

Independence Excavating

775019-051

April 5, 1995

RECEIVED

APR 11 1995

Bureau of  
Air Regulation

**The Department of Environmental  
Protection  
Bureau Of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400**

REF: Proof of publication the Tampa Tribune - 3/30/95 notice  
of intent - permit #AC - 29-256368 and #AC - 29-256369.

Please find copies of the above proof notices enclosed.

Very truly yours,

  
Leonard N. Byrd, Sr.  
Florida Region Manager

cc: Vic DiGeronimo, Jr.

CC: SW District  
EPCHC  
G. Simm, P.E.

Permit # AC 29-256369

# THE TAMPA TRIBUNE

Published Daily

Tampa, Hillsborough County, Florida

State of Florida

County of Hillsborough } ss.

Before the undersigned authority personally appeared R. Putney, who on oath says that he is Accounting Manager of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the attached copy of advertisement being a

## LEGAL NOTICE NORTH TAMPA, UPPER TAMPA BAY, UNIVERSITY

in the matter of

STATE OF FLORIDA

was published in said newspaper in the issues of

MARCH 30, 1995

Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm, or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

*R. Putney*

Sworn to and subscribed before me, this 30 day of MARCH, A.D. 19 95

Personally Known \_\_\_\_\_ or Produced Identification \_\_\_\_\_

Type of Identification Produced \_\_\_\_\_

(SEAL)

*Ima S Kennedy*

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:  
Department of Environmental Protection  
Bureau of Air Regulation  
111 S. Magnolia Park  
Tallahassee, Florida 32301  
Department of Environmental Protection  
Southwest District  
8407 Laurel Fair Circle  
Tampa, Florida 33619  
Environmental Protection Commission  
of Hillsborough County  
1900 Ninth Avenue  
Tampa, Florida 33605

Any person may send written comments on the proposed action to Mr. Al Liner at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

2241

3/30/95

STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION  
NOTICE OF  
INTENT TO ISSUE PERMIT  
AC 29-256369

The Department of Environmental Protection gives notice of its intent to issue a construction permit to Independence Excavating, Inc., 730 Roosevelt Plaza, Tampa, Florida 33605, for a 150 tons/hour secondary asphaltic concrete crushing unit equipped with a 320 H.P. diesel engine and a 270 H.P. diesel generator set, located at 6311 East Sligh Avenue, Tampa, Hillsborough County, Florida. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this intent to issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CERTIFIED MAIL

In the Matter of an  
Application for Permit by:

DEP File No. AC 29-256369/  
Hillsborough County

Mr. Vic DiGeranimo  
Independence Excavating  
730 Roosevelt Plaza  
Tampa Port Authority  
Tampa, Florida 33605

---

INTENT TO ISSUE

The Department of Environmental Protection gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Independence Excavating, Inc., submitted a complete application on December 13, 1994, to the Department of Environmental Protection for an after-the-fact construction permit for a portable 150 tons/hour secondary asphaltic concrete crushing unit powered by a 320 H.P. diesel engine along with a 270 H.P. diesel engine generator set, located at 6311 East Sligh Avenue, Hillsborough County, Florida.

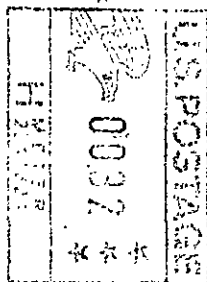
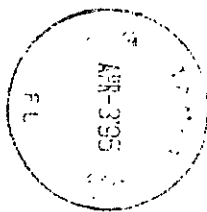
The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-212 and 62-4. The project is not exempt from permitting procedures. The Department has determined that a construction permit is required for the proposed work.

Pursuant to Section 403.815, F.S., and Rule 62-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time only within 30 days in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

THE TRIBUNE COMPANY  
P.O. BOX 191 TAMPA, FLORIDA 33601

# ADVERTISER'S PROOF SHEETS

55620  
INDEPENDENCE EXCAVATING INC.  
730 ROOSEVELT ST.  
CONCRETE RECYCLING  
TAMPA PORT AUTHORITY  
TAMPA FL 33605





# Department of Environmental Protection

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

January 25, 1995

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Vic DiGeranimo  
Independence Excavating, Inc.  
730 Roosevelt Plaza  
Tampa Port Authority  
Tampa, Florida 33605

Dear Mr. DiGeranimo:

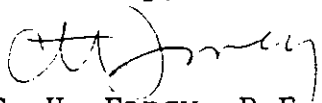
Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed statewide permits to Independence Excavating, Inc. for two portable secondary asphaltic concrete crushing units as indicated below:

UNIT A - Tampa Port Authority Site  
UNIT B - Sarasota County Site

Please publish the attached "Notice of Intent to Issue" in the legal ad section of a newspaper of general circulation in the areas affected and submit the proofs of publication to the Department within seven days of publication, along with any written comments you wish to have considered concerning the Department's proposed action, to Mr. A. A. Linero of the Bureau of Air Regulation.

If you have any questions regarding this matter, please contact Mr. John Reynolds at (904) 488-1344.

Sincerely,

  
C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

CHF/JR/bjb

Attachments

cc: B. Thomas, SWD  
J. Campbell, EPCHC  
K. Kimes, Sarasota Co.  
G. Sinn, P.E.

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:  
**Mr. Vic DiGeranimo**  
**Independence Excavating**  
**130 Roosevelt Plaza**  
**Tampa Port Authority**  
**Tampa, FL 33605**

4a. Article Number  
**Z 751 860 023**

4b. Service Type  
☐ Registered ☐ Insured  
☒ Certified ☐ COD  
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery  
**2-3-95**

5. Signature (Addressee)

6. Signature (Agent)  
*[Signature]*

8. Addressee's Address (Only if requested and fee is paid)

1. also wish to receive the following services (for an extra fee):  
 1. ☐ Addressee's Address  
 2. ☐ Restricted Delivery  
 Consult postmaster for fee.

Is your RETURN ADDRESS completed on the reverse side?

PS Form 3811, December 1991 U.S. GPO: 1992-323-402 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

Z 751 860 023



**Receipt for  
Certified Mail**

No Insurance Coverage Provided  
 Do not use for International Mail  
 (See Reverse)

PS Form 3800, March 1993

Sent to	<b>Vic DiGeranimo</b>
Street and No.	<b>Independence Excavating</b>
P.O., State and ZIP Code	<b>Tampa, FL 33605</b>
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	<b>2-1-95</b>
	<b>AC 29-256368</b>
	<b>AC 29-256369</b>

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NOTICE OF INTENT TO ISSUE PERMIT

AC 29-256368

The Department of Environmental Protection gives notice of its intent to issue a construction permit to Independence Excavating, Inc., 730 Roosevelt Plaza, Tampa, Florida 33605, for a 150 tons/hour secondary asphaltic concrete crushing unit equipped with a 320 H.P. diesel engine and a 270 H.P. diesel generator set, located at 730 Roosevelt Plaza, Tampa Port Authority, Tampa, Hillsborough County, Florida. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and, (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Protection  
Bureau of Air Regulation  
111 S. Magnolia Park Courtyard, MS 5505  
Tallahassee, Florida 32301

Department of Environmental Protection  
Southwest District  
8407 Laurel Fair Circle  
Tampa, Florida 33619

Environmental Protection Commission  
of Hillsborough County  
1900 Ninth Avenue  
Tampa, Florida 33605

Any person may send written comments on the proposed action to Mr. Al Linero at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NOTICE OF INTENT TO ISSUE PERMIT

AC 29-256369

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A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

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Department of Environmental Protection  
Bureau of Air Regulation  
111 S. Magnolia Park Courtyard, MS 5505  
Tallahassee, Florida 32301

Department of Environmental Protection  
Southwest District  
8407 Laurel Fair Circle  
Tampa, Florida 33619

Sarasota County Natural Resources Department  
Pollution Control  
1301 Cattlemen Road, Building A  
Sarasota, Florida 34232

Any person may send written comments on the proposed action to Mr. Al Linero at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CERTIFIED MAIL

In the Matter of an  
Application for Permit by:

DEP File No. AC 29-256368  
Hillsborough County

Mr. Vic DiGeranimo  
Independence Excavating  
730 Roosevelt Plaza  
Tampa Port Authority  
Tampa, Florida 33605

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The Department of Environmental Protection gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Independence Excavating, Inc., submitted a complete application on December 13, 1994, to the Department of Environmental Protection for an after-the-fact construction permit for a portable 150 tons/hour secondary asphaltic concrete crushing unit powered by a 320 H.P. diesel engine along with a 270 H.P. diesel engine generator set, located at 730 Roosevelt Plaza, Tampa Port Authority, Tampa, Hillsborough County, Florida.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-212 and 62-4. The project is not exempt from permitting procedures. The Department has determined that a construction permit is required for the proposed work.

Pursuant to Section 403.815, F.S., and Rule 62-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time only within 30 days in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of their receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

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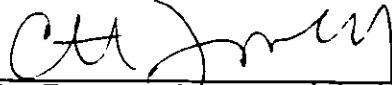
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Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



C. H. Fancy, P.E., Chief  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399  
904-488-1344

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy clerk hereby certifies that this INTENT TO ISSUE and all copies were mailed by certified mail before the close of business on 2/1/95 to the listed persons.

Clerk Stamp

**FILING AND ACKNOWLEDGMENT**

FILED, on this date, pursuant to §120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

  
Clerk

2/1/95  
Date

Copies furnished to:

B. Thomas, SWD  
J. Campbell, EPCHC  
K. Kimes, Sarasota Co.  
G. Sinn, P.E.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CERTIFIED MAIL

In the Matter of an  
Application for Permit by:

DEP File No. AC 29-256369  
Sarasota County

Mr. Vic DiGeranimo  
Independence Excavating  
730 Roosevelt Plaza  
Tampa Port Authority  
Tampa, Florida 33605

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The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-212 and 62-4. The project is not exempt from permitting procedures. The Department has determined that a construction permit is required for the proposed work.

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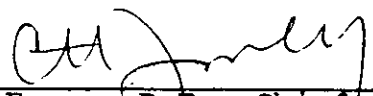
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Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
C. H. Fancy, P.E., Chief  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399  
904-488-1344


**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy clerk hereby certifies that this INTENT TO ISSUE and all copies were mailed by certified mail before the close of business on 2/1/95 to the listed persons.

Clerk Stamp

**FILING AND ACKNOWLEDGMENT**

FILED, on this date, pursuant to §120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

 2/1/95  
Clerk Date

Copies furnished to:

B. Thomas, SWD  
J. Campbell, EPCHC  
K. Kimes, Sarasota Co.  
G. Sinn, P.E.

Technical Evaluation  
and  
Preliminary Determination

Independence Excavating, Inc.

Two Portable 150 Ton/Hour Secondary Asphaltic  
Concrete Crushing Units (A & B)

Permit Numbers: AC 29-256368 (Unit A)  
AC 29-256369 (Unit B)

Florida Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation

January 10, 1995

## I. General Information

### A. Applicant

Independence Excavating, Inc.  
730 Roosevelt Plaza  
Tampa, Florida 33605

### B. Project and Location

The applicant submitted two complete after-the-fact construction permit applications on December 13, 1994, for two portable 150 ton/hour secondary asphaltic concrete crushing units; one to be located at a repaving site on Interstate 75 in Sarasota County and the other at the existing Tampa Port Authority site. Since these are portable plants, the applicant is applying to operate anywhere within the State of Florida.

### C. Facility Category

Although the applicant's portable units are minor in accordance with Rule 62-296.200 of the Florida Administrative Code (F.A.C.), the construction permit applications are being processed by the Bureau of Air Regulation (BAR) office in Tallahassee since the applicant would like to operate this plant statewide. The crushing and stockpiling of reclaimed asphalt and concrete material is a multiple source of fugitive particulate emissions.

The Standard Industrial Classification (SIC) Code is Industry No. 1611, Highway and Street Construction, except elevated highways. The NEDs Source Classification Code (SCC) is 3-05-010-10, Material Handling and Crushing.

## II. Project Description

The applicant's operations involve screening, crushing and stockpiling of reclaimed asphalt and concrete material that has been scalped from highways. This material is brought to the site and stockpiled for crushing. This stockpiled material is then crushed, sized in a vibrating feeder, screened, and conveyed for stockpiling. Each unit is designed for a maximum process input rate of 150 tons/hour of asphalt/concrete material. Power for the operation is provided by a 270 H.P. generator set fired on No. 2 fuel oil with a maximum of 1.0% sulfur by weight. The crusher motor is powered by a 320 H.P. diesel engine fired on the same fuel.

The expected emissions from this source will be fugitive particulates (dust) generated from the crushing, screening, transferring and storage operations. Fugitive emissions as well as emissions of particulates from the diesel engines, including SO<sub>2</sub>, CO, HC, and NO<sub>x</sub> will be less than the Prevention of Significant Deterioration (PSD) levels.

Fugitive emissions from the screening and crushing equipment will be controlled by a water spray system while those from the traffic areas and stockpiles will be controlled by a water sprinkler system.

### III. Rule Applicability

The application is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapters 62-210, 212, 272, 275, 296, and 297, Florida Administrative Code (F.A.C.). The applicant's facilities are currently located in Hillsborough and Sarasota Counties. Hillsborough County is designated as unclassifiable for PM<sub>10</sub> and SO<sub>2</sub>; nonattainment for ozone; and attainment for other criteria air pollutants. Sarasota County is designated as attainment for all regulated air pollutants. These facilities may also be operated in other areas within the State of Florida, provided that the specific conditions of the proposed permit are complied with.

These facilities are minor sources because emissions of any single pollutant is less than 100 TPY (Rule 62-210, F.A.C.). The proposed facility is not subject to the preconstruction review requirements of Rule 62-212.400 or Rule 62-212.500, F.A.C., because permit restrictions will prohibit these units from emitting 100 TPY of any pollutant. These sources are subject to Rule 62-212.300, F.A.C., Sources Not Subject to PSD or Nonattainment Requirements; Rule 62-296.310(2), F.A.C., General V.E. Standards; Rule 62-296.711, F.A.C., Materials Handling, Sizing, Screening, Crushing and Grinding, Operations; Rule 62-296.310(3), F.A.C., Reasonable Precautions; and 40 CFR 60, Subpart OOO, Nonmetallic Mineral Processing (federal New Source Performance Standard).

The applicant proposes to meet a particulate standard of less than 5% opacity for the crushing, screening and stockpiling operation and less than 20% opacity for the diesel engine exhausts. The proposed 5% opacity standard is more stringent than the new source performance standard specified in 40 CFR 60.672 (15% opacity).

### IV. Source Impact Analysis

#### A. Emission Limitations

For emission inventory purposes, the maximum emissions from each unit shall not exceed the following:

<u>Pollutant</u>	<u>lbs/hr</u>	<u>tons/yr</u>
Particulates	6.21	9.69
SO <sub>2</sub>	0.12	0.19
CO	3.19	6.13
HC	1.48	2.31
NO <sub>x</sub>	18.21	28.41

Visible emissions from these units shall be less than 5% opacity, except that the No. 2 fuel oil-fired diesel engine emissions shall not exceed 20% opacity.

If either unit is not able to achieve the 5% opacity limit, the Department may require that additional particulate control devices be installed.

#### B. Air Quality Impacts

Based on the technical review of the application, the Department has determined that the after-the-fact construction and operation of these units will not have a detrimental impact on Florida's ambient air quality.

#### V. Conclusion

Based on the information provided by Independence Excavating, Inc., the Department has reasonable assurance that the after-the-fact construction permits described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of the applicable rules under the Florida Administrative Code.

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If either unit is not able to achieve the 5% opacity limit, the Department may require that additional particulate control devices be installed.

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Based on the technical review of the application, the Department has determined that the after-the-fact construction and operation of these units will not have a detrimental impact on Florida's ambient air quality.

#### V. Conclusion

Based on the information provided by Independence Excavating, Inc., the Department has reasonable assurance that the after-the-fact construction permits described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of the applicable rules under the Florida Administrative Code.





# Department of Environmental Protection

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

**PERMITTEE:**  
**Independence Excavating, Inc.**  
**730 Roosevelt Plaza**  
**Tampa, Florida 33605**

**Permit Number: AC 29-256368**  
**Expiration Date: Dec. 31, 1995**  
**County: Statewide**  
**Project: Reclaimed Asphalt**  
**Unit A**

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-210, 212, 272, 275, 276, and 297, Florida Administrative Code (F.A.C.). The above named permittee is hereby authorized to perform the work or operate the emission unit shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department of Environmental Protection (Department) and specifically described as follows:

For an after-the-fact construction permit for a portable secondary asphaltic concrete crushing unit consisting of a 150 ton/hour Hazmag crushing unit powered by a 320 H.P. diesel engine. Also included is a 270 H.P. diesel generator set to supply electrical power to conveyors and other equipment.

Particulate emissions generated from the crushing, screening and stockpiling operations are controlled by a water spray system. If the water spray system does not meet the requirements specified herein, the Department may require the applicant to install additional particulate control devices or control measures.

The facility is currently located at 730 Roosevelt Plaza, Tampa Port Authority, Tampa, Hillsborough County, Florida. The UTM coordinates are Zone 17, 358.2 km East and 3091.9 km North.

The facility may operate throughout the State of Florida after completing the requirements of Specific Condition No. 6.

Completion of construction of this source shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application received on August 22, 1994.
2. DEP's letter dated September 12, 1994.
3. Applicant's response received December 13, 1994.

