 200 characters): **EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL.**		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Self Fabricated – Radial Stacker Belt No.1 – Material Drop Point to Stockpile (Material Handling – Emissions related to conveying and dropping of material.)**		
6. Source Classification Code (SCC): **30502006**	3. SCC Units: **TONS OF PRODUCT PROCESSED**	
4. Maximum Hourly Rate: **200 tph**	25. Maximum Annual Rate: **624,000 ton**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: **NA**	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

EMISSIONS UNIT NO. 6 of 10
Radial Stacker Belt No.1 – Drop Point to Storage Pile

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM, PM10**		2. Pollutant Regulatory Code: **WP**
3. Primary Control Device Code: **061**	4. Secondary Control Device Code: **099**	5. Total Percent Efficiency of Control: **80%**
6. Potential Emissions: **PM10 = 0.28 lb/hr & 0.44 ton/hr** **PM = 0.59 lb/hr & 0.92 ton/hr**		7. Synthetically Limited? [X]
8. Emission Factor: **0.0014 lb/ton** Reference: **AP-42 (Table 11.19.2-2 uncontrolled) and footnote © for PM Emissions (worst case scenario)**		40. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

PM10 = (200 lb/ton)(0.0014 lb/ton) = 0.28 lb/hr
$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0014 lb/ton)] / 2000 lb/ton = 0.44 ton/yr

PM = [(200 lb/ton)(0.0014 lb/ton)] (2.1) = 0.59 lb/hr

$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0014 lb/ton)] / 2000 lb/ton (2.1) = 0.92 ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):
Radial Stacker Belt – subject to 40 CFR 60, subpart 000 rules and regulations.

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000**	2. Future Effective Date of Allowable Emissions: **Initial Compliance Test**
3. Requested Allowable Emissions and Units: **< 10 % Opacity**	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):
Initial and Annual EPA Method 9 Compliance Testing

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

EMISSIONS UNIT NO. 6 of 10
Radial Stacker Belt No.1 – Drop Point to Storage Pile

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

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype: **VE**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **<10%** Exceptional Conditions: **<10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.**	
5. Visible Emissions Comment (limit to 200 characters):	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NONE**	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):	

EMISSIONS UNIT NO. 6 of 10
Radial Stacker Belt No.1 – Drop Point to Storage Pile

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 [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [X] Attached, Document ID: **V** [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [X] Attached, Document ID: **VI** [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: **VII** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

EMISSIONS ID. NO. 007

Emissions From Radial Stacker Belt No.2

III. EMISSIONS UNIT INFORMATION

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 Addressed in This Section: (Check one)

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

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

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

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Drop Point from Radial Stacker No.2 to Stockpile – where crushed material leaves radial stacker belt to stockpile

3. Emissions Unit Identification Number: [ ] No ID
ID: **007**

41. Emissions Unit Status Code:	42. Initial Startup Date:	43. Emissions Unit Major Group SIC Code:
ACTIVE	**UNKNOWN**	**14**

44. Emissions Unit Comment: (Limit to 500 Characters):

CRUSHED RECLAIMED ASPHALT & CONCRETE WILL TRAVEL ALONG THE RADIAL STACKER BELT TO BE STOCKPILED FOR FUTURE USE AT CONSTRUCTION SITES. THE ENTIRE AGGREGATE PROCESSING UNIT WILL CRUSH AND CONVEY RECLAIMED ASPHALT & CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AND DAMPENED THROUGHT THE CRUSHING AND PROCESSING PROCESS AS TO CONTROL ANY EMISSIONS GENERATED.

Emissions Unit Control Equipment

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

ANY EMISSIONS THAT MAY BE GENERATED UNIT ARE CONTROLLED AT THIS FACILITY BY DAMPENING MATERIAL THROUGHOUT THE CRUSHING AND AGGREGATE PROCESSING PROCESS AS NEEDED TO CONTROL GENERATION OF FUGITIVES.

2. Control Device or Method Code(s): **061,099**

Emissions Unit Details

1. Package Unit: **RADIAL STACKER BELT NO.2**
   Manufacturer: **SELF FABRICATED** Model Number: **NA**
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 Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE**
4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE**
5. Requested Maximum Operating Schedule:

   10 hours/day **6** days/week

   52 weeks/year **3120** hours/year

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

CRUSHED RECLAIMED ASPHALT & CONCRETE WILL TRAVEL ALONG THE RADIAL STACKER BELT TO BE STOCKPILED FOR FUTURE USE AT CONSTRUCTION SITES. THE ENTIRE AGGREGATE PROCESSING UNIT WILL CRUSH AND CONVEY RECLAIMED ASPHALT & CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AND DAMPENED THROUGHT THE CRUSHING AND PROCESSING PROCESS AS TO CONTROL ANY EMISSIONS GENERATED. THIS RADIAL STACKER WILL NOT ALWAYS CARRY THE FULL LOAD OF 200 TPH AS THE OTHER RADIAL STACKER WILL CARRY PART OF THIS LOAD DEPENDENT ON MATERIAL SIZING.

Emissions Unit Information Section __7_ of __10___
Radial Stacker Conveyor No.2 Drop Point to Storage Piles

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **007(Radial Stacker#2)**	27. Emission Point Type Code: **4**

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):
NONE

28. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
NONE

29. Discharge Type Code: **F**	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: **~2-15** FEET	

13. Emission Point UTM Coordinates: **(portable facility – figure below W. Palm location)**
Zone: **17** East (km): **592.1** North (km): **2951.4**

14. Emission Point Comment (limit to 200 characters):
EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL.

Emissions Unit Information Section __7_ of __10___
Radial Stacker Conveyor No.2 Drop Point to Storage Piles

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
Self Fabricated – Radial Stacker Belt No.2– Material Drop Point to Stockpile (Material Handling – Emissions related to conveying and dropping of material.)		
7. Source Classification Code (SCC): **30502006**	3. SCC Units: **TONS OF PRODUCT PROCESSED**	
4. Maximum Hourly Rate: **200 tph**	30. Maximum Annual Rate: **624,000 ton**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: **NA**	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM, PM10**	2. Pollutant Regulatory Code: **WP**	
3. Primary Control Device Code: **061**	4. Secondary Control Device Code: **099**	5. Total Percent Efficiency of Control: **80%**
6. Potential Emissions: **PM10 = 0.28 lb/hr & 0.44 ton/hr** **PM = 0.59 lb/hr & 0.92 ton/hr**		7. Synthetically Limited? [X]
8. Emission Factor: **0.0014 lb/ton** Reference: **AP-42 (Table 11.19.2-2 uncontrolled) and footnote © for PM Emissions (worst case scenario)**		46. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

PM10 = (200 lb/ton)(0.0014 lb/ton) = 0.28 lb/hr
$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0014 lb/ton)] / 2000 lb/ton = 0.44 ton/yr

PM = [(200 lb/ton)(0.0014 lb/ton)] (2.1) = 0.59 lb/hr

$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0014 lb/ton)] / 2000 lb/ton (2.1) = 0.92 ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):
Radial Stacker Belt – subject to 40 CFR 60, subpart 000 rules and regulations.

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000**	2. Future Effective Date of Allowable Emissions: **Initial Compliance Test**
3. Requested Allowable Emissions and Units: **< 10 % Opacity**	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):
Initial and Annual EPA Method 9 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)

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype: **VE**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **<10%** Exceptional Conditions: **<10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.**	
5. Visible Emissions Comment (limit to 200 characters):	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NONE**	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):	

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 [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [**X**] Attached, Document ID:__**V**_____[ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [**X**] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [**X**] Attached, Document ID:__**VI**____ [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [**X**] Attached, Document ID:__**VII**__ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [**X**] Not Applicable
10. Supplemental Requirements Comment:

EMISSIONS ID. NO. 008

Emissions Caterpillar Diesel Generator

III. EMISSIONS UNIT INFORMATION

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 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).

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

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

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Caterpillar Diesel fired Generator Set used to supply electrical power to the crushing / aggregate processing plant. Generator fired on No.2 virgin diesel fuel oil with a maximum sulfur content of 0.5% by weight, ~138,000 Btu/gal and a maximum fuel consumption of 25 gal/hr.

3. Emissions Unit Identification Number: [ ] No ID
ID: **008**

47. Emissions Unit Status Code:	48. Initial Startup Date:	49. Emissions Unit Major Group SIC Code:
ACTIVE	**UNKNOWN**	**14**

50. Emissions Unit Comment: (Limit to 500 Characters):
325 H.P. Caterpillar Diesel Generator (545 kW) – fired on No.2 virgin diesel fuel with a maximum sulfur limit of 0.5% by weight – used to power all equipment employed by this crushing/aggregate processing unit.