**PERMITTEE:**  
Independence Excavating, Inc.

**Permit Number:** AC 29-256368  
**Expiration Date:** Dec. 31, 1995

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of

**PERMITTEE:**  
Independence Excavating, Inc.

**Permit Number:** AC 29-256368  
**Expiration Date:** Dec. 31, 1995

**GENERAL CONDITIONS:**

credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and F.S. after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

**PERMITTEE:**  
**Independence Excavating, Inc.**

**Permit Number: AC 29-256368**  
**Expiration Date: Dec. 31, 1995**

**GENERAL CONDITIONS:**

11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- (X) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
  - the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.

**PERMITTEE:**  
**Independence Excavating, Inc.**

**Permit Number: AC 29-256368**  
**Expiration Date: Dec. 31, 1995**

**GENERAL CONDITIONS:**

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

**SPECIFIC CONDITIONS:**

1. Pursuant to Rule 62-212.200(56), F.A.C., this source (Unit A) shall be allowed to operate up to 10 hours per day, 6 days per week and 52 weeks per year (2,080 total hrs/yr) at a maximum production rate of 150 tons of crushed material per hour.

2. Pursuant to Rule 62-296.800, F.A.C., and 40 CFR 60, Subpart 000, visible emissions from the crushing, screening, and stockpiling operations shall be less than 5% opacity.

3. Pursuant to Rule 62-296.310(2), F.A.C., visible emissions from the crusher diesel engine and the diesel generator shall be less than 20% opacity and fired with No. 2 fuel oil containing no more than 1.0% sulfur by weight.

4. Compliance with Specific Conditions Nos. 3 and 4 shall be demonstrated using EPA Reference Method 9. Pursuant to 40 CFR 60.11, visible emissions tests shall be conducted for a minimum total time of three hours (30 six-minute averages). Such tests shall be conducted within 45 days of completion of construction and initial operation at this site and annually thereafter, provided the unit operates at this site for a year or more. Each time this plant moves to another site, a visible emissions test shall be conducted within 15 days of any such move and annually thereafter, provided the unit operates at the new site for a year or more. The minimum requirements for stack sampling facilities, source sampling and reporting shall be in accordance with the requirements of Rule 62-297, F.A.C., and 40 CFR 60, Subpart 000. The water spray flow rate at which compliance with the 5% visible emission standard is demonstrated shall be incorporated into the operation permit.

5. Prior to any compliance testing, the permittee shall notify the appropriate state and local agencies (Southwest District, Environmental Protection Commission of Hillsborough County, Sarasota County Natural Resources Department, etc.), in accordance with Rule 62-297.340, F.A.C.

**PERMITTEE:**  
**Independence Excavating, Inc.**

**Permit Number: AC 29-256368**  
**Expiration Date: Dec. 31, 1995**

**SPECIFIC CONDITIONS:**

5. This unit shall be allowed to operate throughout the State of Florida provided:

- (a) The permittee obtains a "Notice of Intent to Issue" for each new location (other than the current site), from the Department's Bureau of Air Regulation for publication in the legal ad section of a newspaper of general circulation in the area affected, in accordance with Rule 62-210.350. The permittee shall provide a certified copy of proof of publication to the applicable Department district office and local air program and to the Department's Bureau of Air Regulation within seven days of publication.
- (b) After the 14 day comment period has expired and if an administrative hearing has not been requested, the permittee shall obtain an amendment to the operating permit identifying the new location and the duration of operation prior to beginning operation at the new location.
- (c) The unit is operated in a location or in a manner that does not create a nuisance, as defined in Chapter 84-446, Section 3(12), F.S.

7. Pursuant to Rule 62-296.320, F.A.C., no objectionable odor from this facility shall be allowed.

8. Pursuant to Rule 62-296.310(3), F.A.C., the unconfined emissions of particulate matter shall comply with the following:

- (a) Keep unpaved roads, parking areas and yards moist at all times by applying water/dust suppressant as necessary.
- (b) Remove particulate matter from paved roads and maintain as necessary.
- (c) Maintain emission points as enclosed as possible and vent through an appropriate air pollution control device, if necessary, to meet the applicable emission standards.
- (d) Maintain material drop points as low as possible, primarily during windy conditions. Stop operation if necessary.
- (e) Maintain vehicular speed at a maximum of 10 mph. Post signs, where applicable.
- (f) Plant vegetation or landscape on nontrafficked areas, where applicable.

9. Minimize emissions at all times in a manner consistent with good air pollution control practice as referenced in 40 CFR 60.11(d), including periods of startup, shut down, and malfunction.

10. Pursuant to Rule 62-4.090, F.A.C., the permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit.

**PERMITTEE:**  
**Independence Excavating, Inc.**

**Permit Number: AC 29-256368**  
**Expiration Date: Dec. 31, 1995**

**SPECIFIC CONDITIONS:**

11. Pursuant to Rules 62-4.055 and 62-4.220, F.A.C., an application for an operation permit must be submitted to the Bureau of Air Regulation office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit.

Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1995

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION**

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Howard L. Rhodes, Director  
Division of Air Resources  
Management



# Department of Environmental Protection

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

**PERMITTEE:**  
**Independence Excavating, Inc.**  
**730 Roosevelt Plaza**  
**Tampa, Florida 33605**

**Permit Number: AC 29-256369**  
**Expiration Date: Dec. 31, 1995**  
**County: Statewide**  
**Project: Reclaimed Asphalt**  
**Unit B**

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-210, 212, 272, 275, 276, and 297, Florida Administrative Code (F.A.C.). The above named permittee is hereby authorized to perform the work or operate the emission unit shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department of Environmental Protection (Department) and specifically described as follows:

For an after-the-fact construction permit for a portable secondary asphaltic concrete crushing unit consisting of a 150 ton/hour Hazmag crushing unit powered by a 320 H.P. diesel engine. Also included is a 270 H.P. diesel generator set to supply electrical power to conveyors and other equipment.

Particulate emissions generated from the crushing, screening and stockpiling operations are controlled by a water spray system. If the water spray system does not meet the requirements specified herein, the Department may require the applicant to install additional particulate control devices or control measures.

The facility is currently located near Interstate 75 (0.8 mile South of S.R. 72), Osprey, Sarasota County, Florida. The UTM coordinates are Zone 17, 356.2 km East and 3015.8 km North.

The facility may operate throughout the State of Florida after completing the requirements of Specific Condition No. 6.

Completion of construction of this source shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application received on August 22, 1994.
2. DEP's letter dated September 12, 1994.
3. Applicant's response received December 13, 1994.

**PERMITTEE:**  
Independence Excavating, Inc.

**Permit Number:** AC 29-256369  
**Expiration Date:** Dec. 31, 1995

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of

**PERMITTEE:**  
Independence Excavating, Inc.

**Permit Number:** AC 29-256369  
**Expiration Date:** Dec. 31, 1995

**GENERAL CONDITIONS:**

credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and F.S. after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

**PERMITTEE:**  
Independence Excavating, Inc.

**Permit Number:** AC 29-256369  
**Expiration Date:** Dec. 31, 1995

**GENERAL CONDITIONS:**

11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- (X) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
  - the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.

**PERMITTEE:**  
**Independence Excavating, Inc.**

**Permit Number: AC 29-256369**  
**Expiration Date: Dec. 31, 1995**

**GENERAL CONDITIONS:**

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

**SPECIFIC CONDITIONS:**

1. Pursuant to Rule 62-212.200(56), F.A.C., this source (Unit A) shall be allowed to operate up to 10 hours per day, 6 days per week and 52 weeks per year (2,080 total hrs/yr) at a maximum production rate of 150 tons of crushed material per hour.

2. Pursuant to Rule 62-296.800, F.A.C., and 40 CFR 60, Subpart 000, visible emissions from the crushing, screening, and stockpiling operations shall be less than 5% opacity.

3. Pursuant to Rule 62-296.310(2), F.A.C., visible emissions from the crusher diesel engine and the diesel generator shall be less than 20% opacity and fired with No. 2 fuel oil containing no more than 1.0% sulfur by weight.

4. Compliance with Specific Conditions Nos. 3 and 4 shall be demonstrated using EPA Reference Method 9. Pursuant to 40 CFR 60.11, visible emissions tests shall be conducted for a minimum total time of three hours (30 six-minute averages). Such tests shall be conducted within 45 days of completion of construction and initial operation at this site and annually thereafter, provided the unit operates at this site for a year or more. Each time this plant moves to another site, a visible emissions test shall be conducted within 15 days of any such move and annually thereafter, provided the unit operates at the new site for a year or more. The minimum requirements for stack sampling facilities, source sampling and reporting shall be in accordance with the requirements of Rule 62-297, F.A.C., and 40 CFR 60, Subpart 000. The water spray flow rate at which compliance with the 5% visible emission standard is demonstrated shall be incorporated into the operation permit.

5. Prior to any compliance testing, the permittee shall notify the appropriate state and local agencies (Southwest District, Environmental Protection Commission of Hillsborough County, Sarasota County Natural Resources Department, etc.), in accordance with Rule 62-297.340, F.A.C.

PERMITTEE:  
Independence Excavating, Inc.

Permit Number: AC 29-256369  
Expiration Date: Dec. 31, 1995

**SPECIFIC CONDITIONS:**

6. This unit shall be allowed to operate throughout the State of Florida provided:

- (a) The permittee obtains a "Notice of Intent to Issue" for each new location (other than the current site), from the Department's Bureau of Air Regulation for publication in the legal ad section of a newspaper of general circulation in the area affected, in accordance with Rule 62-210.350. The permittee shall provide a certified copy of proof of publication to the applicable Department district office and local air program and to the Department's Bureau of Air Regulation within seven days of publication.
- (b) After the 14 day comment period has expired and if an administrative hearing has not been requested, the permittee shall obtain an amendment to the operating permit identifying the new location and the duration of operation prior to beginning operation at the new location.
- (c) The unit is operated in a location or in a manner that does not create a nuisance, as defined in Chapter 84-446, Section 3(12), F.S.

7. Pursuant to Rule 62-296.320, F.A.C., no objectionable odor from this facility shall be allowed.

8. Pursuant to Rule 62-296.310(3), F.A.C., the unconfined emissions of particulate matter shall comply with the following:

- (a) Keep unpaved roads, parking areas and yards moist at all times by applying water/dust suppressant as necessary.
- (b) Remove particulate matter from paved roads and maintain as necessary.
- (c) Maintain emission points as enclosed as possible and vent through an appropriate air pollution control device, if necessary, to meet the applicable emission standards.
- (d) Maintain material drop points as low as possible, primarily during windy conditions. Stop operation if necessary.
- (e) Maintain vehicular speed at a maximum of 10 mph. Post signs, where applicable.
- (f) Plant vegetation or landscape on nontrafficked areas, where applicable.

9. Minimize emissions at all times in a manner consistent with good air pollution control practice as referenced in 40 CFR 60.11(d), including periods of startup, shut down, and malfunction.

10. Pursuant to Rule 62-4.090, F.A.C., the permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit.

**PERMITTEE:**  
Independence Excavating, Inc.

**Permit Number:** AC 29-256369  
**Expiration Date:** Dec. 31, 1995

**SPECIFIC CONDITIONS:**

11. Pursuant to Rules 62-4.055 and 62-4.220, F.A.C., an application for an operation permit must be submitted to the Bureau of Air Regulation office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit.

Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1995

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION**

---

Howard L. Rhodes, Director  
Division of Air Resources  
Management

**Memorandum**

**Florida Department of  
Environmental Protection**

---

TO: Clair Fancy  
THRU: A. A. Linero *aal* 1/25  
FROM: John Reynolds *JR*  
DATE: January 25, 1995  
SUBJ: Reclaimed Asphalt Crusher

These are Intents to Issue After-the-Fact construction permits to a couple of Reclaimed Asphalt Crushers in Sarasota and Hillsborough Counties. They are small sources of particulate matter and diesel engine exhaust.

Our main concern is visible emissions, for which they have proposed 5% opacity. The reason we handled the permit is because they want to be able to operate in various counties.

JR/kt



# Department of Environmental Protection

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

September 12, 1994

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Vic DiGeranimo  
Independence Excavating, Inc.  
730 Roosevelt Plaza  
Tampa Port Authority  
Tampa, Florida 33605

Dear Mr. DiGeranimo:

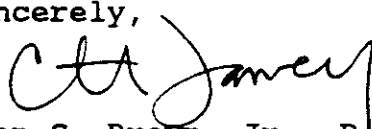
Re: DEP Permit Application Nos. AC29-256368 and AC29-256369  
for Portable Crushing Units A and B

This is to provide notice, pursuant to Rule 62-4.055(1) of the Florida Administrative Code, that additional information is required in order to process the above-mentioned permit applications. Upon receipt of the following information, the Department will continue processing these applications.

1. The applications state that Units A and B are existing units. Please explain why these units have not been permitted previously.
2. To establish applicability of the federal new source performance standards (40 CFR 60, Subpart 000) to these units, the date on which these units were constructed, reconstructed or modified, must be known (Subpart 000 applies to equipment that was constructed, reconstructed or modified after August 31, 1983).
3. The applications describe measures for controlling fugitive emissions from the processing operation but do not describe how fugitive emissions from the stockpiling areas will be controlled. Please explain.

If clarification is needed on any of the above items, please call John Reynolds of our staff at 904-488-1344.

Sincerely,

  
John C. Brown, Jr., P.E.  
Administrator  
Permitting and Standards

JCB/JR/bb

c: W. Thomas, SWD  
G. Sinn, Jr., P.E.

*G. Campbell, EPCMC*

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
**Mr. Vic DiGeranimo**  
**Independence Excavating, Inc.**  
**730 Roosevelt Plaza**  
**Tampa Port Authority**  
**Tampa, FL 33605**

4a. Article Number:  
**Z 751 859 979**

4b. Service Type

<input type="checkbox"/> Registered	<input type="checkbox"/> Insured
<input checked="" type="checkbox"/> Certified	<input type="checkbox"/> COD
<input type="checkbox"/> Express Mail	<input type="checkbox"/> Return Receipt for Merchandise

7. Date of Delivery  
**9-14-94**

5. Signature (Addressee)  
*[Signature]*

6. Signature (Agent)  
*[Signature]*

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 \*U.S. GPO: 1992-323-402 **DOMESTIC RETURN RECEIPT**

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

Z 751 859 979



**Receipt for  
Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

PS Form 3800, March 1993

Mr. Vic DeGeranimo	
730 Roosevelt Plaza	
Tampa, FL 33605	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date Mailed: 9-12-94 Permit: AC29-256368 AC29-256369	

INDEPENDENCE EXCAVATING, INC.  
PORTABLE HAZMAG CRUSHING UNIT A  
STATEWIDE  
FDEP CONSTR. PERMIT APPLICATION

Florida Department of Environmental Protection  
Tallahassee Office Building 2600 Blair Stone Road • Tallahassee, Florida 32399-2400  
**RECEIVED**

AC 29-256368

DEP Form #	
Form Title	
Effective Date	
DEP Application No.	(Filled in by DEP)

AUG 22 1994

STATEWIDE

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

#1,000 p.d.  
8-22-94  
Recpt. #224250

SOURCE TYPE: Bureau of Portable Secondary Crushing Unit [X]New<sup>1</sup> [ ]Existing<sup>1</sup>

APPLICATION TYPE: [X]Construction [ ]Operation [ ]Modification

COMPANY NAME: Independence Excavating, Inc. COUNTY: Hillsborough/  
Sarasota

Identify the specific emission point source(s) addressed in this application: 150 ton/hr  
Hazmag Crushing Unit (A) Serial # APSE1013 powered by a 320 H.P. Caterpillar - Model 3406  
diesel fired motor and a and a Caterpillar diesel fired 270 H.P., Model 3306 generator  
set used to supply electrical power to conveyors and etc.

SOURCE LOCATION: 730 Roosevelt Plaza, Tampa Port Authority/ Tampa/  
Street Interstate 75 (0.8 mile south of S.R.72) City Osprey

UTM: East 17-358.2 / 17-356.2 North 3091.9 / 3015.8

Latitude 27° 56' 45" N Longitude 82° 26' 28" W

APPLICANT NAME AND TITLE: Mr. Vic DiGeronimo, Jr., Owner

APPLICANT ADDRESS: 730 Roosevelt Plaza, Tampa Port Authority, Tampa, Florida 33605

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of Independence Excavating  
After-the-fact

I certify that the statements made in this application for a Construction  
permit are true, correct and complete to the best of my knowledge and belief. Further,  
I agree to maintain and operate the pollution control source and pollution control  
facilities in such a manner as to comply with the provision of Chapter 403, Florida  
Statutes, and all the rules and regulations of the department and revisions thereof. I  
also understand that a permit, if granted by the department, will be non-transferable  
and I will promptly notify the department upon sale or legal transfer of the permitted  
establishment.

\*Attach letter of authorization

Signed: [Signature]

Mr. Vic DiGeronimo, Owner  
Name and Title (Please Type)

Date: 8-11-94 Telephone No. (813) 247-4114

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have  
been designed/examined by me and found to be in conformity with modern engineering  
principles applicable to the treatment and disposal of pollutants characterized in the  
permit application. There is reasonable assurance, in my professional judgment, that

<sup>1</sup> See Florida Administrative Code Rule 17-210.200(14) and (31)

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed \_\_\_\_\_

Mr. George C. Sinn, Jr., P.E.

Name (Please Type)

Central Florida Testing Laboratories, Inc.