Emissions Unit Information Section __8_ of __10___
Caterpillar Model 3412 Diesel Generator Set

Emissions Unit Control Equipment

31. Control Equipment/Method Description (limit to 200 characters per device or method): **NONE**
2. Control Device or Method Code(s): **NA**

Emissions Unit Details

1. Package Unit: **Generator Set** Manufacturer: **Caterpillar Diesel**	Model Number: **3412**	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		°F seconds °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **6.21** mmBtu/hr		
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **Consumes No.2 fuel oil at a maximum rate of 25 gal/hr**		
4. Maximum Production Rate: **25 gal/hr**		
5. Requested Maximum Operating Schedule:		
	10 hours/day	**6** days/week
	52 weeks/year	**3120** hours/year

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

325 H.P. Caterpillar Diesel Generator – fired on No.2 virgin diesel fuel with a maximum sulfur limit of 0.5% by weight – used to power all equipment employed by this crushing/aggregate processing unit.

Emissions Unit Information Section __8_ of __10___
Caterpillar Model 3412 Diesel Generator Set

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **008 (Generator)**		32. Emission Point Type Code: **4**
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NONE**		
33. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NONE**		
34. Discharge Type Code: **F**	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: **~12** FEET
13. Emission Point UTM Coordinates: **(portable unit – W. Palm location)** Zone: **17** East (km): **592.1** North (km): **2951.4**		
14. Emission Point Comment (limit to 200 characters):		

Emissions Unit Information Section __8_ of __10___
Caterpillar Model 3412 Diesel Generator Set

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Caterpillar Diesel Generator Set – Emissions from Detroit Diesel Generator fired on No.2 virgin diesel fuel with a maximum sulfur limit of 0.5% by weight.**		
8. Source Classification Code (SCC): **20222200401**	3. SCC Units: **1000 gallons burned**	
4. Maximum Hourly Rate: **25 ga/hr @ worst case**	35. Maximum Annual Rate: **78,000 gal/yr @ max.**	6. Estimated Annual Activity Factor: **0.50 tpy @ worst**
7. Maximum % Sulfur: **0.5%**	8. Maximum % Ash: **≤ 0.01 % by weight**	9. Million Btu per SCC Unit: **138,000**
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions **Pollutant 1 of 5**

1. Pollutant Emitted: **PM10**	2. Pollutant Regulatory Code: **WP**	
3. Primary Control Device Code:	4. Secondary Control Device Code: **NONE**	5. Total Percent Efficiency of Control: **0%**
6. Potential Emissions: : **PM10 = 1.07 lb/hr or 1.67 ton/yr**		7. Synthetically Limited? [**X**]
8. Emission Factor: **0.31 lb/MMBTU** Reference: **AP-42**		52. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

PM10 = (25 gal/hr fuel useage)(138,000 BTU/gal) = 3.45 MMBTU/hr
(3.45 MMBTU/hr)(0.31 lb/MMBTU) = 1.07 lb/hr
(1.07 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 1.67 ton/hr

11. Pollutant Potential Emissions Comment (limit to 200 characters):
Emissions from Diesel Generator Subject to 62-296.320 FAC

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000**	2. Future Effective Date of Allowable Emissions: **Initial Compliance Test**
3. Requested Allowable Emissions and Units: **< 10 % Opacity**	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):
Initial and Annual EPA Method 9 Compliance Testing

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

Emissions Unit Information Section __8_ of __10___
Caterpillar Model 3412 Diesel Generator Set

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions **Pollutant 2 of 5**

1. Pollutant Emitted: **NOx**	2. Pollutant Regulatory Code: **WP**	
3. Primary Control Device Code:	4. Secondary Control Device Code: **NONE**	5. Total Percent Efficiency of Control: **0%**
6. Potential Emissions: : **NOx = 15.21 lb/hr or 23.73 ton/yr**		7. Synthetically Limited? [X]
8. Emission Factor: **4.41 lb/MMBTU** Reference: **AP-42**		53. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

NOx = (25 gal/hr fuel useage)(138,000 BTU/gal) = 3.45 MMBTU/hr
(3.45 MMBTU/hr)(4.41 lb/MMBTU) = 15.21 lb/hr
(15.21 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 23.73 ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):
Emissions from Diesel Generator Subject to 62-296.320 FAC

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **62-296.320 of FAC**	2. Future Effective Date of Allowable Emissions: **Initial Compliance Test**
3. Requested Allowable Emissions and Units: **< 10 % Opacity**	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):
Initial and Annual EPA Method 9 Compliance Testing

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

Emissions Unit Information Section __8_ of __10___
Caterpillar Model 3412 Diesel Generator Set

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions **Pollutant 3 of 5**

1. Pollutant Emitted: **CO**	2. Pollutant Regulatory Code: **WP**	
3. Primary Control Device Code:	4. Secondary Control Device Code: **NONE**	5. Total Percent Efficiency of Control: **0%**
6. Potential Emissions: : **CO = 3.28 lb/hr or 5.12 ton/yr**		7. Synthetically Limited? [**X**]
8. Emission Factor: **0.95 lb/MMBTU** Reference: **AP-42**		54. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

CO = (25 gal/hr fuel useage)(138,000 BTU/gal) = 3.45 MMBTU/hr
(3.45 MMBTU/hr)(0.95 lb/MMBTU) = 3.28 lb/hr
(3.28 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 5.12 ton/hr

11. Pollutant Potential Emissions Comment (limit to 200 characters):
Emissions from Diesel Generator Subject to 62-296.320 FAC

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **62-296.320 FAC**	2. Future Effective Date of Allowable Emissions: **Initial Compliance Test**
3. Requested Allowable Emissions and Units: **< 20% Opacity**	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):
Initial and Annual EPA Method 9 Compliance Testing

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

Emissions Unit Information Section __8_ of __10___
Caterpillar Model 3412 Diesel Generator Set

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions **Pollutant 4 of 5**

1. Pollutant Emitted: **SOx**		2. Pollutant Regulatory Code: **WP**
3. Primary Control Device Code:	4. Secondary Control Device Code: **NONE**	5. Total Percent Efficiency of Control: **0%**
6. Potential Emissions: : **SOx = 1.00 lb/hr or 1.56 ton/yr**		7. Synthetically Limited? [**X**]
8. Emission Factor: **0.29 lb/MMBTU** Reference: **AP-42**		55. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

SOx = (25 gal/hr fuel useage)(138,000 BTU/gal) = 3.45 MMBTU/hr
(3.45 MMBTU/hr)(0.29 lb/MMBTU) = 1.00 lb/hr
(1.00 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 1.56 ton/hr

11. Pollutant Potential Emissions Comment (limit to 200 characters):
Emissions from Diesel Generator Subject to 62-296.320 FAC

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **62-296.320 FAC**	2. Future Effective Date of Allowable Emissions: **Initial Compliance Test**
3. Requested Allowable Emissions and Units: **< 20% Opacity**	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):
Initial and Annual EPA Method 9 Compliance Testing

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

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions **Pollutant 5 of 5**

1. Pollutant Emitted: **TOC**		2. Pollutant Regulatory Code: **WP**
3. Primary Control Device Code:	4. Secondary Control Device Code: **NONE**	5. Total Percent Efficiency of Control: **0%**
6. Potential Emissions: : **TOC = 1.24 lb/hr or 1.93 ton/yr**		7. Synthetically Limited? [**X**]
8. Emission Factor: **0.36 lb/MMBTU** Reference: **AP-42**		56. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

TOC = (25 gal/hr fuel useage)(138,000 BTU/gal) = 3.45 MMBTU/hr
(3.45 MMBTU/hr)(0.36 lb/MMBTU) = 1.24 lb/hr
(1.24 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 1.93 ton/hr

11. Pollutant Potential Emissions Comment (limit to 200 characters):
Emissions from Diesel Generator Subject to 62-296.320 FAC

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **62-296.320 FAC**	2. Future Effective Date of Allowable Emissions: **Initial Compliance Test**
3. Requested Allowable Emissions and Units: **< 20% Opacity**	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):
Initial and Annual EPA Method 9 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)

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype: **VE**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **<20%** Exceptional Conditions: **<10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.**	
5. Visible Emissions Comment (limit to 200 characters): **Visible Emissions from Diesel Generator are subject to 62-296.320 FAC**	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: **NONE**	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):	

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:___**VII**____[ ] Not Applicable [ ] Waiver Requested **can be found in supplemental secttion of application**
3. Detailed Description of Control Equipment [**X**] Attached, Document ID:__**V**_____[ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [**X**] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [**X**] Attached, Document ID:__**VI**____ [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [**X**] Attached, Document ID:__**VII**__ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [**X**] Not Applicable
10. Supplemental Requirements Comment:

EMISSIONS ID. NO. 009

Emissions From Paved and Unpaved Surfaces

III. EMISSIONS UNIT INFORMATION

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 Addressed in This Section: (Check one)

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

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

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

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Fugitive emissions from paved and unpaved areas – worst case scenario. All paved and unpaved areas and aggregate piles at this facility as well as other locations will be kept damp on a as needed basis.