Company Name (Please Type)

1400 Starkey Road, Largo, Florida 34641

Mailing Address (Please Type)

Florida Registration No. 16911

Date:

8-9-94

Telephone No. (813) 581-7019

## SECTION II: GENERAL PROJECT INFORMATION

- A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of the installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

"SEE SUPPLEMENTAL PAGE NO. 1"

- B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction N/A Completion of Construction Already Constructed

- C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Water Induction System including spray bars to control emissions

and sheet metal enclosures to control emissions

~\$ 7,000.00

- D. Indicate any previous DEP permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None - New Source

## SUPPLEMENTAL INFORMATION PAGE No.1

### Section II. General Project Information

This project consists of an existing Portable Hazmag Secondary Crushing Unit, Serial # APSE1013 that was brought to Independence Excavating, Inc. - Tampa Port Authority Site to replace another Hazmag Crushing Unit currently employed at a repaving site on Interstate 75 in Sarasota County, Florida. The crushing unit that is now located in Sarasota County has been at the Tampa site periodically for the past two years. The unit now located at the Tampa Port Authority Site will be known as " Unit A " and will be relocated from the Tampa site to the Sarasota County Site on a as needed basis. This crushing plant is utilized to crush and stockpile reclaimed asphalt and concrete material for retail sale at the Tampa site and crush reclaimed asphalt and concrete for reuse in asphaltic concrete mixes at the Sarasota County site. This crushing plant ("Unit A") crushes , screens, and stockpiles asphalt and concrete material at a maximum of 150 tons per hour. This crushing unit will utilize water introduced through spray bar systems, moistening the reclaimed material to be crushed and moistening crushed material drop and transfer points to control the emissions generated during feeding, crushing, screening, and the conveying process. The water spray bar system will be adjusted accordingly to control emissions with water pressure varying from 10 to 40 gallons per minute. This facility will comply with all FDEP/HCEPC/SCESD rules and regulations.

E. Requested permitted equipment operating time: hrs/day 0-10 ; days/wk 0-6 ; wks/yr 52  
if power plant, hrs/yr 2,080 if seasonal, describe: This facility is not seasonal  
but is weather dependent. Normal Daily Operating Hours: 7:00 a.m. to 5:00 p.m.

F. If this is a new source or major modification, answer the following questions.  
(Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? Yes
    - a. If yes, has "offset" been applied? No
    - b. If yes, has "Lowest Achievable Emission Rate" been applied? No
    - c. If yes, list non-attainment pollutants. Particulate and Ozone
  2. Does best available control technology (BACT) apply to this source?  
If yes, see Section VI. No
  3. Does the "Prevention of Significant Deterioration" (PSD)  
requirement apply to this source? If yes, see Sections VI and VII. No
  4. Do "Standards of Performance for New Stationary Sources" (NSPS)  
apply to this source? Yes
  5. Do "National Emission Standards for Hazardous Air Pollutants"  
(NESHAP) apply to this source? No
- H. Do "Reasonably Available Control Technology" (RACT) requirements apply  
to this source? Yes
- a. If yes, for what pollutants? Particulate
  - b. If yes, in addition to the information required in this form,  
any information requested in Rule 17.296.500 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justifi-  
cation for any answer of "No" that might be considered questionable.

### SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

#### A. Raw Materials and Chemicals Used in your Process, if applicable:

Description	Contaminants		Utilization Rate lbs/hr	Relate to Flow Diagram
	Type	% Wt.		
Reclaimed Asphalt Pavement or Reclaimed Concrete	Particulate -200 mesh	2.0	300,000	A

#### B. Process Rate, if applicable: (See Section V, Item 1)

1. Total Process Input Rate (lbs/hr): 150 ton/hr as reclaimed asphalt or concrete materia
2. Product Weight (lbs/hr): 150 ton/hr as recycled asphalt or concrete pavement

#### C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary) \* Emissions include fugitives and gaseous emissions from diesel engine operation.

Name of Contaminant	Emission <sup>1</sup>		Allowed <sup>2</sup> Emission Rate per Rule 17-296	Allowable <sup>2</sup> Emission lbs/hr	Potential <sup>3</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Particulate	6.21	9.69	Visible Emissions	<5% Opacity Crusher &	6.21	9.69	A, C, J, I
Sulfur Oxides	0.121	0.19		Emission Points	0.121	0.19	K, L
Carbon Oxides	3.19	6.13		<20% Opacity -	3.19	6.13	K, L
Hydrocarbons	1.48	2.31		Diesel Engine	1.48	2.31	K, L
Nitrogen Oxides	18.21	28.41		Exhausts	18.21	28.41	K, L

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference applicable emission standards and units (e.g. Rule 17-296.405(2)(b), - 0.1 pounds per million BTU heat input)

<sup>3</sup>Calculated from operating rate and applicable standard.

<sup>4</sup>Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (if applicable)	Basis for Efficiency (Section V Item 5)
Induction of Water through spray bars on various emission points and metal sheeting enclosures	Particulate	85.0%	+1.0 Micron	AP-42, Design and Test Data

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max/hr	
No.2 virgin diesel fuel with 1.0% sulfur limit to 270 H.P. Generator Set	12.8 gal/hr	13.3 gal/hr	1.86 MMBTU/hr
No.2 virgin diesel fuel as with a 1.0% sulfur limit to fire 320 H.P. Crusher Motor	14.0 gal/hr	15.8 gal/hr	2.20 MMBTU/hr

\*Units: Natural Gas - MMBTU/hr; Fuel Oils - gallons/hr; Coal, wood, refuse, other - lbs/hr.

Fuel Analysis: No.2 Fuel Oil

Percent Sulfur: <1.0 % Percent Ash: 0.3%  
 Density: 8.012 lbs/gal Typical Percent Nitrogen: Neg. / Neg.  
 Heat Capacity: BTU/lb; 135,000 BTU/gal N/A BTU/ft<sup>3</sup>  
 Other Fuel Contaminants (which may cause air pollution): NONE

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average NOT APPLICABLE Maximum NOT APPLICABLE

G. Indicate liquid or solid wastes generated and method of disposal.

No liquid or solid wastes generated from this process. Water spray bars utilized at  
 emission points, material sprayed, water absorbed by product to eliminate dust.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):  
 (\* SEE PAGE 1 of 6 - Calculation of Emissions Sheets)

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ ft.  
 Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM Gas Exit Temperature: \_\_\_\_\_ °F.  
 Water Vapor Content: \_\_\_\_\_ % Velocity: \_\_\_\_\_ FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (PLASTICS)	Type I (RUBBISH)	Type II (REFUSE)	Type III (GARBAGE)	Type IV (PATHOLOGICAL)	Type V (LIQUID & GAS BY-PROD)	Type VI (SOLID BY PRODUCT)
Actual lb/hr incinerated							
Uncontrolled (lbs/hr)							

Description of Waste \_\_\_\_\_  
 Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_  
 Approximate Number of Hours of Operation per day \_\_\_\_\_ days/wk \_\_\_\_\_ wks/yr \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

	Volume (ft <sup>3</sup> )	Heat Release (Btu/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ Stack Temperature: \_\_\_\_\_  
 Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity: \_\_\_\_\_ FPS

\*If 50 or more tons per day design capacity, submit the emission rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: ☐ Cyclone ☐ Wet Scrubber ☐ Afterburner  
☐ Other (specify) \_\_\_\_\_

Brief description of operating characteristics of control devices: \_\_\_\_\_

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

#### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight - show derivation [Rule 17-212.200(41)]
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

INDEPENDENCE EXCAVATING, INC.  
SUPPLEMENTAL INFORMATION  
FDEP CONSTRUCTION PERMIT APPLICATION  
HAZMAG CRUSHING UNIT " A "

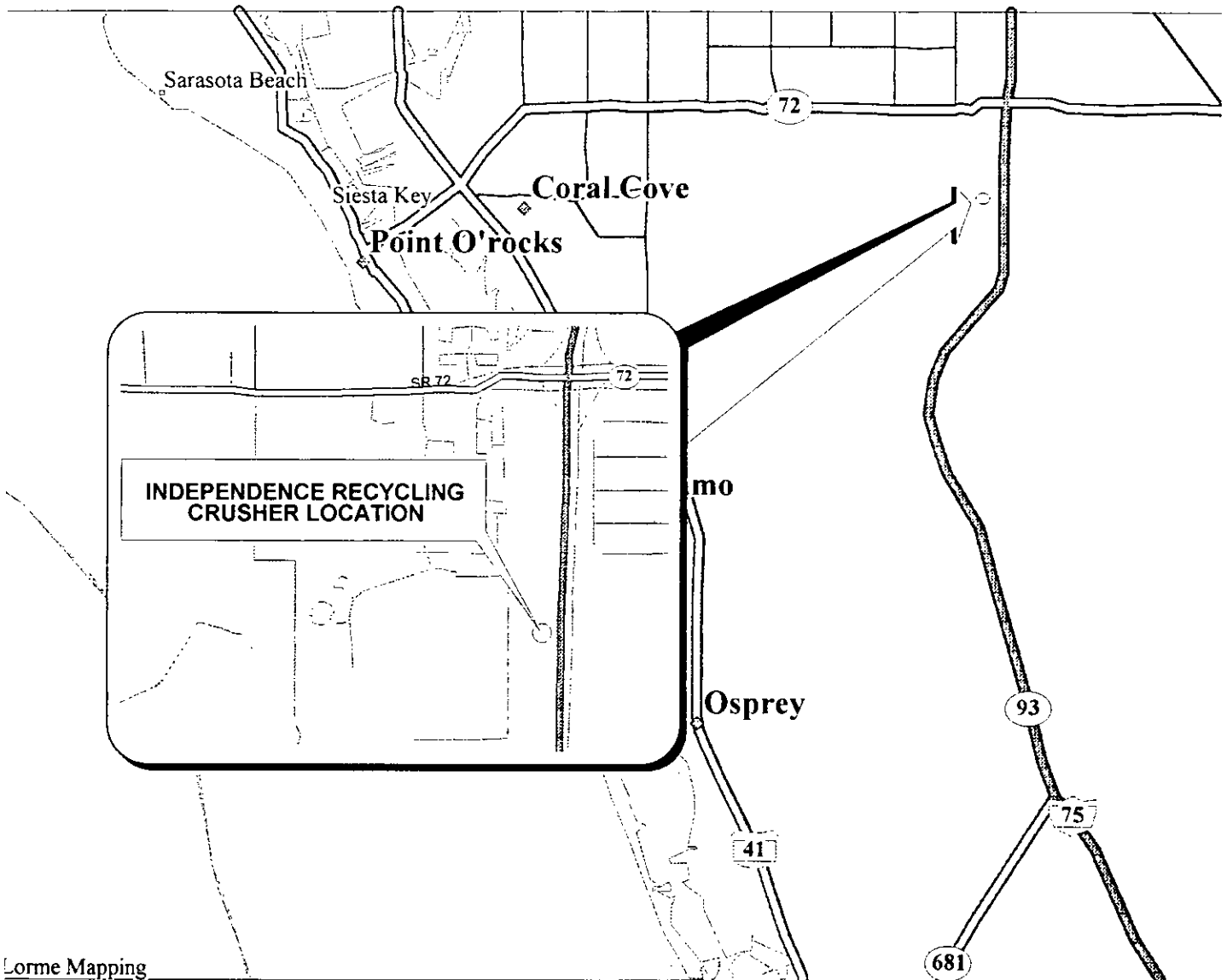
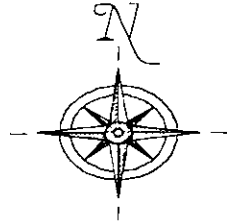
TABLE OF CONTENTS

- I. PLANT LOCATION
- II. SITE PLAN
- III. PROCESS DESCRIPTION
- IV. FLOW DIAGRAM
- V. CALCULATIONS OF EMISSIONS
- VI. FUEL ANALYSIS

I. PLANT LOCATIONS

# INDEPENDENCE RECYCLING

## Facility Location



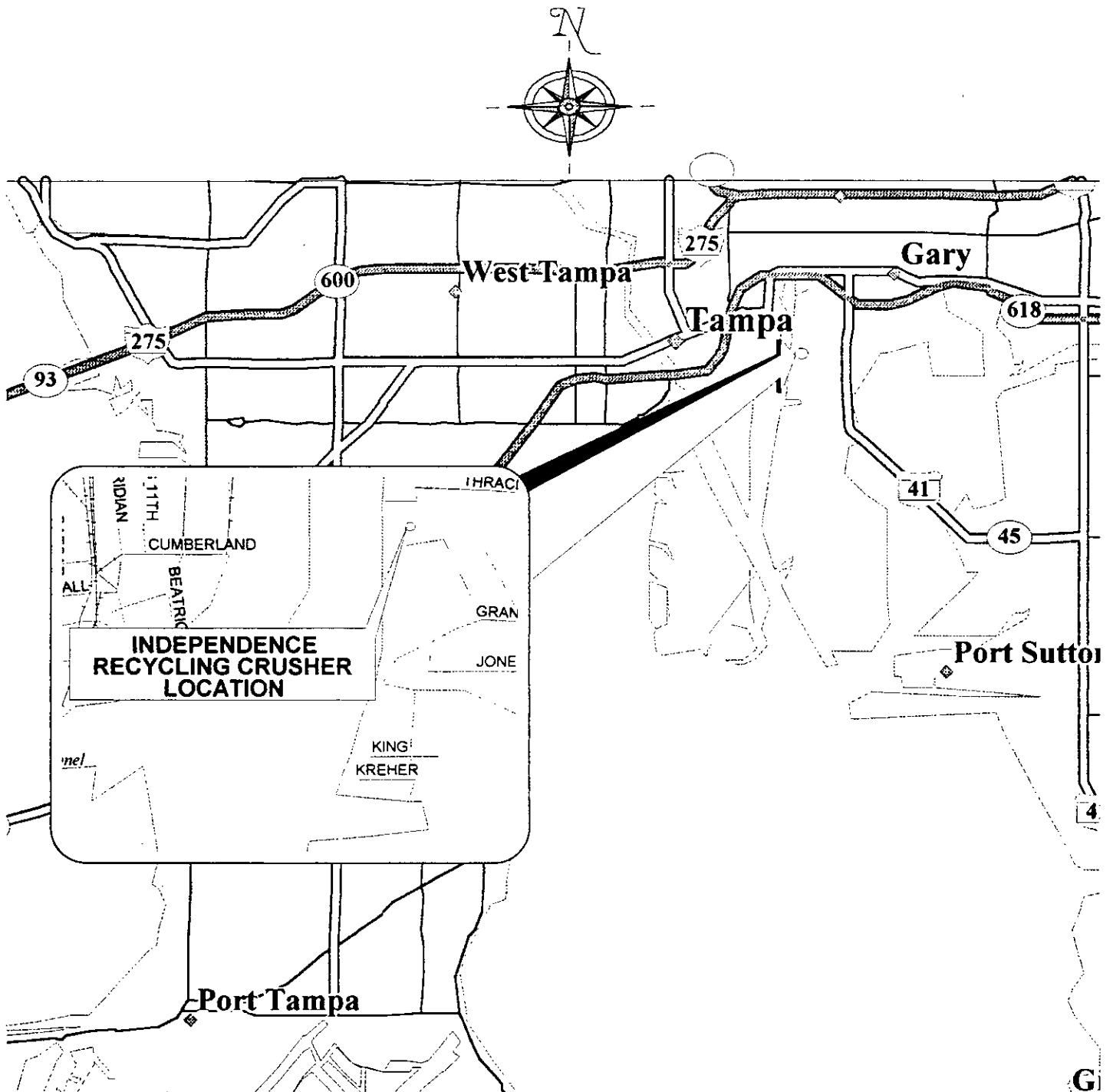
Lorme Mapping

**Central Florida Testing Laboratories, Inc.**  
1400 STARKEY ROAD • LARGO, FLORIDA • (813) 581-7019



# INDEPENDENCE RECYCLING

## Facility Location



Central Florida Testing Laboratories, Inc.  
1400 STARKEY ROAD • LARGO, FLORIDA • (813) 581-7019