3. Emissions Unit Identification Number: [ ] No ID
ID: **NA** [ ] ID Unknown

1. Emissions Unit Status Code:	2. Initial Startup Date:	3. Emissions Unit Major Group SIC Code:
NA	**ASAP**	**1422**

4. Emissions Unit Comment: (Limit to 500 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 a as needed basis.

Emissions Unit Information Section 9 of 10
FUGITIVE EMISSIONS FROM PAVED & UNPAVED AREAS
Emissions Unit Control Equipment

1. 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 or sprlinker 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 Input Rate:
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate:
4. Maximum Production Rate:
5. Requested Maximum Operating Schedule:

12 hours/day **6 days/week**

52 weeks/year ***not to exceeed: 3744*** **hrs/year**

6. Operating Capacity/Schedule Comment (limit to 200 characters):
Vehicular traffic at this facility will not be continuous 24 hrs/day

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **009 – Unpaved/Paved Areas**	2. Emission Point Type Code: **4**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NA – Fugitive Emission Point**		
3. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NOT APPLICABLE**		
4. Discharge Type Code: **F**	6. Stack Height: **~ 0.0** feet	7. Exit Diameter: **Not Determinable** feet
8. Exit Temperature: **~Ambient** °F	9. Actual Volumetric Flow Rate: **Unknown**	10. Water Vapor: **~5 %**
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: (@ **W. Palm Location**) Zone: **17** East (km): **592.1 E** North (km): **2951.4 N**		
14. Emission Point Comment (limit to 200 characters): **This emission point subject to 62-296.310 FAC Rules and Regulations.**		

Emissions Unit Information Section 9 of 10
FUGITIVE EMISSIONS FROM PAVED & UNPAVED AREAS

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 paved, unpaved roads and stockpiles (Material Handling) emissions related to silt content on roadways and vehicular traffic in facility. Worst case scenario.		
2. Source Classification Code (SCC): **3050204**	3. SCC Units: **Vehicle Miles Traveled**	
4. Maximum Hourly Rate: **NA**	5. Maximum Annual Rate: **NA**	6. Estimated Annual Activity Factor: **NA**
6. Maximum % Sulfur: **NA**	7. Maximum % Ash: **NA**	8. Million Btu per SCC Unit: **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):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM10, TSP**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **099**	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control: **90.0%**
6. Potential Emissions: PM10 : **1.25 lb/hr, 2.34 ton/yr**		7. Synthetically Limited? **[X] YES**
8. Emission Factor: **0.24 lb/VMT** Reference: **AP-42 (Section 13.2.1.1) unpaved roads**		9. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

$E = k(5.9)[s/12][S/30][W/3]^{0.7}[w/4]^{0.5}[365-P/365]$

$E = 0.36(5.9)[8.9/12][5/30][31.3/3]^{0.7}[10/4]^{0.5}[365-120/365] = 2.0$ lb/VMT

E = 2.0 lb/VMT (1-0.90 control efficiency from water truck or sprlinkers) = 0.2 lb/VMT

E_{daily} = (0.2 lb/VMT)(~ 75 VMT/day) = 15.0 lb/day

E_{year} = [(15.0 lb/day) / (~12 hr/day) (3744 hr/yr) / 2000 lb/ton = 2.34 ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Allowable Emissions Allowable Emissions ___1___ of __7____

3. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **NA**
4. Requested Allowable Emissions and Units: **<10% Opacity**	5. Equivalent Allowable Emissions: 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 characters): **Compliance will be achieved through initial and annual emissions compliance testing. Watering of roadways and stockpiles will be performed as to control fugitive emissions at all locations.**

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 ___1___ of ___1___

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [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):
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: **I** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [X] Attached, Document ID: **VII** [ ] Not Applicable [ ] Waiver Requested **Can be found in supplemental information section of application**
3. Detailed Description of Control Equipment [X] Attached, Document ID: **V** [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID: **VI** [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: **VII** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [ ] Not Applicable
10. Supplemental Requirements Comment:

EMISSIONS ID. NO. 010

Emissions From Stock and Storage Piles

III. EMISSIONS UNIT INFORMATION

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 Addressed in This Section: (Check one)

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

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

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

6. Description of Emissions Unit Addressed in This Section (limit 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 a as needed basis.

3. Emissions Unit Identification Number:
ID: **010**

[ ] No ID
[ ] ID Unknown

5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:
NA	**ASAP**	**1422**

8. Emissions Unit Comment: (Limit to 500 Characters):

Fugitive emissions from Aggregate Handling – worst case scenario. All aggregate piles at this facility and other locations will be kept damp on a as needed basis.

Emissions Unit Information Section 10 of 10
Fugitive Emissions from Aggregate Storage Piles
Emissions Unit Control Equipment

5. Control Equipment/Method Description (limit to 200 characters per device or method): **All aggregate stockpiles at this facility and other locations will be kept damp by water truck and sprlinker system on a as needed basis.**
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: Dwell Time: Incinerator Afterburner Temperature:		°F seconds °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
7. Requested Maximum Operating Schedule: **12 hours/day** **6 days/week** **52 weeks/year** ***not to exceeed: 3744*** **hrs/year**		
8. Operating Capacity/Schedule Comment (limit to 200 characters): **Aggregate Handling at this facility will not be continuous 24 hrs/day**		

Emissions Unit Information Section 10 of 10
Fugitive Emissions from Aggregate Storage Piles

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **010 – Storage Piles, Loader Operations**		6. Emission Point Type Code: **4**
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NA – Fugitive Emission Point**		
7. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NOT APPLICABLE**		
8. Discharge Type Code: **F**	6. Stack Height: **~ 0.0** feet	7. Exit Diameter: **Not Determinable** feet
8. Exit Temperature: **~Ambient** °F	9. Actual Volumetric Flow Rate: **Unknown**	10. Water Vapor: **~5** %
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet
13. Emission Point UTM Coordinates: **(@ W. Palm location)** Zone: **17** East (km): **592.1 E** North (km): **2951.4 N**		
14. Emission Point Comment (limit to 200 characters): **This emission point subject to 62-296.310 FAC Rules and Regulations.**		

Emissions Unit Information Section 10 of 10
Fugitive Emissions from Aggregate Storage Piles

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 aggregate stockpiles and loader operations (Material Handling) emissions related to fugitives from conveyor belt drops and from aggregate storage piles from prevailing winds.**		
12. Source Classification Code (SCC): **3050207, 3050205**	13. SCC Units: **Area of stockpiles / tons of products**	
14. Maximum Hourly Rate: **NA**	15. Maximum Annual Rate: **NA**	6. Estimated Annual Activity Factor: **NA**
16. Maximum % Sulfur: **NA**	17. Maximum % Ash: **NA**	18. Million Btu per SCC Unit: **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):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM10, TSP**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **099**	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control: **80.0%**
6. Potential Emissions: PM10 : **1.62 lb/hr, 0.61 ton/yr**		7. Synthetically Limited? **[X] YES**
6. Emission Factor: Reference: **AP-42 (Section 13.2.4.2)**		9.Emissions Method Code: **3**

7. Calculation of Emissions (limit to 600 characters):

$E = k(0.0032)[u/5]^{1.3}[M/2]^{1.4}$

E = 0.35(0.0032)[7/5]$^{1.3}$ / [0.7/2]$^{1.4}$ = 0.0081 lb/ton

E = 200 ton/hr (0.0081 lb/ton) = 1.62 lb/hr

E = (1.62 lb/hr)(1-0.80 control efficiency) (~12 hr/day) = 3.89 lb/day

E = [(3.89 lb/day) / (~12 hr/day) (3744 hr/yr) / 2000 lb/ton = 0.61 ton/yr

8. Pollutant Potential Emissions Comment (limit to 200 characters):

Aggregate Storage Piles & Conveyor Drops – Fugitive Emissions (controlled) are subject to 62-296.700 (2)(e)(f)

Allowable Emissions Allowable Emissions ___1___ of __7____

7. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **NA**
8. Requested Allowable Emissions and Units: **<10% Opacity**	9. Equivalent Allowable Emissions: PM10: **1.62 lb/hr, 0.61 ton/hr**

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):

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

Visible Emissions Limitation: Visible Emissions Limitation ___1___ of ___1___

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [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):
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