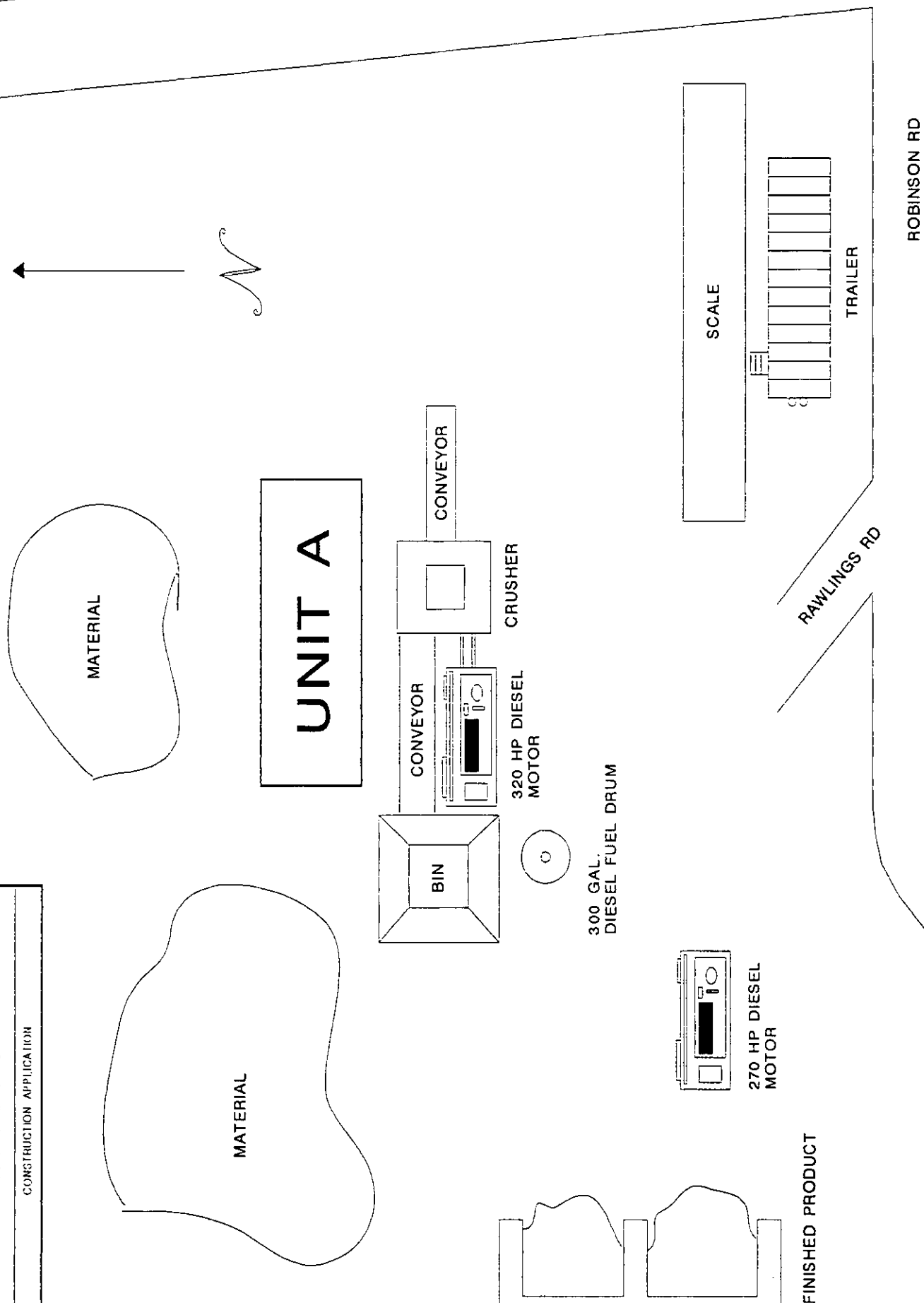
## II. SITE PLANS

**Central Florida Testing Laboratories**

1400 STANLEY ROAD  
LAKE WINDY, FL 34641

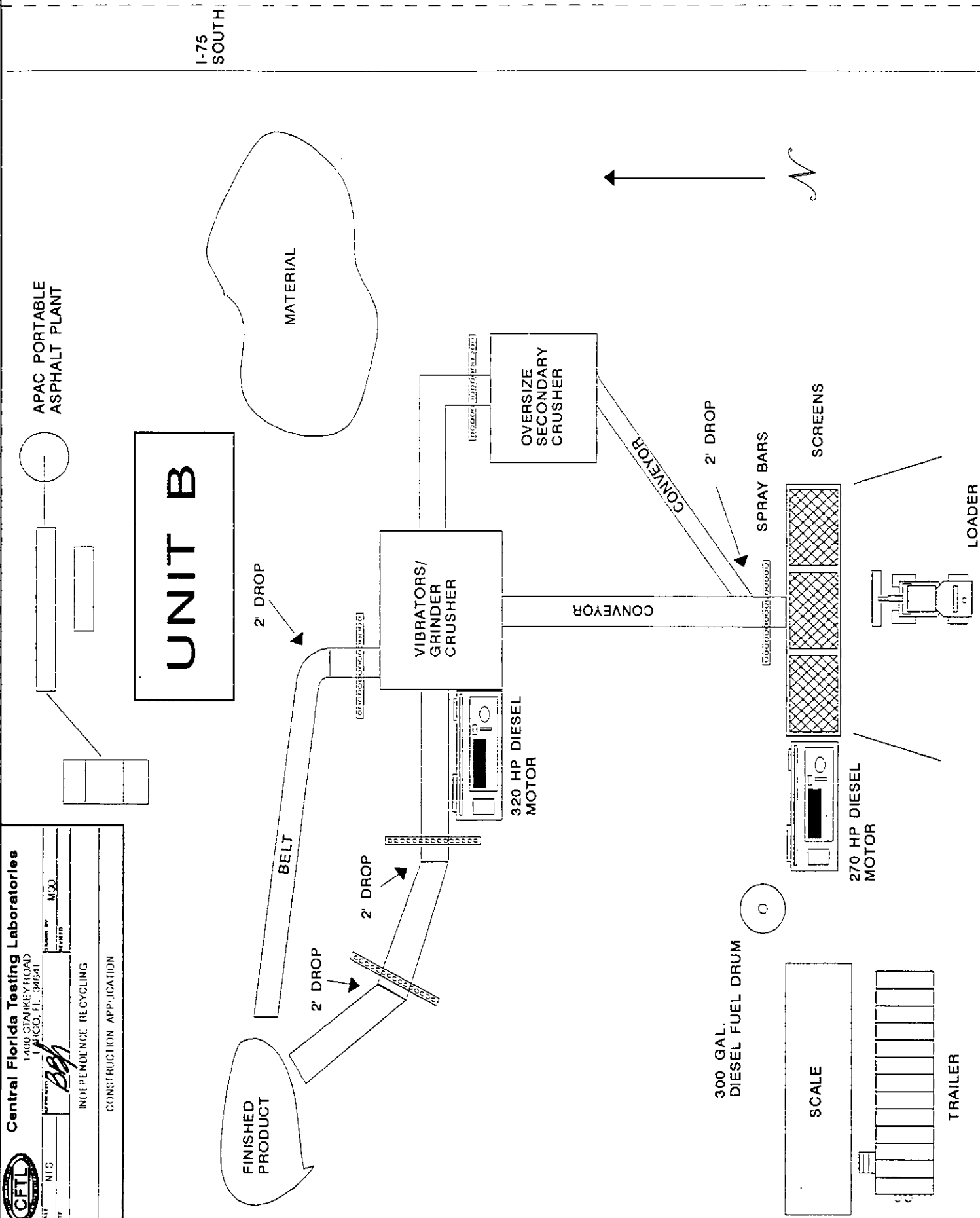


DATE	TEST	BY	APPROVED BY
11/15	NIS	MSD	MSD
INDEPENDENCE RECYCLING			
CONSTRUCTION APPLICATION			



**Central Florida Testing Laboratories**  
 1400 STARKY ROAD  
 AUSTIN, TX 78741  
 Phone 512 338-1111  
 Fax 512 338-1112

Project: **INDIVIDUAL RECYCLING**  
 Construction Application: **CONSTRUCTION APPLICATION**



### III. PROCESS DESCRIPTION

## PROCESS DESCRIPTION

This project consists of a portable secondary crushing plant utilized to recycle reclaimed asphalt and concrete material for retail sales or for use in asphaltic concrete mixes.

The process begins with the transfer of reclaimed asphalt and concrete material that has been scalped or excavated from highways, parking lots, building demolition which is brought to the site and 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 virtually dust free. This material is too large for reuse in it's reclaimed size, therefore the reclaimed material has to be screened and crushed to various usable aggregate sizes. The reclaimed asphalt or concrete chunks are transferred from their stockpiles by a front-end-loader into a vibrating grizzly feeder hopper where this material is sized by a screen. After being sized the material small enough to pass through the screen drops onto the conveyor belt. If the material is too large for the screen it drops into the impactor where it is crushed to a desired size and falls onto the conveyor belt. This material is then transferred by the conveyor belt to the stockpile where it is picked up by a front-end loader and stockpiled for retail sales or delivered to the asphalt plants for use in their asphaltic concrete mixes.

The majority of fugitive dust created during this process is generated by the vibrating feeder, the screening process and the impactor-crusher. The emissions at this facility will be controlled by damping the material to be crushed with just enough water to so that when these materials are processed the emissions of the fugitive will be negligible. The introduction of water into this material will be accomplished by mounting sprayer bars on the vibrating feeder and various other drop and emission points in the manner that these spray bars will dampen the material such that the dust will not be emitted. The flow of water will vary on a as needed basis and will be controlled by the operator of the crushing plant. In addition, the emissions points will be covered with a sheeting material as to prevent any fugitive dust generated to leave this source.

On location, this crushing operation will comply with all FDEP/HCEPC/SCESD rules and regulations.

IV. FLOW DIAGRAM



Central Florida Testing Laboratories

1400 STANLEY ROAD  
LAUDERDALE, FL 33304

DATE

TESTED BY

TESTED AT

TESTED BY

TESTED AT

TESTED BY

TESTED AT

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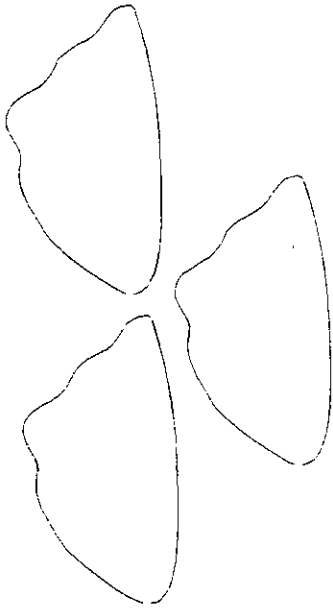
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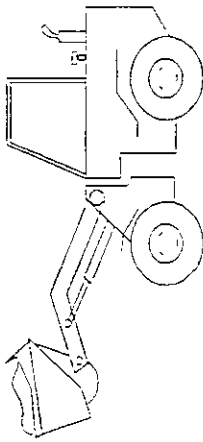
TESTED AT

INDEPENDENCE EXCAVATING, INC.

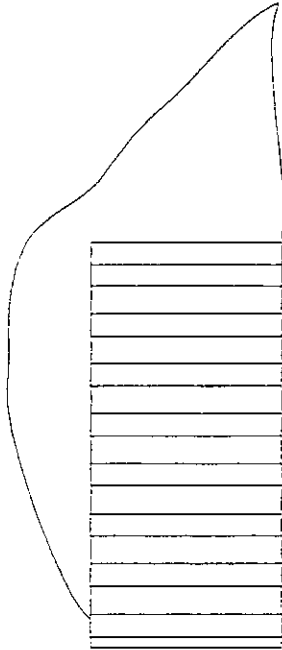
CONSTRUCTION APPLICATION



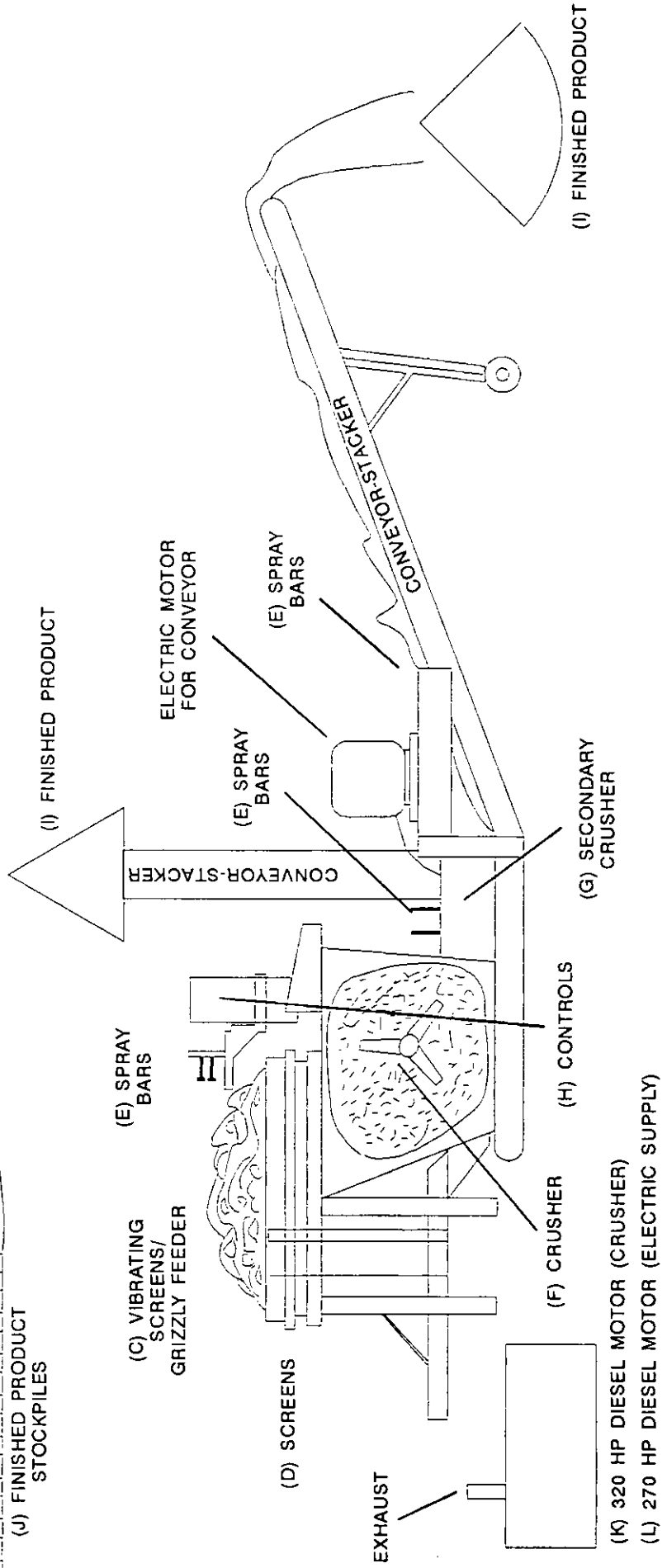
(A) RECLAIMED ASPHALT OR CEMENT



(B) LOADER



(J) FINISHED PRODUCT STOCKPILES



(K) 320 HP DIESEL MOTOR (CRUSHER)

(L) 270 HP DIESEL MOTOR (ELECTRIC SUPPLY)

V. CALCULATIONS OF EMISSIONS



CENTRAL FLORIDA TESTING  
LABORATORIES, INC.  
1400 Starkey Road - Largo, FL 34641  
(813)581-7019 (800)248-CFTL

## INDEPENDENCE EXCAVATING, INC.

150 tph Portable - Hazmag Crushing Unit  
FDEP/HCEPC Construction Permit Application  
Calculation of Emissions

Page 1 of 6

### Two Diesel Engines Utilized In Crushing Process

- 320 H.P. Caterpillar - Model 3406, Diesel Fired Motor to Power Crusher  
270 H.P. Caterpillar - Model 3306, Diesel Fired Motor to Power Facility  
\* Maximum Facility Process Rate of Facility = 150 ton/hr  
\* Aggregate Storage Area = 2500 tons @ 30 feet in height and a density  
of 100 lbs/ft<sup>3</sup>.

### DIESEL GENERATOR EMISSION PARAMETERS

Each Unit Exhaust Stack is 4 ft. high with a 5 inch (ID) opening.  
Approximate Exhaust Temperature of each unit is 415° F

Fw = 10,320 scf/million BTU (Distillate Oil EPA Ref. Method 19)

Assuming 20% excess air is needed to operate diesel engines and 37% efficiency in converting BTU input to output.

#### 320 H.P. Diesel Motor - velocity

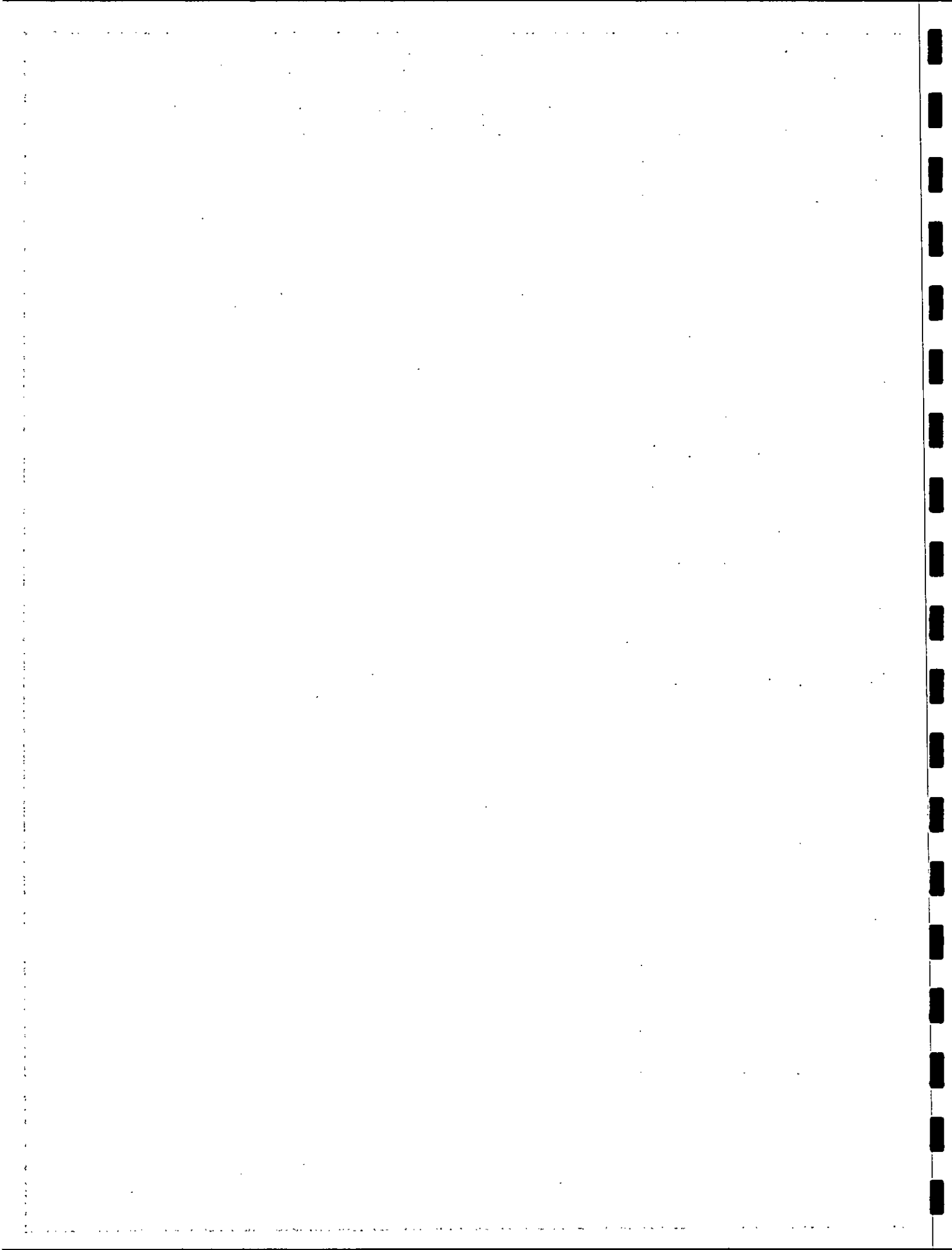
2547 BTU	10,320 scf	1	486° K
320 H.P. (-----)	(-----)	(-----)	(-----) (120% excess air)
HP/HR	million BTU	0.37	293° K

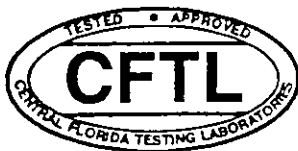
1 hr.  
(-----) = 12.6 ft<sup>3</sup>/sec  
3600 sec.

#### 270 H.P. Diesel Motor - velocity

2547 BTU	10,320 scf	1	486° K
270 H.P. (-----)	(-----)	(-----)	(-----) (120% excess air)
HP/HR	million BTU	0.37	293° K

1 hr.  
(-----) = 10.6 ft<sup>3</sup>/sec  
3600 sec.





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LABORATORIES, INC.  
1400 Starkey Road - Largo, FL 34641  
(813)581-7019 (800)248-CFTL

## INDEPENDENCE EXCAVATING, INC.

150 tph Portable - Hazmag Crushing Unit  
FDEP/HCEPC Construction Permit Application  
Calculation of Emissions

Page 2 of 6

### 320 H.P. Diesel Engine Emissions

\* Emission Formula =  $[(\text{Grams}/\text{hp-hr})(\text{H.P. rating})]/(453.6 \text{ g/lb}) = \text{lb/hr}$

#### Particulate Emissions

EPM =  $[(1.00)(320)]/(453.6 \text{ g/lb}) = 0.71 \text{ lb/hr}$

#### Sulfur Oxide Emissions

ES02 =  $[(0.0931)(320)]/(453.6 \text{ g/lb}) = 0.066 \text{ lb/hr}$

#### Carbon Monoxide Emissions

ECO =  $[(3.03)(320)]/(453.6 \text{ g/lb}) = 2.13 \text{ lb/hr}$

#### Hydrocarbon Emissions

EHC =  $[(1.14)(320)]/(453.6 \text{ g/lb}) = 0.80 \text{ lb/hr}$

#### Nitrogen Oxide Emissions

ENOx =  $[(14.0)(320)]/(453.6 \text{ g/lb}) = 9.88 \text{ lb/hr}$

### 270 H.P. Diesel Engine Emissions

#### Particulate Emissions

EPM =  $[(1.00)(270)]/(453.6 \text{ g/lb}) = 0.60 \text{ lb/hr}$

#### Sulfur Oxide Emissions

ES02 =  $[(0.0931)(270)]/(453.6 \text{ g/lb}) = 0.055 \text{ lb/hr}$

#### Carbon Monoxide Emissions

ECO =  $[(3.03)(270)]/(453.6 \text{ g/lb}) = 1.80 \text{ lb/hr}$

#### Hydrocarbon Emissions

EHC =  $[(1.14)(270)]/(453.6 \text{ g/lb}) = 0.68 \text{ lb/hr}$

#### Nitrogen Oxide Emissions

ENOx =  $[(14.0)(270)]/(453.6 \text{ g/lb}) = 8.33 \text{ lb/hr}$

#### Notes:

- 1) Emission factors used for calculations based on Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines in Table 3.3-1 of AP-42 and in AP-40.





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### PARTICULATE EMISSIONS FROM FACILITY (TSP & PM10)

\* Each emission point has an area of ~ 100 ft<sup>3</sup> and an emission height of ~15 feet, with the exception of the storage pile.

#### #1 - Primary or Secondary Crushing of Moistened Material

$$\text{TSP} = (0.018 \text{ lb/ton})(150 \text{ ton/hr})(1-0.90 \text{ enclosure eff.}) = 0.27 \text{ lb/hr}$$

#### #2 - Crusher Hopper Loading Operations

$$\text{TSP} = (0.0003 \text{ lb/ton})(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 0.007 \text{ lb/hr}$$

$$\text{PM10} = (0.00002 \text{ lb/ton})(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 0.0005 \text{ lb/hr}$$

#### #3 - Conveying System

$$\text{TSP} = (0.0003 \text{ lb/ton})(150 \text{ ton/hr}) = 0.045 \text{ lb/hr}$$

$$\text{PM10} = (0.0001 \text{ lb/ton})(150 \text{ ton/hr}) = 0.015 \text{ lb/hr}$$

#### #4 - Screening Unit

$$\text{TSP} = (0.16 \text{ lb/ton})(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 3.6 \text{ lb/hr}$$

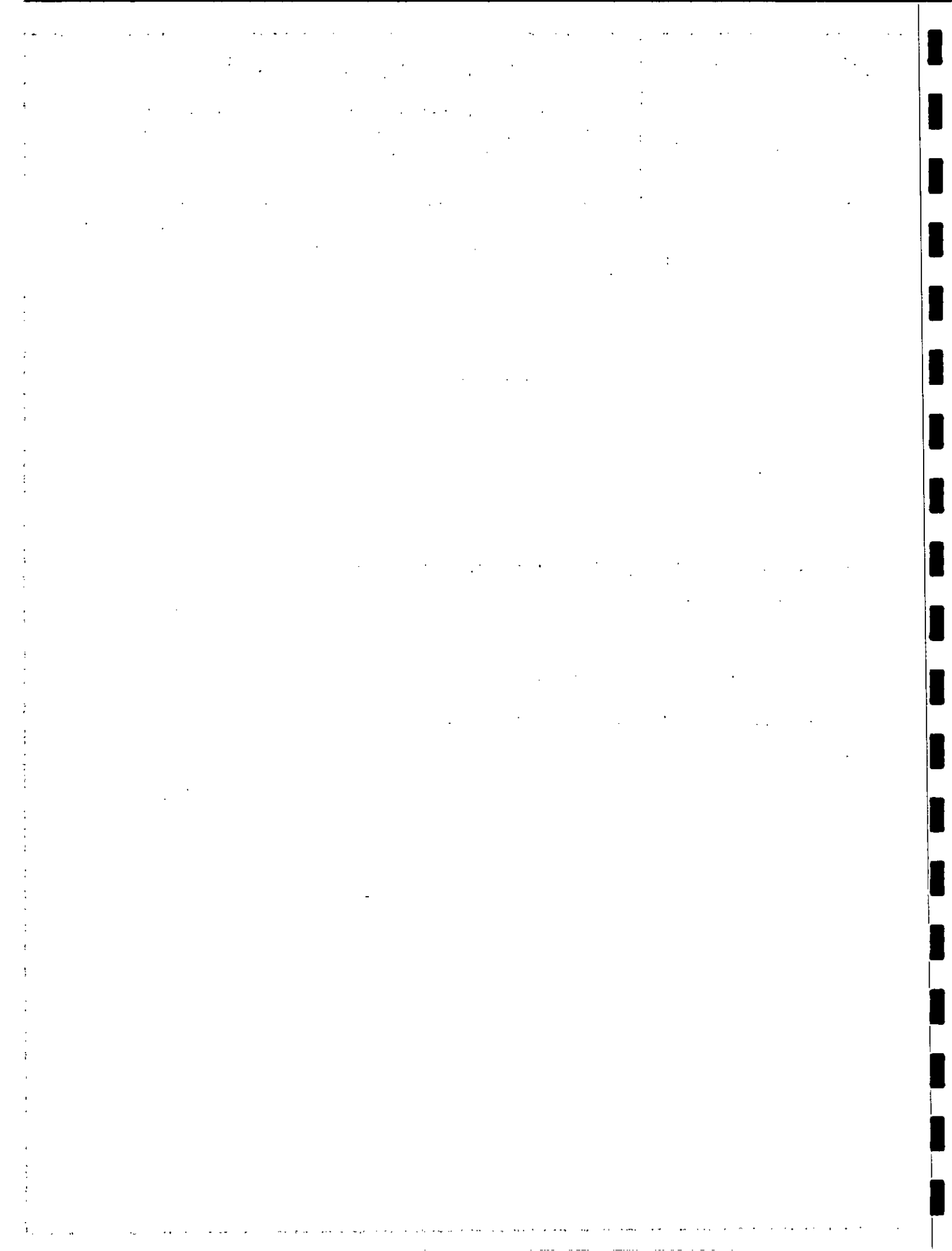
$$\text{PM10} = (0.12 \text{ lb/ton})(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 2.7 \text{ lb/hr}$$

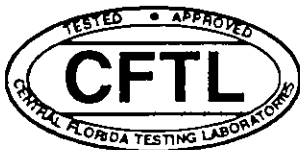
#### #5 - Continuous Drop Transfer Station

$$\text{PM10} = (0.029 \text{ lb/ton})(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 0.65 \text{ lb/hr}$$

#### Notes:

- 1) Control Efficiencies based on efficiency ratings in Section 8.19.2-4 of AP-42 also in AP-40.
- 2) Emission factors based on emission factors found in Section 8.19.2, and 8.19.1 of AP-42 also in AP-40.





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150 tph Portable - Hazmag Crushing Unit  
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Calculation of Emissions

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### EMISSIONS FROM AGGREGATE HANDLING AND STORAGE PILES

(includes continuous drop, equipment traffic, wind erosion and load outs)

$$E \text{ (lb/ton)} = K(0.0032) \frac{(u/5)^{1.3}}{(m/2)^{1.4}}$$

K (particle size multiplier) = 0.74 (TSP) & 0.35 (PM10)

U (mean wind speed) = 10 mph

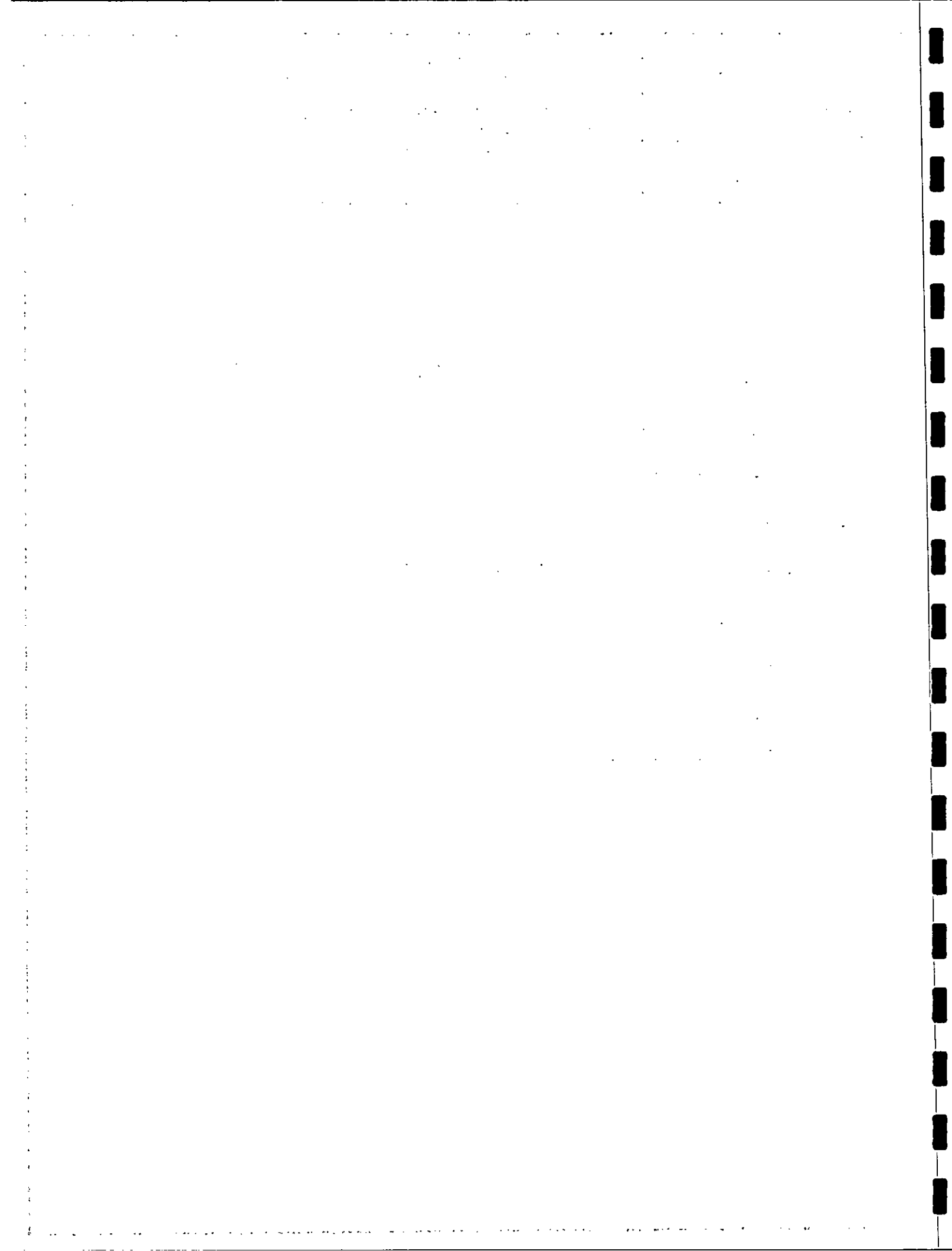
M (material moisture content) = 7%

$$\begin{aligned} E(\text{TSP}) &= [0.74(0.0032)][(10/5)^{1.3}/(0.7/2)^{1.4}] = 0.02535 \text{ lb/ton} \\ &= 0.02535 \text{ lb/ton}(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 0.57 \text{ lb/hr} \end{aligned}$$

$$\begin{aligned} E(\text{PM}_{10}) &= [0.35(0.0032)][(10/5)^{1.3}/(0.7/2)^{1.4}] = 0.01199 \text{ lb/ton} \\ &= 0.01199 \text{ lb/ton}(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 0.27 \text{ lb/hr} \end{aligned}$$

#### Notes:

- 1) Emission Factors based on emission factors found in Section 11.3.3 of AP-42.