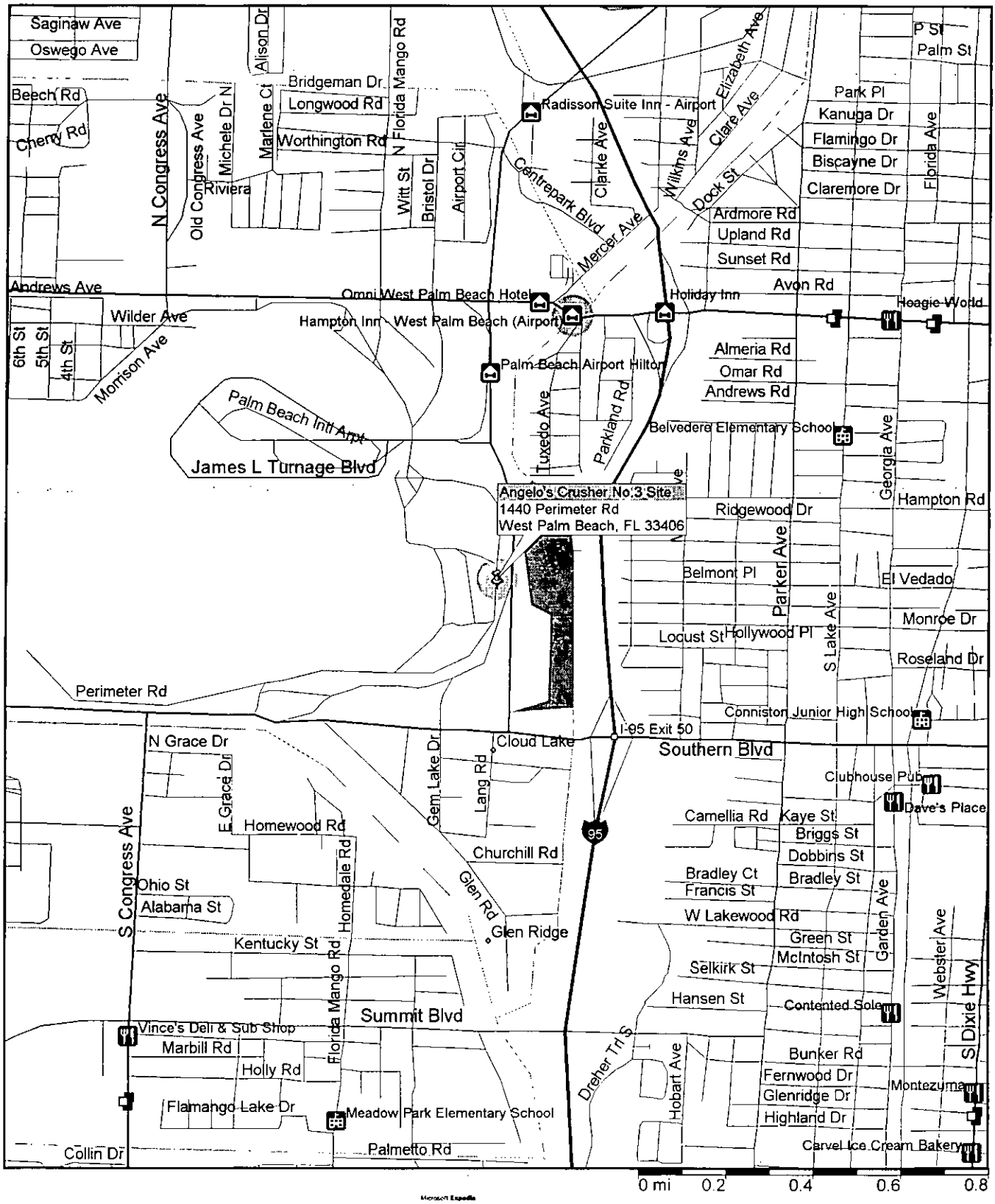
1. Process Flow Diagram [X] Attached, Document ID: **III** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [X] Attached, Document ID: **VII** [ ] Not Applicable [ ] Waiver Requested **Can be found in supplemental information section of application**
3. Detailed Description of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

TABLE OF CONTENTS

I. FACILITY LOCATION

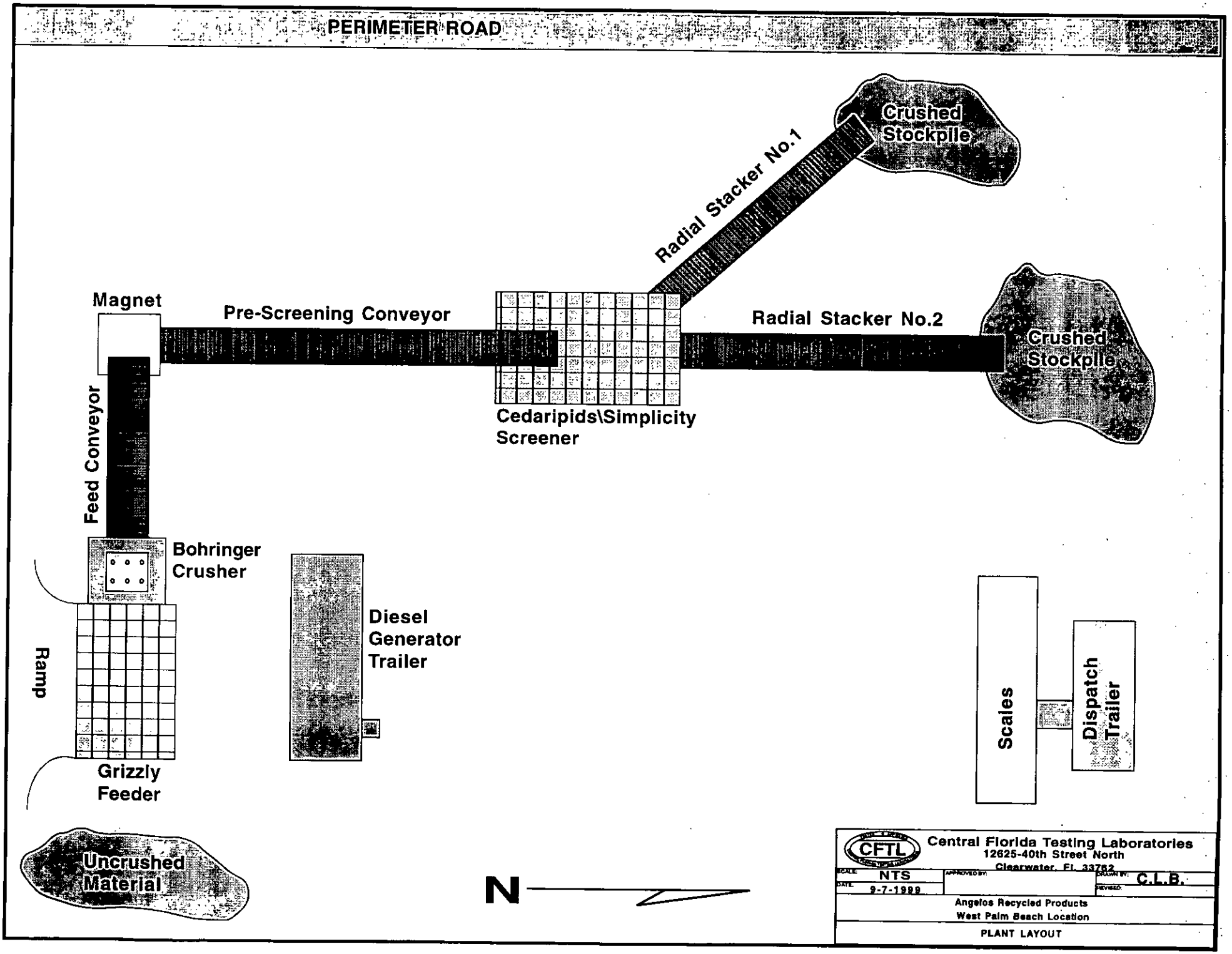
ANGELO'S RECYCLED PRODUCTS, INC.

PROPOSED SITE FOR CRUSHER No. 3

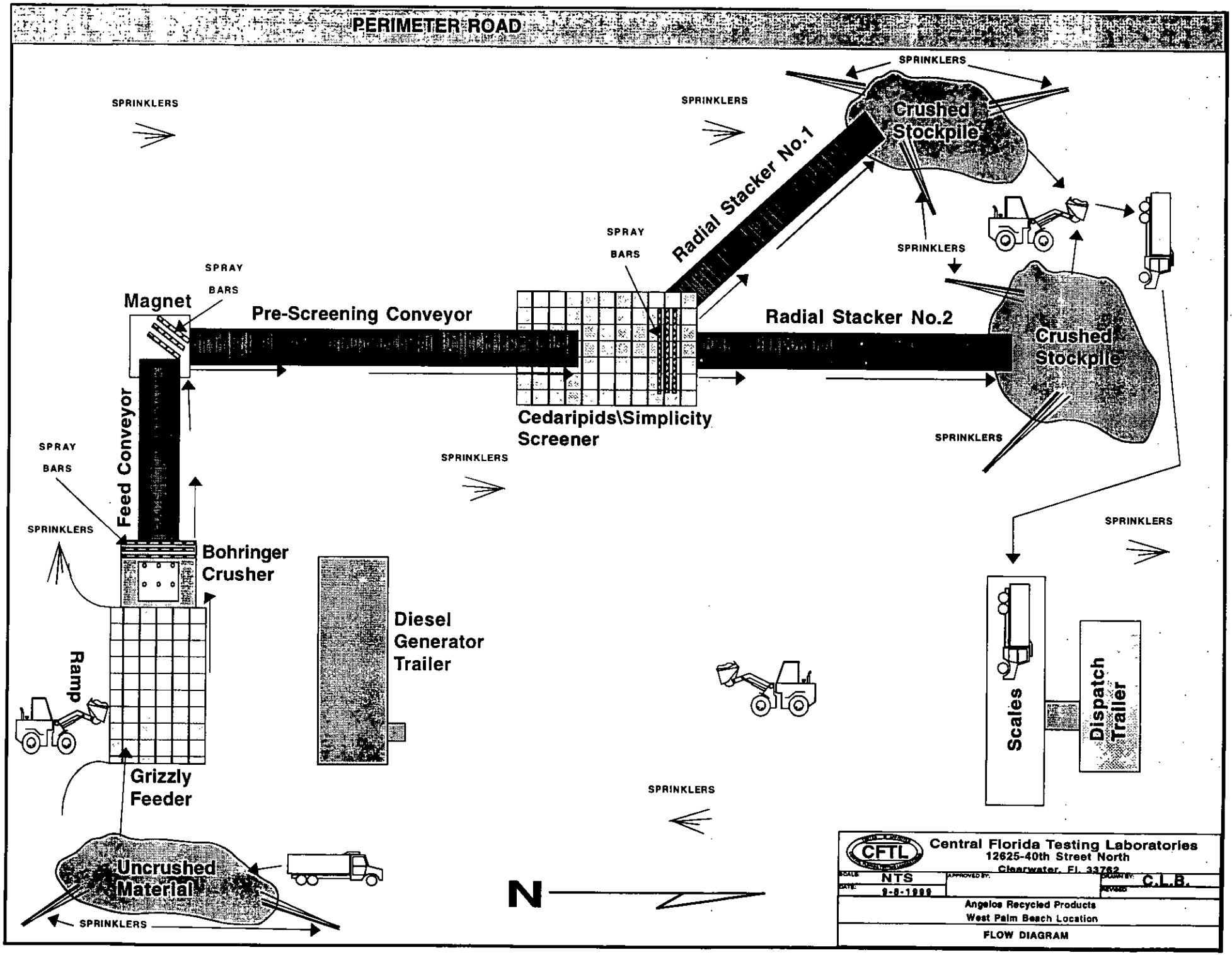


Microsoft Expedia
Streets98

II. SITE PLAN


PERIMETER ROAD
Crushed Stockpile
Radial Stacker No.1
Magnet
Pre-Screening Conveyor
Radial Stacker No.2
Crushed Stockpile
Feed Conveyor
Cedaripids\Simplicity Screener
Bohringer Crusher
Diesel Generator Trailer
Ramp
Scales
Dispatch Trailer
Grizzly Feeder
Uncrushed Material
N
CFTL
Central Florida Testing Laboratories
12625-40th Street North
Clearwater, Fl. 33762
SCALE: NTS
DATE: 9-7-1999
APPROVED BY:
DRAWN BY: C.L.B.
REVISED:
Angelos Recycled Products
West Palm Beach Location
PLANT LAYOUT

III. FLOW DIAGRAM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CFTL
Central Florida Testing Laboratories
12625-40th Street North
Clearwater, Fl. 33762
SCALE NTS
DATE 9-8-1999
APPROVED BY:
DRAWN BY: C.L.B.
REVISED
Angelos Recycled Products
West Palm Beach Location
FLOW DIAGRAM

PROCESS DESCRIPTION

This project consists of a portable secondary crushing plant that will be utilized to recycle reclaimed concrete and asphalt material at various sites throughout the State of Florida, for use as demolition recycling, base material and fill by contracting companies and for sale to the general public.

The process begins with the transfer of reclaimed concrete and asphalt material that has been scalped or excavated from bridges, highways, parking lots, building demolition, etc. is brought to the temporary by dump truck and stockpiled for crushing or the crushing unit is brought to the site of demolition where material has been stockpiled for crushing. This stockpiled material, usually in chunk form ranging from one to twenty inches in diameter contains very little if any fine material and therefore is virtually dust free. This material is too large to reuse in it's reclaimed size, so it has to be screened and crushed to various practical aggregate sizes. The reclaimed concrete are transferred from their stockpiles by a front-end-loader into the vibrating grizzly feeder hopper. From this hopper the reclaimed material vibrates into the crusher where it is crushed to a desired size and drops onto the vibrating screener below the crusher. This crushed material is then transferred by conveyor belt to a metal extractor that removes any metal that may have been within the reclaimed material. After passing the metal extractor the material is then dropped to another conveyor belt where it travels to the screening system. Once the material reaches and drops onto the portable discharge system any over size material is transferred back to the secondary crusher by conveyor, then passes through the secondary crushing unit onto a material conveying belt where it travels back to the screening system,whereas the material that passes through several screens and is dropped onto a appropiate converyor/stacker belts that stockpiles the material for reuse at a later time.

The majority of fugitive dust created during this process is generated by the vibrating feeder hopper,crushers and at the drop point below the crusher. These emission points as well as all transfer and drop points throughout the plant will be controlled by a self-made water spray bar / spray head dust suppression system that employs spray bars and spray heads at the various emission points throughout the plant. Any fugitives generated by vehicular traffic, winds and airborne particulate from stockpiles will be controlled by the constant use of a water truck employed at this facility and at the different jobsites to keep the entire facility dampened, to control these emissions.

This facility will comply with all FDEP Rules and Regulations referencing portable crushing plants of this type.

IV. UNCONFINED EMISSIONS

FUGITIVE EMISSION CONTROL

Precautions to control and prevent fugitive emissions are accomplished at this site occurs in several manners. Any stockpiles at this location or any other location will be kept dampened by sprlinker 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 sprlinker system on an as needed basis to control fugitive emissions.