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150 tph Portable - Hazmag Crushing Unit  
FDEP/HCEPC Construction Permit Application  
Calculation of Emissions

Page 5 of 6

### TOTAL HOURLY EMISSIONS FROM FACILITY

#### Particulate

$E_{p\text{total}} = (E \text{ crushing}) + (E \text{ Hopper Loading}) + (E \text{ conveying}) + (E \text{ screening}) +$   
 $(E \text{ transfer station}) + (E \text{ storage pile \& traffic}) + (E \text{ diesel engines})$

$E_{p\text{total}} = (0.0270) + (0.007) + (0.045) + (3.60) + (0.65) + (0.57) + (1.31)$

$E_{p\text{total}} = 6.21 \text{ lb/hr}$

#### Sulfur Dioxide - (Diesel Engines)

$ESO_2 = (0.066 + 0.055 \text{ lb/hr}) = 0.121 \text{ lb/hr}$

#### Carbon Monoxide - (Diesel Engines)

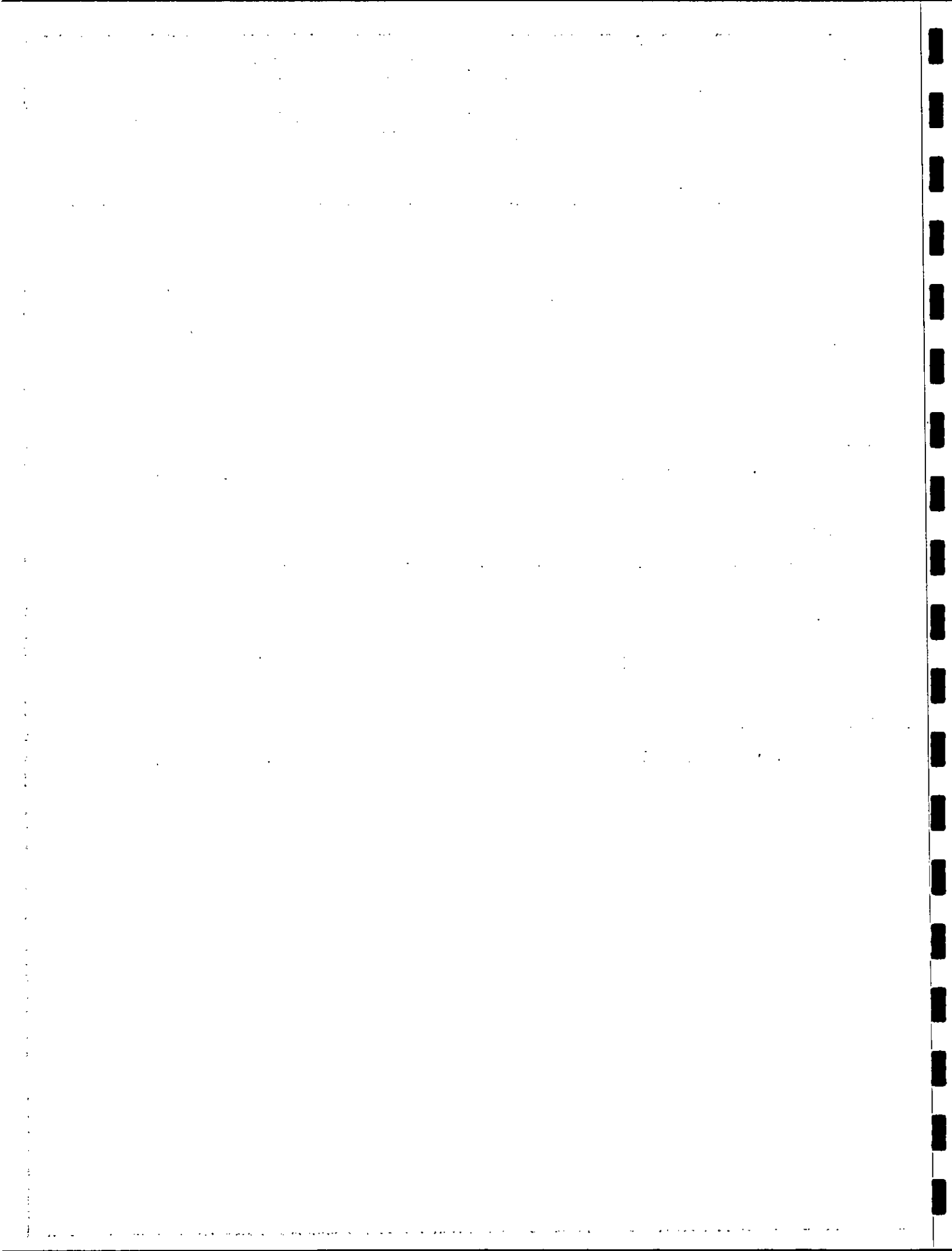
$ECO = (2.13 + 1.80 \text{ lb/hr}) = 3.93 \text{ lb/hr}$

#### Hydrocarbons - (Diesel Engines)

$EHC = (0.80 + 0.68 \text{ lb/hr}) = 1.48 \text{ lb/hr}$

#### Nitrogen Oxides - (Diesel Engines)

$ENOX = (9.88 + 8.33 \text{ lb/hr}) = 18.21 \text{ lb/hr}$





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150 tph Portable - Hazmag Crushing Unit  
FDEP/HCEPC Construction Permit Application  
Calculation of Emissions

Page 6 of 6

### TOTAL YEARLY EMISSIONS

#### Particulate

$$Ep = (6.21 \text{ lb/hr})(3120 \text{ hr/yr})/2000 \text{ lb/ton} = 9.69 \text{ ton/yr}$$

#### Sulfur Dioxides

$$ESO_2 = (0.066 + 0.055 \text{ lb/hr})(3120 \text{ hr/yr})/2000 \text{ lb/ton} = 0.19 \text{ ton/yr}$$

#### Carbon Monoxide Emissions

$$ECO = (2.13 + 1.80 \text{ lb/hr})(3120 \text{ hr/yr})/2000 \text{ lb/ton} = 6.13 \text{ ton/yr}$$

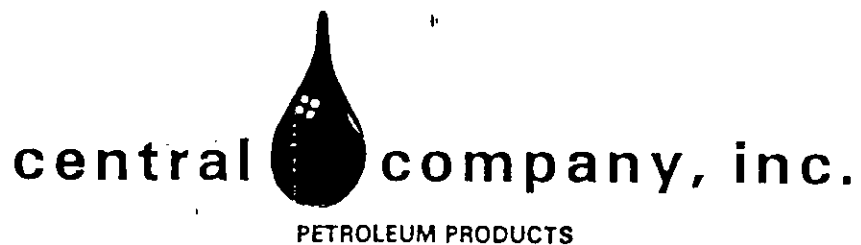
#### Hydrocarbons

$$EHC = (0.80 + 0.68 \text{ lb/hr})(3120 \text{ hr/yr})/2000 \text{ lb/ton} = 2.31 \text{ ton/yr}$$

#### Nitrogen Oxides

$$ENOX = (9.88 + 8.33 \text{ lb/hr})(3120 \text{ hr/yr})/2000 \text{ lb/ton} = 28.41 \text{ ton/yr}$$

## VI. FUEL ANALYSIS



NO. 2 FUEL OIL SPECIFICATIONS

API Gravity @ 60 Degrees F	15.58
Viscosity, SSU @ 100 Degrees F	744 Sec
Sulphur, Wt. %	.90
Flash Point	175 Degrees F
B.S. & W.	.08%
Ash, Wt. %	.03

INDEPENDENCE EXCAVATING, INC.  
PORTABLE HAZMAG CRUSHING UNIT B  
STATEWIDE  
FDEP CONSTR. PERMIT APPLICATION

# Florida Department of Environmental Protection

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DEP Form #	
Form Title	
Effective Date	
DEP Application No.	(Filed in by DEP)

## RECEIVED

AC 24-256369

AUG 22 1994

STATEWIDE

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

11000 pd.  
4-22-94  
Recpt. # 224250

SOURCE TYPE: Bureau of Portable Secondary Crushing Unit [X]New<sup>1</sup> [ ]Existing<sup>1</sup>

APPLICATION TYPE: [X]Construction [ ]Operation [ ]Modification

COMPANY NAME: Independence Excavating, Inc. COUNTY: Hillsborough/Sarasota

Identify the specific emission point source(s) addressed in this application: 150 ton/hr Hazmag Crushing Unit (B) Serial # KR00881832 powered by a 320 H.P. Caterpillar - Model 3406 diesel fired motor and a and a Caterpillar diesel fired 270 H.P., Model 3306 generator set used to supply electrical power to conveyors and etc.

SOURCE LOCATION: 730 Roosevelt Plaza, Tampa Port Authority/ Tampa/ Street Interstate 75 (0.8 mile south of S.R.72) City Osprey

UTM: East 17-358.2 / 17-356.2 North 3091.9 / 3015.8

Latitude 27° 56' 45" N Longitude 82° 26' 28" W

APPLICANT NAME AND TITLE: Mr. Vic DiGeronimo, Jr., Owner

APPLICANT ADDRESS: 730 Roosevelt Plaza, Tampa Port Authority, Tampa, Florida 33605

### SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

#### A. APPLICANT

I am the undersigned owner or authorized representative\* of Independence Excavating After-the-fact

I certify that the statements made in this application for a Construction permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

\*Attach letter of authorization

Signed: [Signature]

Mr. Vic DiGeronimo, Owner  
Name and Title (Please Type)

Date: 8-11-94 Telephone No. (813) 247-4114

#### B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

<sup>1</sup> See Florida Administrative Code Rule 17-210.200(14) and (31)

Reproduction of DEP Form 17-1.202(1)  
Effective October 31, 1982

Page 1 of 12

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1964

1964

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed

Mr. George C. Sinn, Jr., P.E.

Name (Please Type)

Central Florida Testing Laboratories, Inc.

Company Name (Please Type)

1400 Starkey Road, Largo, Florida 34641

Mailing Address (Please Type)

Florida Registration No. 16911

Date: 8-9-84 Telephone No. (813) 581-7019

## SECTION II: GENERAL PROJECT INFORMATION

- A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of the installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

"SEE SUPPLEMENTAL PAGE NO. 1"

- B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction N/A Completion of Construction Already Constructed

- C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Water Induction System including spray bars to control emissions

and sheet metal enclosures to control emissions ~\$ 7,000.00

- D. Indicate any previous DEP permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

None - New Source

## SUPPLEMENTAL INFORMATION PAGE No.1

### Section II. General Project Information

This project consists of an existing Portable Hazmag Secondary Crushing Unit, Serial # KR00881832 that has operated at Independence Excavating, Inc., Tampa Port Authority Site periodically for approximately two years. This crushing plant is currently employed at a repaving site on Interstate 75 in Sarasota County, Florida. This unit now located at the Sarasota County Site will be known as "Unit B" and will be relocated from the Sarasota County Site to the Tampa Port Authority Site on a as needed basis and on a portable basis upon job completion in Sarasota County. This crushing plant is utilized to crush and stockpile reclaimed asphalt and concrete material for retail sale at the Tampa site and crush reclaimed asphalt and concrete for reuse in asphaltic concrete mixes at the Sarasota County site. This crushing plant ("Unit A") crushes, screens, and stockpiles asphalt and concrete material at a maximum of 150 tons per hour. This crushing unit will utilize water introduced through spray bar systems, moistening the reclaimed material to be crushed and moistening crushed material drop and transfer points to control the emissions generated during feeding, crushing, screening, and the conveying process. The water spray bar system will be adjusted accordingly to control emissions with water pressure varying from 10 to 40 gallons per minute. This facility will comply with all FDEP/HCEPC/SCESD rules and regulations.

E. Requested permitted equipment operating time: hrs/day 0-10 ; days/wk 0-6 ; wks/yr 52  
if power plant, hrs/yr 2,080 if seasonal, describe: This facility is not seasonal  
but is weather dependent. Normal Daily Operating Hours: 7:00 a.m. to 5:00 p.m.

F. If this is a new source or major modification, answer the following questions.  
(Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? Yes
  - a. If yes, has "offset" been applied? No
  - b. If yes, has "Lowest Achievable Emission Rate" been applied? No
  - c. If yes, list non-attainment pollutants. Particulate and Ozone
2. Does best available control technology (BACT) apply to this source?  
If yes, see Section VI. No
3. Does the "Prevention of Significant Deterioration" (PSD)  
requirement apply to this source? If yes, see Sections VI and VII. No
4. Do "Standards of Performance for New Stationary Sources" (NSPS)  
apply to this source? Yes
5. Do "National Emission Standards for Hazardous Air Pollutants"  
(NESHAP) apply to this source? No
- H. Do "Reasonably Available Control Technology" (RACT) requirements apply  
to this source? Yes
  - a. If yes, for what pollutants? Particulate
  - b. If yes, in addition to the information required in this form,  
any information requested in Rule 17.296.500 must be submitted.

Attach all supportive information related to any answer of "Yes" Attach any justifi-  
cation for any answer of "No" that might be considered questionable.

### SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

**A. Raw Materials and Chemicals Used in your Process, if applicable:**

Description	Contaminants		Utilization Rate lbs/hr	Relate to Flow Diagram
	Type	% Wt.		
Reclaimed Asphalt Pavement or Reclaimed Concrete	Particulate -200 mesh	2.0	300,000	A

**B. Process Rate, if applicable: (See Section V, Item 1)**

1. Total Process Input Rate (lbs/hr): 150 ton/hr as reclaimed asphalt or concrete materia
2. Product Weight (lbs/hr): 150 ton/hr as recycled asphalt or concrete pavement

**C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary) \* Emissions include fugitives and gaseous emissions from diesel engine operation.**

Name of Contaminant	Emission <sup>1</sup>		Allowed <sup>2</sup> Emission Rate per Rule 17-296	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Particulate	6.21	9.69	Visible Emissions	<5% Opacity Crusher &	6.21	9.69	A, C, J, I
Sulfur Oxides	0.121	0.19		Emission Points	0.121	0.19	K, L
Carbon Oxides	3.19	6.13		<20% Opacity -	3.19	6.13	K, L
Hydrocarbons	1.48	2.31		Diesel Engine	1.48	2.31	K, L
Nitrogen Oxides	18.21	28.41		Exhausts	18.21	28.41	K, L

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference applicable emission standards and units (e.g. Rule 17-296.405(2)(b), - 0.1 pounds per million BTU heat input)

<sup>3</sup>Calculated from operating rate and applicable standard.

<sup>4</sup>Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (if applicable)	Basis for Efficiency (Section V Item 5)
Induction of Water through spray bars on various emission points and metal sheeting enclosures	Particulate	85.0%	+1.0 Micron	AP-42, Design and Test Data

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max/hr	
No.2 virgin diesel fuel with 1.0% sulfur limit to 270 H.P. Generator Set	12.8 gal/hr	13.3 gal/hr	1.86 MMBTU/hr
No.2 virgin diesel fuel as with a 1.0% sulfur limit to fire 320 H.P. Crusher Motor	14.0 gal/hr	15.8 gal/hr	2.20 MMBTU/hr

\*Units: Natural Gas - MMBTU/hr; Fuel Oils - gallons/hr; Coal, wood, refuse, other - lbs/hr.

Fuel Analysis: No.2 Fuel Oil

Percent Sulfur: <1.0 % Percent Ash: 0.3%

Density: 8.012 lbs/gal Typical Percent Nitrogen: Neg. / Neg.

Heat Capacity:            BTU/lb; 135,000 BTU/gal N/A BTU/ft<sup>3</sup>

Other Fuel Contaminants (which may cause air pollution): NONE

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average NOT APPLICABLE Maximum NOT APPLICABLE

G. Indicate liquid or solid wastes generated and method of disposal.

No liquid or solid wastes generated from this process. Water spray bars utilized at  
emission points. material sprayed. water absorbed by product to eliminate dust.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):  
 (\* SEE PAGE 1 of 6 - Calculation of Emissions Sheets)

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ ft.  
 Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM Gas Exit Temperature: \_\_\_\_\_ °F.  
 Water Vapor Content: \_\_\_\_\_ % Velocity: \_\_\_\_\_ FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (PLASTICS)	Type I (RUBBISH)	Type II (REFUSE)	Type III (GARBAGE)	Type IV (PATHOLOG- ICAL)	Type V (LIQUID & GAS BY-PROD)	Type VI (SOLID BY PRODUCT)
Actual lb/hr incinerated							
Uncontrolled (lbs/hr)							

Description of Waste \_\_\_\_\_

Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_

Approximate Number of Hours of Operation per day \_\_\_\_\_ days/wk \_\_\_\_\_ wks/yr \_\_\_\_\_

Manufacturer \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

	Volume (ft <sup>3</sup> )	Heat Release (Btu/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ Stack Temperature: \_\_\_\_\_

Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity: \_\_\_\_\_ FPS

\*If 50 or more tons per day design capacity, submit the emission rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: ☐ Cyclone ☐ Wet Scrubber ☐ Afterburner  
☐ Other (specify) \_\_\_\_\_

Brief description of operating characteristics of control devices: \_\_\_\_\_

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

#### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight - show derivation [Rule 17-212.200(41)]
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8 1/2' x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

INDEPENDENCE EXCAVATING, INC.  
SUPPLEMENTAL INFORMATION  
FDEP CONSTRUCTION PERMIT APPLICATION  
HAZMAG CRUSHING UNIT " B "

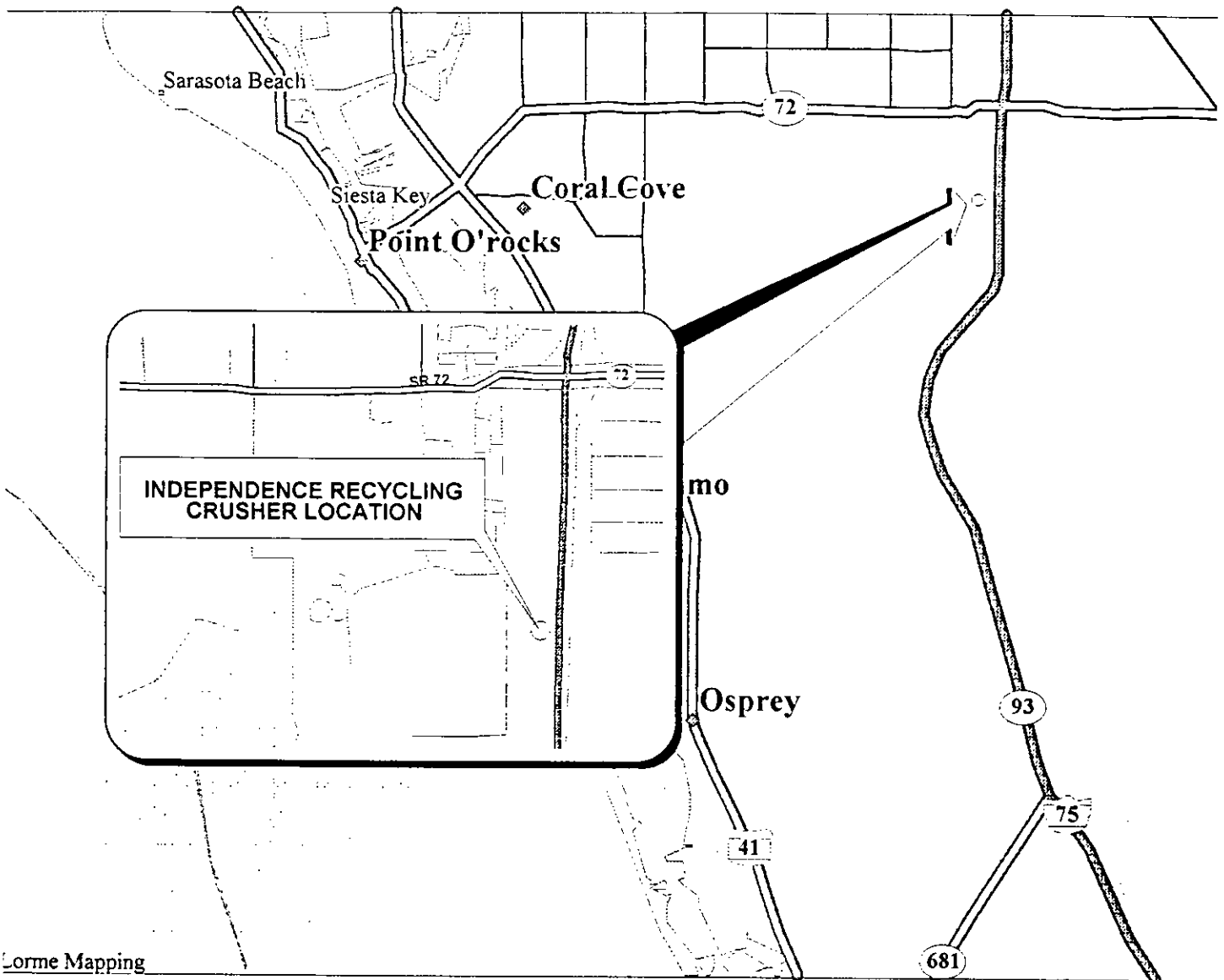
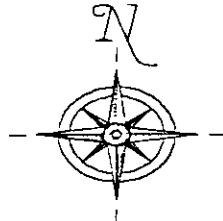
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- II. SITE PLAN
- III. PROCESS DESCRIPTION
- IV. FLOW DIAGRAM
- V. CALCULATIONS OF EMISSIONS
- VI. FUEL ANALYSIS