V. CONTROL EQUIPMENT

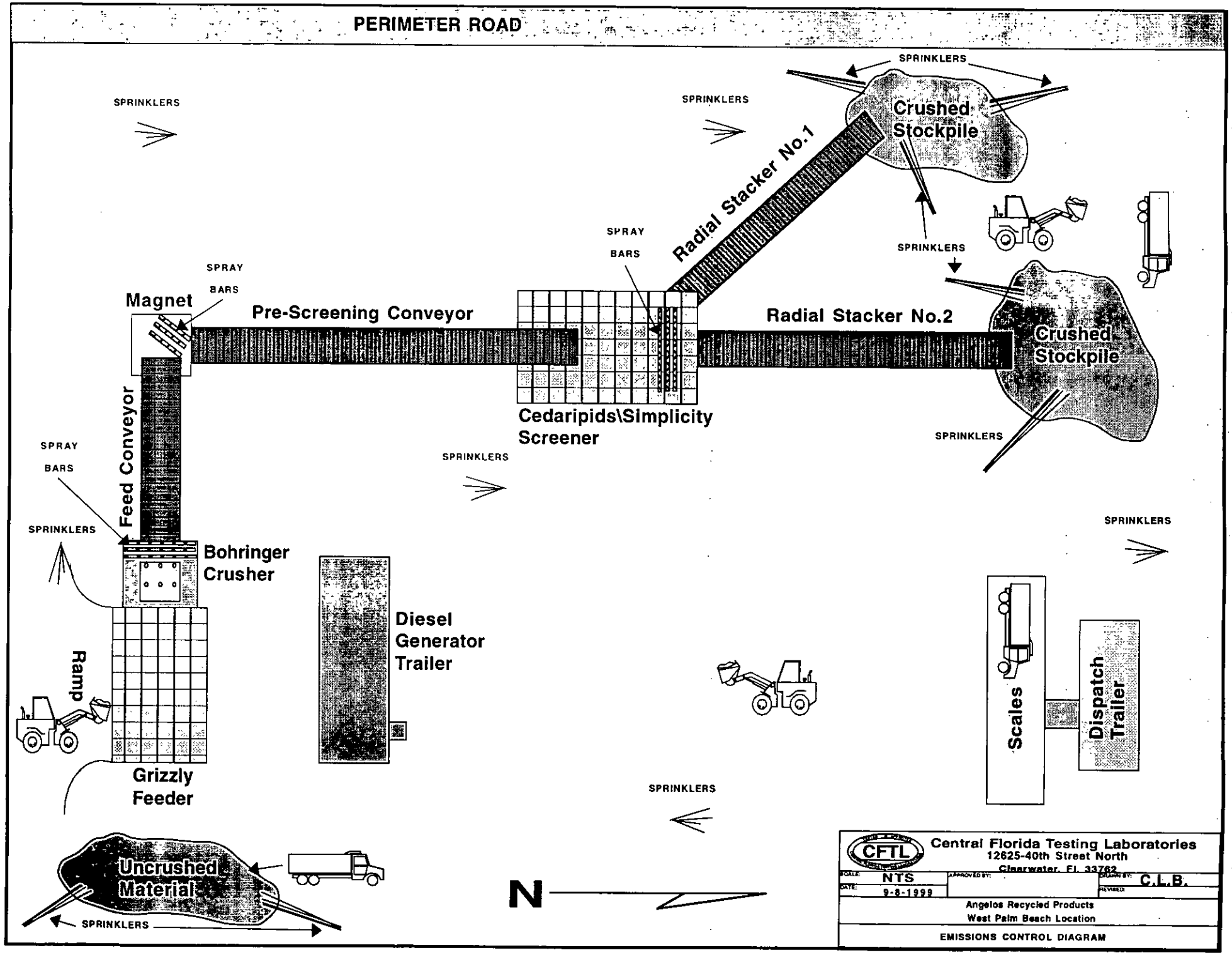
CONTROL EQUIPMENT

All of the equipment used to control fugitive dust emissions from this crushing unit was generated by crushing and maintenance personnel on as needed basis as this crushing unit did not come equipped with any dust suppression equipment when purchased.

The water spray bar and spray head system used on this equipment were manufactured and installed on all areas where possible fugitive dust emissions would occur during the crushing, screening and conveying operations. These areas include the grizzly feeder, the crusher, the conveyor belt drop points, screens and discharge pan.

The control process starts with an on site well that is equipped with two (2) electric pumps (only one used at a time as one is a spare) that is used to feed water through 1 1/2 inch PVC pipe to a hose bib rack. From the hose bib rack water is fed through either 1/2 PVC piping or 1/2 inch hose to spray heads and bars mounted at the various fugitive emission points mentioned above at 25-40 psi, depending what is needed to control the emissions. When at other sites the crusher is equipped with its own pump to supply water to the dust supression spray bar system. Water is usually obtained from various sources such as on site water supplies, fire hydrant, lakes, ponds or water truck.

In addition, plant personnel stand on top of the feeder hopper, where the material is dumped in by front loader, dampening the material that is in the loader and the material that is being dumped into this hopper with a high pressure water hose, to control any fugitive emissions generated.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APPROVED BY:
REVISED:
Angelos Recycled Products
West Palm Beach Location
EMISSIONS CONTROL DIAGRAM

VI. O & M PLAN

General Maintenance Intervals

The crushing unit and the general area are checked visually, daily for visible emissions. The entire compound inclusive of storage piles are continiously kept damp by a water truck. If any fugitive emissions are seen escaping the crushing plant the source is identified immediately and the problem area is corrected. Fugitive emissions at drop points are controlled by increasing and decreasing the water pressure from 25-40 psi, at the spray bars/heads.

Inspections of various parts of the Self-Made Water Spray Bar / Spray Head Dust Suppression System are done on a daily basis before startup, during operation and after shut down, as well as complete inspection on a weekly basis. If anything is found broken, not functioning or out of the ordinary it is fixed immediately by trained plant personnel. In addition, this dust supression system is equipped with a spare pump in case of breakdown the spare pump can be used until the other pump can be fixed.

OPERATING PARAMETERS
for
SELF-MADE WATER SPRAY BAR / SPRAY HEAD
DUST SUPRESSION SYSTEM

Water Pressure to Spray Bars & Spray Heads *20-45 psi @ each head*
Operation Mode *Continuous w/ product*

Maintenance Log

Description of Maintenance Performed:	Date	Initials

Maintenance Log

Description of Maintenance Performed:	Date	Initials

Maintenance Log

Description of Maintenance Performed:	Date	Initials

VII. SUPPLEMENTAL INFORMATION

ANGELO'S RECYCLED MATERIALS - PLANT NO. 3

Total Emissions Produced by Facility

3.5 5.5

Point	Emission Point Name	PM10 lb/hr	PM10 ton/yr	SOx lb/hr	SOx ton/yr	CO lb/hr	CO ton/yr	NOx lb/hr	NOx ton/yr	TOC lb/hr	TOC ton/yr
001	Receiving Hopper / Grizzly Feeder	0.42	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
002	Bohringer RC14 Impact Crusher	~~0.42~~	~~0.66~~	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
003	Vibrating Screener	0.42	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
004	Crushed Material Feed Conveyor	~~0.96~~	~~1.50~~	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
005	Pre-Screener Feed Conveyor	~~0.96~~	~~1.60~~	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
006	Radial Stacker No.1	~~0.96~~	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
007	Radial Stacker No.2	~~1.07~~	~~1.67~~	1.00	1.56	3.28	5.12	15.12	23.73	1.24	1.93
008	Caterpillar Gen-Set	~~1.00~~	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
009	~~Fugitives from Paved/Unpaved Areas~~	~~2.03~~	~~0.41~~	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
010	~~Fugitives from Storage Piles~~	~~2.03~~	~~0.41~~	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Emissions: Plant/Generator	5.31/1.07	6.77/1.67	1.00	1.56	3.28	5.12	15.21	23.73	1.24	1.93

Lower Lower Lower Lower

5.31 lb/hr 6.78 TPY

5.31 lb/hr × 3120 hr/yr × 2000 Tons/yr

6.38

5.31 lb/hr 6.78 TPY

1.25 2.34

- 1.62 - 0.61

2.44 3.83

Subtract out Fugitives

PM10 comes out?

PM10 (w/out Fugitives and w/ corrected emissions factor)

lb/hr Ton/yr

2.06 (2.1) 3.26 (3.3)

5.3 and 2.4 and 3.7

central company, inc.

PETROLEUM PRODUCTS

CENTRAL OIL COMPANY, INC.

FUEL OIL #2 (DISTILLATE) SPECIFICATIONS

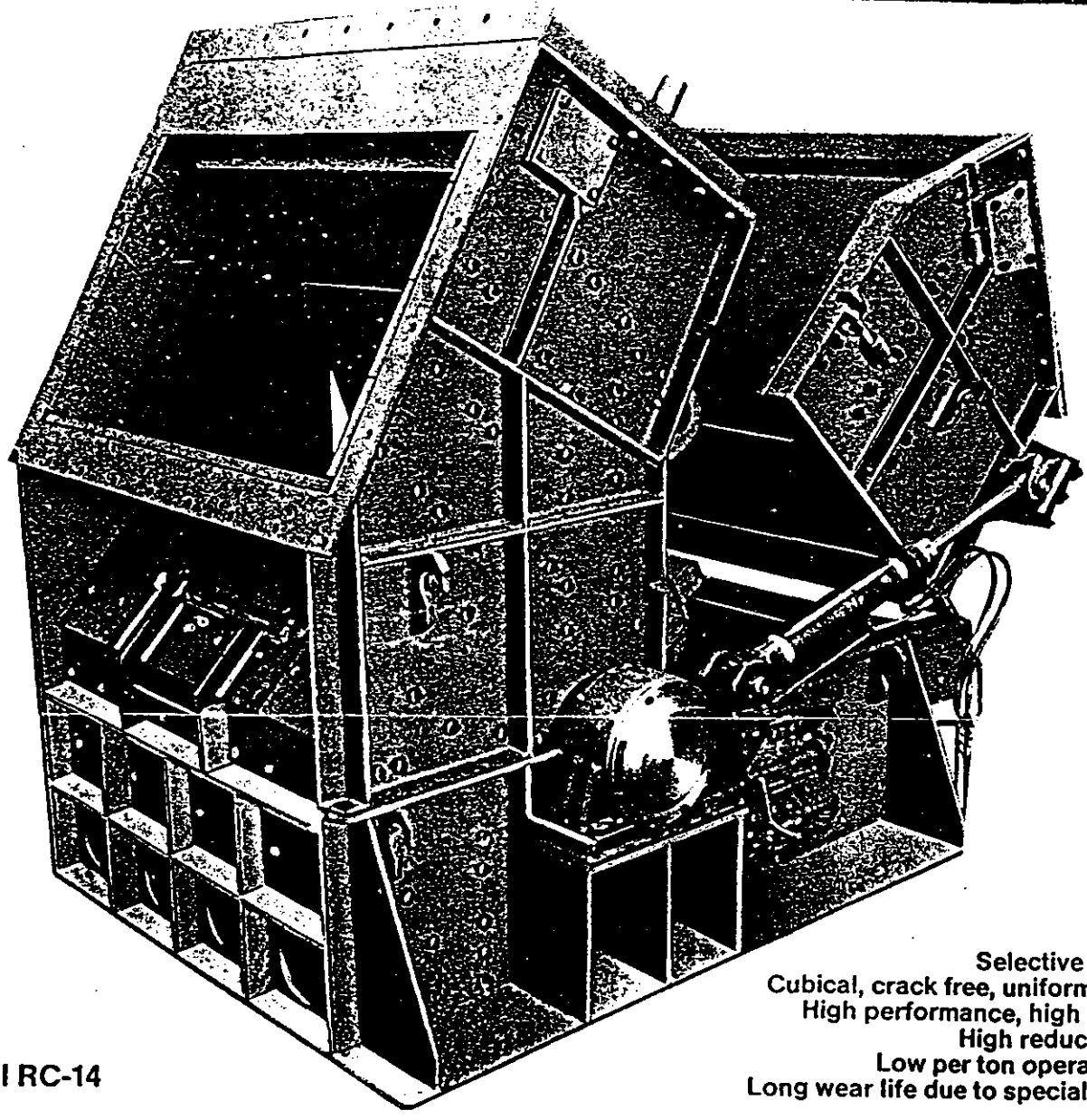
CHARACTERISTICS	MIN	MAX
GRAVITY, API AT 60°F	32.3	
SULPHUR, % WT.		0.21
POUR POINT, F		15.
BS & W. %		0.2
VISCOSITY, SSU/100F SECS	33	40.
VISCOSITY,KINEMATIC CST/40C	2.0	4.
FLASH POINT, PM CC, F	150.	
ASH, % WT.		0.01
CETANE NUMBER	40.	
CARBON RESIDUE,RAMSBOTTOM (10%)		25.
CLOUD POINT, F		0.01
SEDIMENT BY EXTRACTION, % WT.	C&B	
APPEARANCE		1.5
COLOR, ASTM		1-A
CORROSION, COPPER STRIP 3 HRS.122°F		"REPORT"
BTU PER U.S. GALLON	138,500	