I. PLANT LOCATIONS

# INDEPENDENCE RECYCLING

## Facility Location

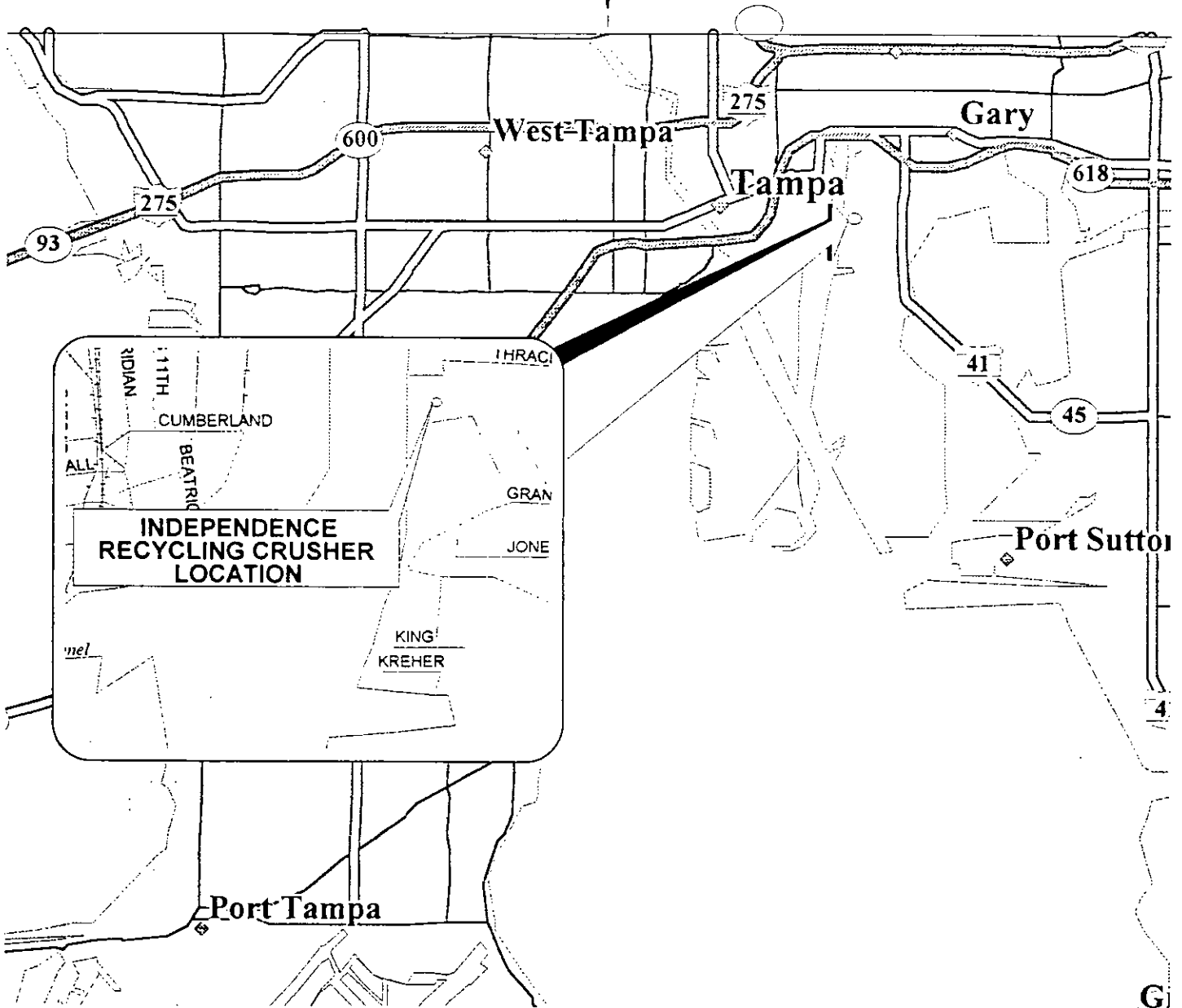
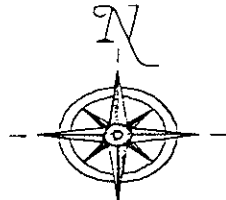


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1400 STARKEY ROAD • LARGO, FLORIDA • (813) 581-7019



# INDEPENDENCE RECYCLING

## Facility Location



Central Florida Testing Laboratories, Inc.  
1400 STARKEY ROAD • LARGO, FLORIDA • (813) 581-7019



## II. SITE PLANS

Central Florida Testing Laboratories

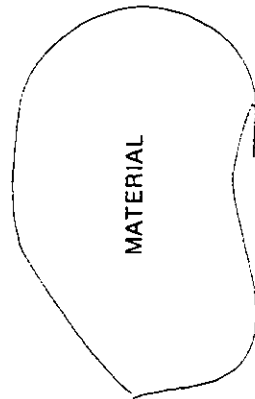
1400 STARKES ROAD  
LAKE COUNTY, FL 32821



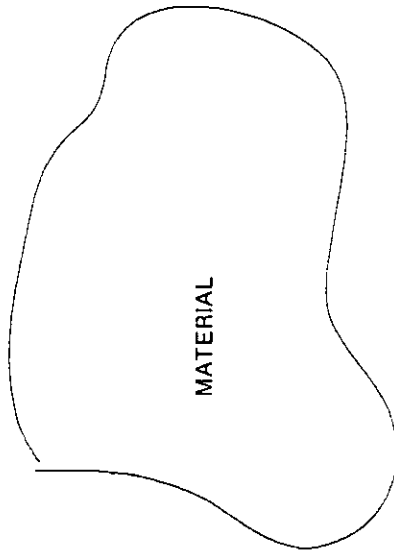
DATE: 10/1/83  
BY: JCH  
TEST NO: 1000  
PROJECT: 1000  
MATERIAL: 1000  
METHOD: 1000

WIDEPENGE RECYCLING

CONSTRUCTION APPLICATION

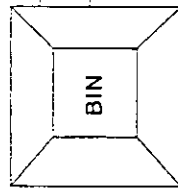


MATERIAL

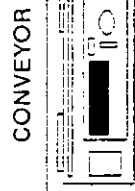


MATERIAL

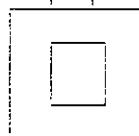
UNIT A



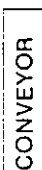
BIN



CONVEYOR



CRUSHER



CONVEYOR

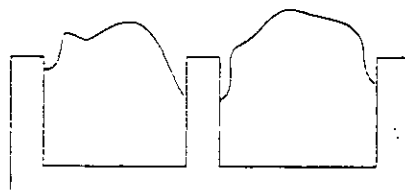
320 HP DIESEL  
MOTOR



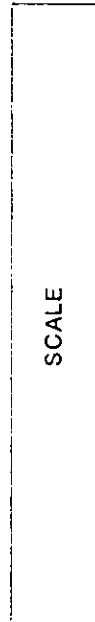
300 GAL.  
DIESEL FUEL DRUM



270 HP DIESEL  
MOTOR



FINISHED PRODUCT



SCALE



TRAILER

RAWLINGS RD

ROBINSON RD



Central Florida Testing Laboratories

1400 CLARKVILLE ROAD  
LAKE COUNTY, FL 32151



DATE: 11/13/83 BY: BAH  
TEST NO.: 11-3841

INDEPENDENCE RECYCLING

CONSTRUCTION APPLICATION

APAC PORTABLE ASPHALT PLANT

UNIT B

I-75 SOUTH

FINISHED PRODUCT

BELT

2' DROP

2' DROP

2' DROP

VIBRATORS/  
GRINDER  
CRUSHER

320 HP DIESEL  
MOTOR

OVERSIZE  
SECONDARY  
CRUSHER

CONVEYOR

CONVEYOR

2' DROP

300 GAL.  
DIESEL FUEL DRUM

SCALE

270 HP DIESEL  
MOTOR

SPRAY BARS

SCREENS

TRAILER

LOADER

MATERIAL



### III. PROCESS DESCRIPTION

## PROCESS DESCRIPTION

This project consists of a portable secondary crushing plant utilized to recycle reclaimed asphalt and concrete material for retail sales or for use in asphaltic concrete mixes.

The process begins with the transfer of reclaimed asphalt and concrete material that has been scalped or excavated from highways, parking lots, building demolition which is brought to the site and 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 virtually dust free. This material is too large for reuse in it's reclaimed size, therefore the reclaimed material has to be screened and crushed to various usable aggregate sizes. The reclaimed asphalt or concrete chunks are transferred from their stockpiles by a front-end-loader into a vibrating grizzly feeder hopper where this material is sized by a screen. After being sized the material small enough to pass through the screen drops onto the conveyor belt. If the material is too large for the screen it drops into the impactor where it is crushed to a desired size and falls onto the conveyor belt. This material is then transferred by the conveyor belt to the stockpile where it is picked up by a front-end loader and stockpiled for retail sales or delivered to the asphalt plants for use in their asphaltic concrete mixes.

The majority of fugitive dust created during this process is generated by the vibrating feeder, the screening process and the impactor-crusher. The emissions at this facility will be controlled by damping the material to be crushed with just enough water to so that when these materials are processed the emissions of the fugitive will be negligible. The introduction of water into this material will be accomplished by mounting sprayer bars on the vibrating feeder and various other drop and emission points in the manner that these spray bars will dampen the material such that the dust will not be emitted. The flow of water will vary on a as needed basis and will be controlled by the operator of the crushing plant. In addition, the emissions points will be covered with a sheeting material as to prevent any fugitive dust generated to leave this source.

On location, this crushing operation will comply with all FDEP/HCEPC/SCESD rules and regulations.

#### IV. FLOW DIAGRAM

# Central Florida Testing Laboratories

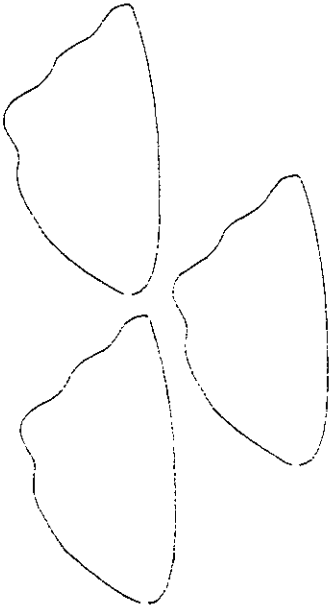
1400 S. AURORA ROAD  
LAKE CO., FL. 34641

DATE: \_\_\_\_\_ PROJECT: \_\_\_\_\_

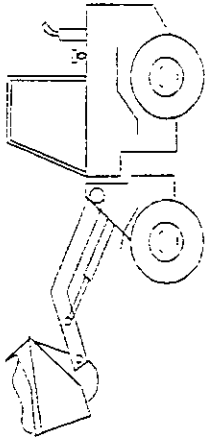
TEST: \_\_\_\_\_

INDURANCE EXCAVATING, INC.

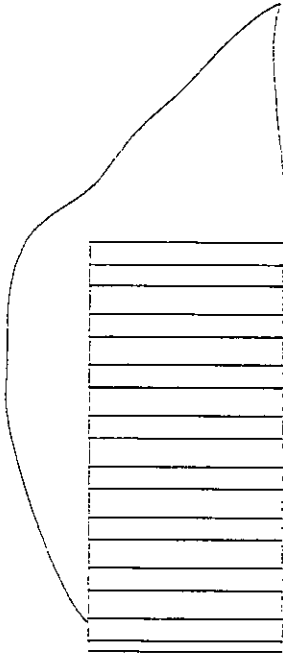
CONSTRUCTION APPLICATION



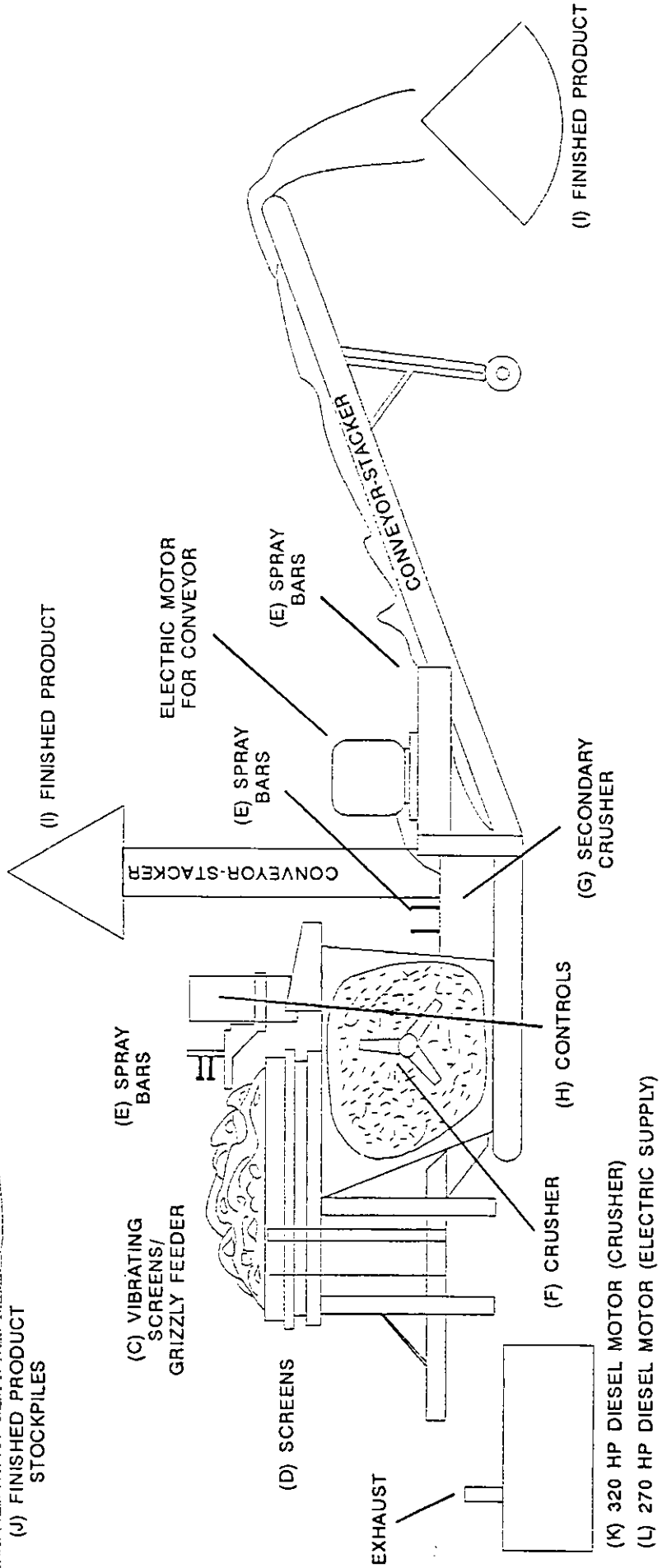
(A) RECLAIMED ASPHALT OR CEMENT



(B) LOADER



(J) FINISHED PRODUCT STOCKPILES



(I) FINISHED PRODUCT

ELECTRIC MOTOR FOR CONVEYOR

(E) SPRAY BARS

(E) SPRAY BARS

(E) SPRAY BARS

(C) VIBRATING SCREENS/GRIZZLY FEEDER

(D) SCREENS

(H) CONTROLS

(F) CRUSHER

(G) SECONDARY CRUSHER

(I) FINISHED PRODUCT

(K) 320 HP DIESEL MOTOR (CRUSHER)

(L) 270 HP DIESEL MOTOR (ELECTRIC SUPPLY)

EXHAUST

V. CALCULATIONS OF EMISSIONS



CENTRAL FLORIDA TESTING  
LABORATORIES, INC.  
1400 Starkey Road - Largo, FL 34641  
(813)581-7019 (800)248-CFTL

## INDEPENDENCE EXCAVATING, INC.

150 tph Portable - Hazmag Crushing Unit  
FDEP/HCEPC Construction Permit Application  
Calculation of Emissions

Page 1 of 6

### Two Diesel Engines Utilized In Crushing Process

- 320 H.P. Caterpillar - Model 3406, Diesel Fired Motor to Power Crusher  
270 H.P. Caterpillar - Model 3306, Diesel Fired Motor to Power Facility  
\* Maximum Facility Process Rate of Facility = 150 ton/hr  
\* Aggregate Storage Area = 2500 tons @ 30 feet in height and a density  
of 100 lbs/ft<sup>3</sup>.