P. O. Box 1034 • Tampa, Florida 33601 • Phone 813-248-2105 • Telex 52-2508

BÖHRINGER

Impact Crushers – Recycling –

„RC" Series for Asphalt, Concrete with wire mesh/rebar and Building rubble



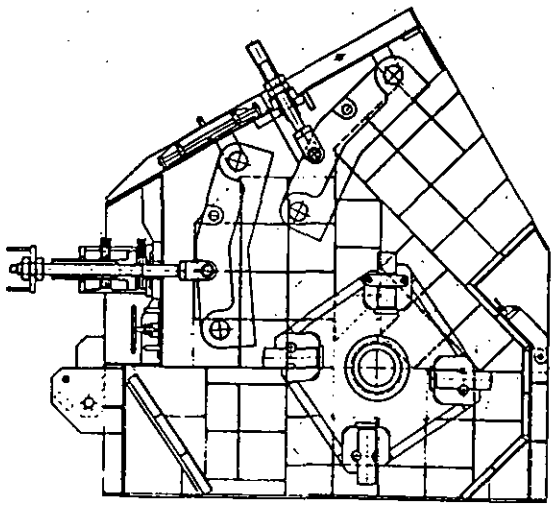
Model RC-14

Selective crushing.
Cubical, crack free, uniform product.
High performance, high capacitiy.
High reduction ratio.
Low per ton operating cost.
Long wear life due to special castings.

BÖHRINGER

Impact crushers „RC" series
– Recycling –

- increase your profits
- save energy
- lower your maintenance cost and down-time
- eliminate multi-stage crushing
- conserve raw material resources
- eliminate dumping costs



Model RC 14

Model	Rotor Dia. (Inch) Width	Feed Opening (Inch)	Capacity (Stph)	Power required (Hp)	Weight approx. (Lbs)
RC 18	59x70	71x47	300–400	300–500	88,700
RC 16	49¼x63	64x39	275–350	250–400	59,200
RC 14	49 ¼x55 15/16	57x37	175–275	200–350	41,700
RC 12	47¼x47¼	48x37	150–250	175–300	35,800
RC 10	43 5/16x41⅜	42x31	100–175	125–200	29,800
RC 7	39 3/8x27 9/16	28x20	50–100	75–125	18,100

Design specifications subject to change without notice. Technical data are approximates and should be used as a guide only. Capacity and power requirements depend on the type and characteristics of the feed material.

With the "RC"-series Boehringer offers a specially developed robust impact crusher for the recycling of asphalt, concrete (with mesh and rebar), building rubble and aggregates. The innovative design features, use of high wear resistant castings and utilization factor of the wear parts make this horizontal shaft, fixed blow bar impactor superior to any crusher of this type available today. Depending on the specific application the machine can be equipped with different interior parts. Access to the machine for inspection and/or maintenance is simplified through hydraulic opening of the upper rear housing section. The heavy duty rotor, the heart of any impact crusher, is equipped with four rows of blow bars made of high wear resistant castings. The two impact aprons are symetric, single piece castings, reversible and interchangeable. Dependent on the application, we also offer aprons with replaceable impact plates. Their special suspension assures minimum down-time for turning or replacing. Both aprons are gravity hung, adjustable towards the blow bars, to maintain a constant gap and thus assure a uniform product size. Spindle assemblies permit gap adjustment hydraulically on the lower (rear) apron. The crusher housing is lined with bolted, interchangeable wear plates of high wear resistant steel. The machine can be furnished with a tower crane, mounted to the feed hood, to assist with maintenance.

We offer consulting, application egineering of individual machinery and complete plants, such as:

Stationary processing plant

Portable recycling plant

Modular skid mounted plant

LINDER INDUSTRIAL MACHINERY COMPANY

Statewide To Serve You Better

"Sterling"

cc: Mr. Dan Sherman, LIMCO
Mr. Jim Teague, LIMCO
Mr. Jeff Chandler, LIMCO

QUOTATION

201 S. Frontage Rd.
Plant City, Florida 33566
(813) 754-2727

20900 Taft Street
Pembroke Pines, Florida 33029
(305) 433-2800

718 North Lane Avenue
Jacksonville, Florida 32254
(904) 786-6710

2289 Bruner Lane S.E.
Fort Myers, Florida 33912
(813) 481-2403

3950 West Hwy 326
Ocala, Florida 32675
(904) 629-7585

1400 S. Orange Blossom Trail
Orlando, Florida 32805
(407) 849-6560

TO Mr. Jim Thompson
S & E Contractors, Inc.
14561 58th Street North
Clearwater, Florida 34620

REFERENCE Linder Proposal #4005, Revision #1

DATE January 30, 1994

GENTLEMEN:
LINDER INDUSTRIAL MACHINERY COMPANY HEREBY SUBMITS TO YOU THE FOLLOWING QUOTATION ON THE GOODS LISTED BELOW SUBJECT TO ALL THE TERMS PRINTED ON THE REVERSE HEREOF. ALL OF WHICH ARE HEREBY MADE A PART OF ANY AGREEMENT BETWEEN US. THIS QUOTATION IS SUBJECT TO IMMEDIATE ACCEPTANCE AND THE PRICE INCLUDES ONLY THE MATERIAL LISTED BELOW.

ITEM NO	QUANTITY	ARTICLES AND DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
	1	New Boehringer Model RC-14 Portable Concrete and Asphalt Recycling Plant. Boehringer RC-14 Recycle Crusher: This impact crusher is a horizontal shaft, fixed blow bar impactor especially developed for crushing of concrete and asphalt. Aggregate may also be processed. Feed opening: 37" x 57" It consists of a lower housing with AR wear plates. The rotor is of solid construction with high WR^2, equipped with 4 blow bars made from special steel alloy castings that can be reversed and replaced vertically or horizontally. The rotor locks for safe maintenance. The bearings are mounted on shaft with replaceable adapter sleeves. The upper housing is protected with AR wear plates and designed with the rear part hinged, so it can be fully opened hydraulically. Two (2) impact mechanisms gravity hung with adjusting spindles (rear one adjusted hydraulically). Front apron is of single casting reversible. Rear apron fabricated with bolt-on impact plates.		
	1	Feed Hood: of 3/4" thick welded steel reinforced construction with chain and rubber curtain. Feed spout lined 1-1/4". Recirculating Product Spout: 33" feed dia. made of 1/4" thick steel plate.		

This Quotation includes Pages:

ABOVE PRICES ARE F.O.B. Clearwater, Florida Area
SHIPMENT Approximately 10 to 12 weeks.
TERMS See Page 10.