### DIESEL GENERATOR EMISSION PARAMETERS

Each Unit Exhaust Stack is 4 ft. high with a 5 inch (ID) opening.  
Approximate Exhaust Temperature of each unit is 415° F

Fw = 10,320 scf/million BTU (Distillate Oil EPA Ref. Method 19)

Assuming 20% excess air is needed to operate diesel engines and 37% efficiency in converting BTU input to output.

#### 320 H.P. Diesel Motor - velocity

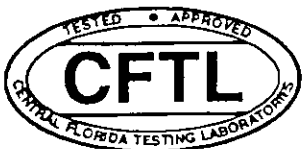
$$320 \text{ H.P.} \left( \frac{2547 \text{ BTU}}{\text{HP/HR}} \right) \left( \frac{10,320 \text{ scf}}{\text{million BTU}} \right) \left( \frac{1}{0.37} \right) \left( \frac{486^\circ \text{ K}}{293^\circ \text{ K}} \right) (120\% \text{ excess air})$$

$$\begin{aligned} & 1 \text{ hr.} \\ & \left( \frac{\text{---}}{\text{---}} \right) = 12.6 \text{ ft}^3/\text{sec} \\ & 3600 \text{ sec.} \end{aligned}$$

#### 270 H.P. Diesel Motor - velocity

$$270 \text{ H.P.} \left( \frac{2547 \text{ BTU}}{\text{HP/HR}} \right) \left( \frac{10,320 \text{ scf}}{\text{million BTU}} \right) \left( \frac{1}{0.37} \right) \left( \frac{486^\circ \text{ K}}{293^\circ \text{ K}} \right) (120\% \text{ excess air})$$

$$\begin{aligned} & 1 \text{ hr.} \\ & \left( \frac{\text{---}}{\text{---}} \right) = 10.6 \text{ ft}^3/\text{sec} \\ & 3600 \text{ sec.} \end{aligned}$$



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### 320 H.P. Diesel Engine Emissions

\* Emission Formula =  $[(\text{Grams}/\text{hp-hr})(\text{H.P. rating})]/(453.6 \text{ g/lb}) = \text{lb/hr}$

#### Particulate Emissions

EPM =  $[(1.00)(320)]/(453.6 \text{ g/lb}) = 0.71 \text{ lb/hr}$

#### Sulfur Oxide Emissions

ES02 =  $[(0.0931)(320)]/(453.6 \text{ g/lb}) = 0.066 \text{ lb/hr}$

#### Carbon Monoxide Emissions

ECO =  $[(3.03)(320)]/(453.6 \text{ g/lb}) = 2.13 \text{ lb/hr}$

#### Hydrocarbon Emissions

EHC =  $[(1.14)(320)]/(453.6 \text{ g/lb}) = 0.80 \text{ lb/hr}$

#### Nitrogen Oxide Emissions

EN0x =  $[(14.0)(320)]/(453.6 \text{ g/lb}) = 9.88 \text{ lb/hr}$

### 270 H.P. Diesel Engine Emissions

#### Particulate Emissions

EPM =  $[(1.00)(270)]/(453.6 \text{ g/lb}) = 0.60 \text{ lb/hr}$

#### Sulfur Oxide Emissions

ES02 =  $[(0.0931)(270)]/(453.6 \text{ g/lb}) = 0.055 \text{ lb/hr}$

#### Carbon Monoxide Emissions

ECO =  $[(3.03)(270)]/(453.6 \text{ g/lb}) = 1.80 \text{ lb/hr}$

#### Hydrocarbon Emissions

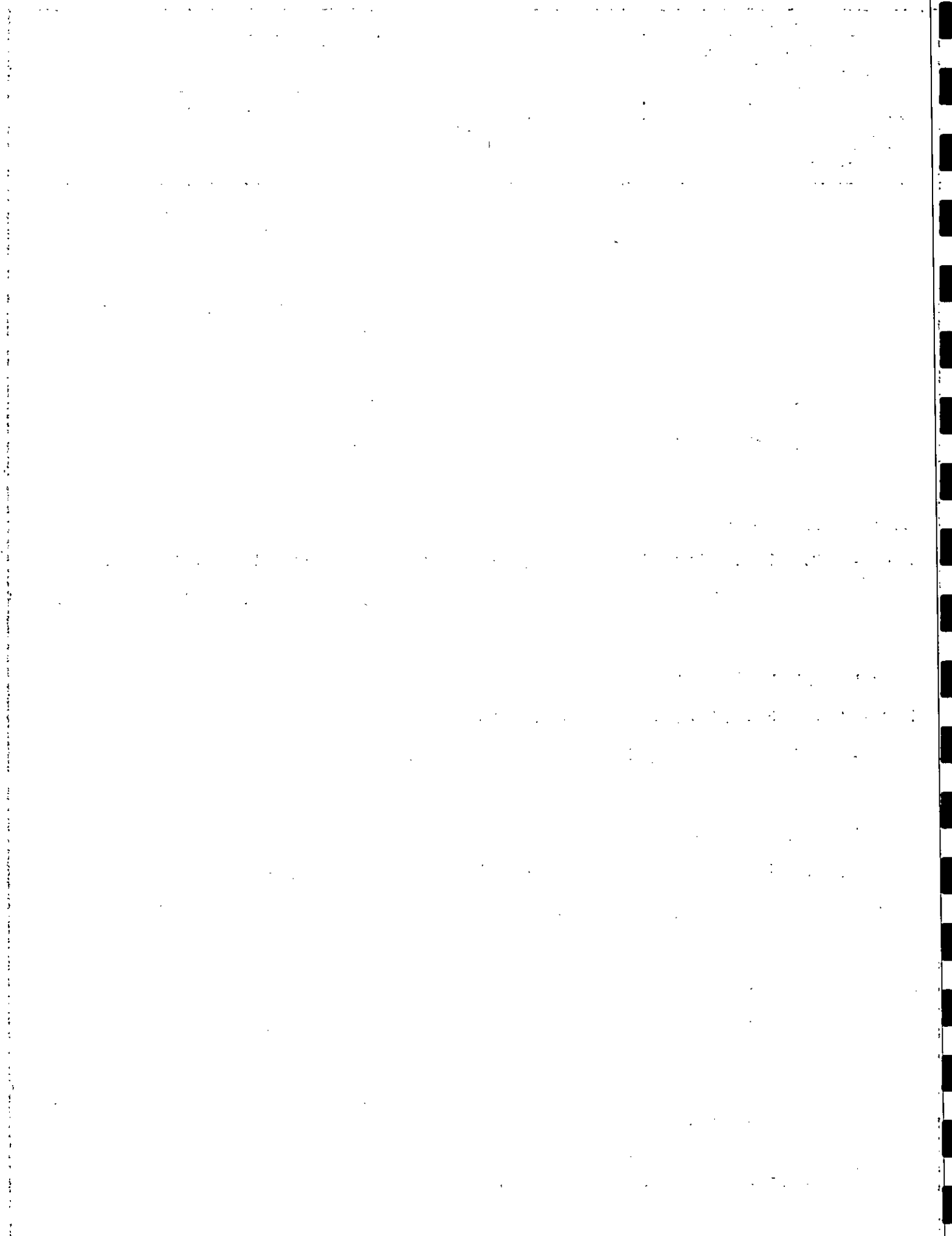
EHC =  $[(1.14)(270)]/(453.6 \text{ g/lb}) = 0.68 \text{ lb/hr}$

#### Nitrogen Oxide Emissions

EN0x =  $[(14.0)(270)]/(453.6 \text{ g/lb}) = 8.33 \text{ lb/hr}$

#### Notes:

- 1) Emission factors used for calculations based on Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines in Table 3.3-1 of AP-42 and in AP-40.





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### PARTICULATE EMISSIONS FROM FACILITY (TSP & PM10)

\* Each emission point has an area of ~ 100 ft<sup>3</sup> and an emission height of ~15 feet, with the exception of the storage pile.

#### #1 - Primary or Secondary Crushing of Moistened Material

$$\text{TSP} = (0.018 \text{ lb/ton})(150 \text{ ton/hr})(1-0.90 \text{ enclosure eff.}) = 0.27 \text{ lb/hr}$$

#### #2 - Crusher Hopper Loading Operations

$$\text{TSP} = (0.0003 \text{ lb/ton})(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 0.007 \text{ lb/hr}$$

$$\text{PM10} = (0.00002 \text{ lb/ton})(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 0.0005 \text{ lb/hr}$$

#### #3 - Conveying System

$$\text{TSP} = (0.0003 \text{ lb/ton})(150 \text{ ton/hr}) = 0.045 \text{ lb/hr}$$

$$\text{PM10} = (0.0001 \text{ lb/ton})(150 \text{ ton/hr}) = 0.015 \text{ lb/hr}$$

#### #4 - Screening Unit

$$\text{TSP} = (0.16 \text{ lb/ton})(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 3.6 \text{ lb/hr}$$

$$\text{PM10} = (0.12 \text{ lb/ton})(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 2.7 \text{ lb/hr}$$

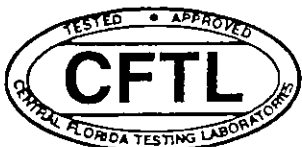
#### #5 - Continuous Drop Transfer Station

$$\text{PM10} = (0.029 \text{ lb/ton})(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 0.65 \text{ lb/hr}$$

#### Notes:

- 1) Control Efficiencies based on efficiency ratings in Section 8.19.2-4 of AP-42 also in AP-40.
- 2) Emission factors based on emission factors found in Section 8.19.2, and 8.19.1 of AP-42 also in AP-40.





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### EMISSIONS FROM AGGREGATE HANDLING AND STORAGE PILES

(includes continuous drop, equipment traffic, wind erosion and load outs)

$$E \text{ (lb/ton)} = K(0.0032) \frac{(u/5)^{1.3}}{(m/2)^{1.4}}$$

K (particle size multiplier) = 0.74 (TSP) & 0.35 (PM10)

U (mean wind speed) = 10 mph

M (material moisture content) = 7%

$$\begin{aligned} E(\text{TSP}) &= [0.74(0.0032)][(10/5)^{1.3}/(0.7/2)^{1.4}] = 0.02535 \text{ lb/ton} \\ &= 0.02535 \text{ lb/ton}(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 0.57 \text{ lb/hr} \end{aligned}$$

$$\begin{aligned} E(\text{PM}_{10}) &= [0.35(0.0032)][(10/5)^{1.3}/(0.7/2)^{1.4}] = 0.01199 \text{ lb/ton} \\ &= 0.01199 \text{ lb/ton}(150 \text{ ton/hr})(1-0.85 \text{ wet spray eff.}) = 0.27 \text{ lb/hr} \end{aligned}$$

#### Notes:

- 1) Emission Factors based on emission factors found in Section 11.3.3 of AP-42.



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150 tph Portable - Hazmag Crushing Unit  
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### TOTAL HOURLY EMISSIONS FROM FACILITY

#### Particulate

$$E_{p\text{total}} = (E \text{ crushing}) + (E \text{ Hopper Loading}) + (E \text{ conveying}) + (E \text{ screening}) + (E \text{ transfer station}) + (E \text{ storage pile \& traffic}) + (E \text{ diesel engines})$$

$$E_{p\text{total}} = (0.0270) + (0.007) + (0.045) + (3.60) + (0.65) + (0.57) + (1.31)$$

$$E_{p\text{total}} = 6.21 \text{ lb/hr}$$

#### Sulfur Dioxide - (Diesel Engines)

$$ESO_2 = (0.066 + 0.055 \text{ lb/hr}) = 0.121 \text{ lb/hr}$$

#### Carbon Monoxide - (Diesel Engines)

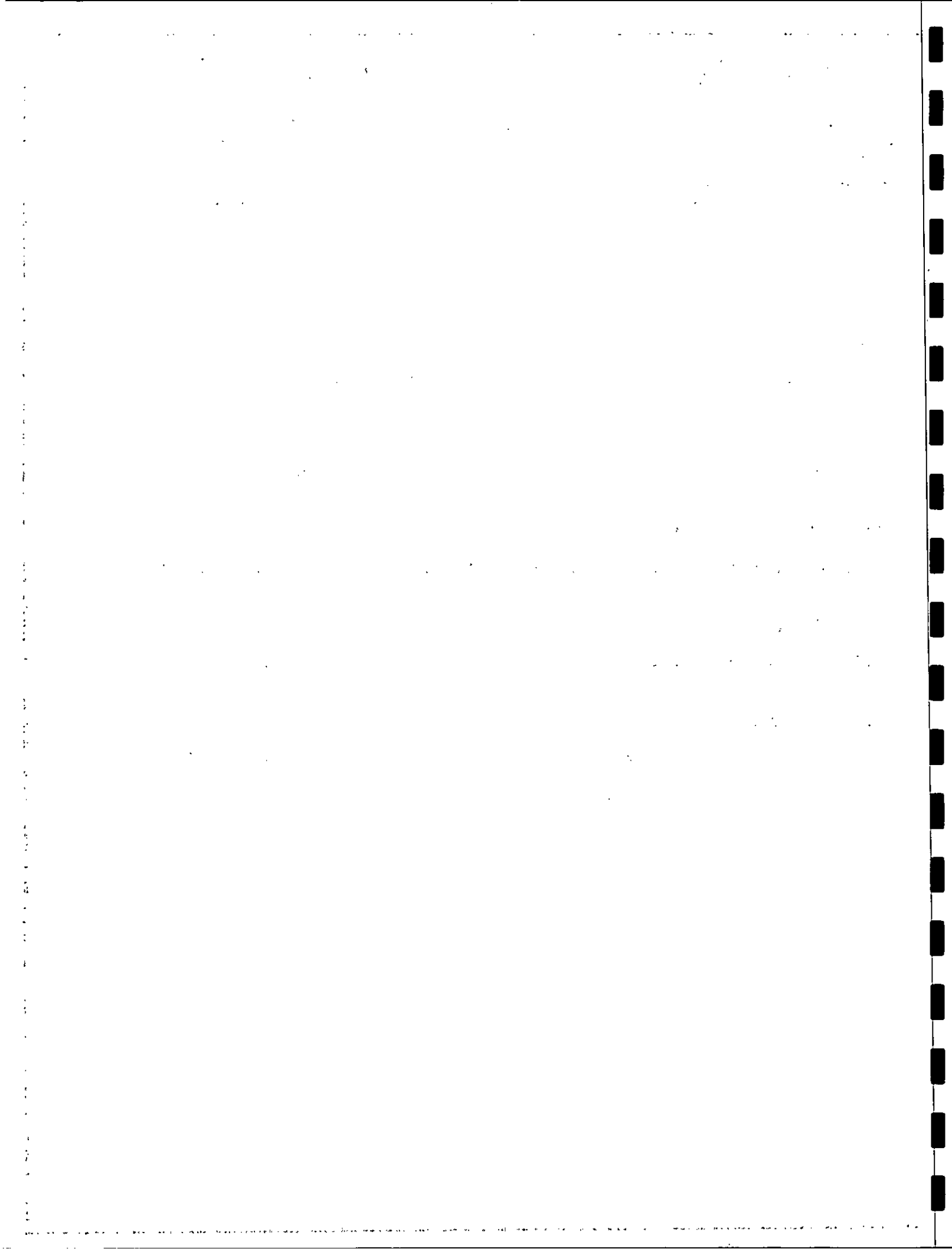
$$ECO = (2.13 + 1.80 \text{ lb/hr}) = 3.93 \text{ lb/hr}$$

#### Hydrocarbons - (Diesel Engines)

$$EHC = (0.80 + 0.68 \text{ lb/hr}) = 1.48 \text{ lb/hr}$$

#### Nitrogen Oxides - (Diesel Engines)

$$ENO_x = (9.88 + 8.33 \text{ lb/hr}) = 18.21 \text{ lb/hr}$$





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150 tph Portable - Hazmag Crushing Unit  
FDEP/HCEPC Construction Permit Application  
Calculation of Emissions

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### TOTAL YEARLY EMISSIONS

#### Particulate

$$Ep = (6.21 \text{ lb/hr})(3120 \text{ hr/yr})/2000 \text{ lb/ton} = 9.69 \text{ ton/yr}$$

#### Sulfur Dioxides

$$ESO_2 = (0.066 + 0.055 \text{ lb/hr})(3120 \text{ hr/yr})/2000 \text{ lb/ton} = 0.19 \text{ ton/yr}$$

#### Carbon Monoxide Emissions

$$ECO = (2.13 + 1.80 \text{ lb/hr})(3120 \text{ hr/yr})/2000 \text{ lb/ton} = 6.13 \text{ ton/yr}$$

#### Hydrocarbons

$$EHC = (0.80 + 0.68 \text{ lb/hr})(3120 \text{ hr/yr})/2000 \text{ lb/ton} = 2.31 \text{ ton/yr}$$

#### Nitrogen Oxides

$$ENO_x = (9.88 + 8.33 \text{ lb/hr})(3120 \text{ hr/yr})/2000 \text{ lb/ton} = 28.41 \text{ ton/yr}$$

## VI. FUEL ANALYSIS



# central company, inc.

PETROLEUM PRODUCTS

## NO. 2 FUEL OIL SPECIFICATIONS

API Gravity @ 60 Degrees F	15.58
Viscosity, SSU @ 100 Degrees F	744 Sec
Sulphur, Wt. %	.90
Flash Point	175 Degrees F
B.S. & W.	.08%
Ash, Wt. %	.03