Bill Magness
Projects Manager

/sw

LINDER INDUSTRIAL MACHINERY COMPANY
1601 S. Frontage Road
Plant City, Florida 33566

ITEM NO	QUANTITY	ARTICLES AND DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
		Discharge Chute: of 3/4" thick welded steel reinforced construction. Electric Motor: 300 HP, 460 volt, 3 Ph., 1750 RPM, Service Factor 1.15, WEG electric motor with thermistors. Crusher Drive: complete with eight (8) 8V-3000 belts, motor pulley, crusher pulley, motor slide rails, base, guard. Feeder: 57" wide x 20' long vibrating grizzly feeder with 14' long solid deck impact section heavily lined complete with 6' long deck grizzly section with adjustable Scandia 400 AR steel bars. Feeder Drive: Feeder is driven by a 60 HP, 460 volt, 3 Ph., 60 Hz., eddy current, TEFC electric motor with controller, fixed motor base, complete with v-belts, motor and feeder sheaves. Feed Hopper: 20 tons capacity receiving hopper constructed of 1" thick steel plate with reinforcing. Hopper folds for height clearance. Hopper and feeder can be removed as a single module when highway restrictions prevail. By-Pass Chute: Collecting hopper with flop gate located under grizzly section to contain material passing through grizzly section. Fabricated from 3/8" steel plate and reinforcing. 1/2" liners in areas of wear. Chassis: Heavy duty 21" deep I-beam trailer frame construction with fishplating in areas of stress. Chassis is complete with access ladder, operator's walkways and platform, handrails, and back plates, king pin. Under Carriage: Reyco triple axle suspension fitted with twelve (12) wheels and 11:00 x 20, 12 ply tires, air brakes, running and braking lights. Blocking Legs: Folding type extending wider than plant for greater stability. Heavy duty with cross bracings. Plant design requires only 10" lift above ground. Four (4) steel blocks removed for transport. Lifting Device: Consisting of five (5) hydraulic jacks mounted on trailer frame to elevate and		

LINDER INDUSTRIAL MACHINERY COMPANY
1601 S. Frontage Road
Plant City, Florida 33566

ITEM NO	QUANTITY	ARTICLES AND DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
		level plant. Power unit consists of 35 gallon oil reservoir, pump, 7-1/2 HP motor, solenoid pushbuttons with controls, hoses, etc. Boehringer design 48" x 6' long vibrating feeder mounted under crusher to transfer crushed material and rebar steel onto a product discharge conveyor.	Steel's Pad Feeder 299,775 ea	
	1	New Portable Discharge System with Magnetic Separator: Includes belt protecting gathering hopper with replaceable liners, 48" x 40' channel frame type conveyor, 20° troughing idlers, oil resistant belt, 10' of skirtboard with rubber flashing, 71" track rigid axle with two (2) 10:00 x 20, 12 ply tires, lunette eye tongue, heavy gauge tool box, 10 HP, 1800 RPM, TEFC, electric motor drive.	Superior 31,147 ea	
	1	New Dings Model 44CR Continuous Belt Magnet with stainless steel discharge belt, 5 HP, 1800 RPM, TEFC, electric motor drive, and magnet transformer.	19,139 ea	
	1	New Superior 36" x 80' Portable Radial Stacking Conveyor. - Main frame 30" deep truss with 3" x 3" x 1/4" chord angles and lattice members of 1-1/2" x 1-1/2" x 3/16" with tapered head and tail sections. - Adjustable height undercarriage, manual raise with pin lock height adjustment. - Telescoping axle with single 10:00 x 20 tires with telescoping axle and swiveling wheels. - 25 HP head end drive Dodge TXT-515 shaft mount reducer, 1800 RPM, TEFC motor, v-belt drive, and drive guard. Drive designed for 600 TPH of 100#/CF of material at 300 FPM belt speed. - Drive pulley 16" dia. crown faced, herringbone lagged magnetic drum with cold rolled shaft. - Tail pulley 14" dia. crown faced, wing type pulley with cold rolled shaft. - Take-Ups screw type with 18" of travel. - Belting 2 ply, 1/8" x 1/16" covers, 220 PIW. - Belt splice Flexco mechanical steel fasteners. - Troughing Idlers - CEMA B, Superior 605 series, 5" dia. rolls, 35° trough, sealed for life ball bearings, placed 16" on center under loading area, 4' on center on balance of conveyor. - Return idlers - CEMA B, Superior 605 series, 5" dia. rolls, sealed for life ball bearings, placed 10' on center.		

LINDER INDUSTRIAL MACHINERY COMPANY
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ITEM NO	QUANTITY	ARTICLES AND DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
		- Guarding - Tail pulley shield, v-belt drive guard, pinch points and nip guards on drive pulley. - Paint - Unit to be one (1) coat primer and one (1) coat enamel painted Superior ~~Orange~~. Gray - Pivot type belt scraper with counterweight tensioning. - Towing eye for field transport. - Anchor pivot plate maintains tail end during radial travel. - Backstop for TXT-515 reducer. - Radial receiving hopper, 5' long with adjustable rubber flashing. - Fifth wheel hitch for road travel.	25,038 ea	
	1	New Superior 24" x 80' Portable Radial Stacking Conveyor. Picking Stations - Main frame, 24" deep truss with 2-1/2" x 2-1/2" x 1/4" chord angles and lattice members of 1-1/2" x 1-1/2" x 3/16" with tapered head and tail sections and extra chord angle full length from tail end to head end and undercarriage pinning point. - Adjustable height under carraige - manual raise with pin lock height adjustment. - Telescoping axle, with single 10:00 x 20 tires with telescoping axle and swiveling wheels. - 15 HP head end drive, Dodge TXT-415 shaft mount reducer, 1800 RPM, TEFC motor, v-belt drive, and drive guard. Drive designed for 300 TPH of 100#/CF of material at 300 FPM belt speed. - Drive pulley 16" dia. crowned faced, herringbone lagged drum with cold rolled shaft. - Tail pulley 14" dia. crown faced, wing type pulley with cold rolled shaft. - Take-ups screw type with 18" of travel. - Belting 2 ply, 1/8" x 1/16" covers, 220 PIW. - Belt splice Flexco mechanical steel fasteners. - Troughing idlers - CEMA B, Superior 605 series, 5" dia. rolls, 35° trough, sealed for life ball bearings, placed 16" on center under loading area, 4' on center on balance of conveyor. - Return idlers - CEMA B, Superior 605 series, 5" dia. rolls, sealed for life ball bearings, placed 10' on center. - Guarding - Tail pulley shield, v-belt drive guard, pinch points and nip guards on drive pulley. - Paint - Unit to be one (1) coat primer and one (1) coat finish enamel painted Superior Orange. - Pivot type belt scraper with counterweight tensioning.		

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ITEM NO	QUANTITY	ARTICLES AND DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
		- Towing eye - for field transport. - Anchor pivot plate - maintains tail end during radial travel. - Backstop - for TXT-415 reducer. - Radial receiving hopper, 5' long with adjustable rubber flashing. - Fifth wheel hitch, for road travel.	21,398 ea	
	3	New Superior 24" x 60' Portable Radial Stacking Conveyors. - Main frame, 24" deep truss with 2-1/2" x 2-1/2" x 1/4" chord angles and lattice members of 1-1/2" x 1-1/2" x 3/16" with tapered head and tail sections. - Adjustable height under carraige - manual raise with pin lock height adjustment. - Telescoping axle, with single 10:00 x 20 tires with telescoping axle and swiveling wheels. - 10 HP head end drive, Dodge TXT-315 shaft mount reducer, 1800 RPM, TEFC motor, v-belt drive, and drive guard. Drive designed for 300 TPH of 100#/CF of material at 300 FPM belt speed. - Drive pulley 16" dia. crowned faced, herring-bone lagged drum with cold rolled shaft. - Tail pulley 14" dia. crown faced, wing type pulley with cold rolled shaft. - Take-ups screw type with 18" of travel. - Belting 2 ply, 1/8" x 1/16" covers, 220 PIW. - Belt splice Flexco mechanical steel fasteners. - Troughing idlers - CEMA B, Superior 605 series, 5" dia. rolls, 35° trough, sealed for life ball bearings, placed 16" on center under loading area, 4' on center on balance of conveyor. - Return idlers - CEMA B, Superior 605 series, 5" dia. rolls, sealed for life ball bearings, placed 10' on center. - Gathering Hopper, 5' long with adjustable rubber flashing. - Guarding - Tail pulley shield, v-belt drive guard, pinch points and nip guards on drive pulley. - Paint - Unit to be one (1) coat primer and one (1) coat finish enamel painted Superior Orange. - Pivot type belt scraper with counterweight tensioning. - Towing eye - for field transport. - Anchor pivot plate - maintains tail end during radial travel. - Backstop - for TXT-315 reducer. - Radial receiving hopper. - Fifth wheel hitch, for road travel.	15,858 ea	