

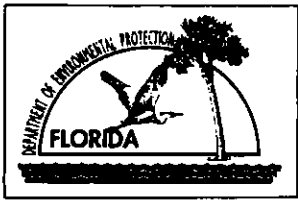
D.E.P.  
JUL 15 1997  
SOUTHWEST DISTRICT  
TAMPA

***Angelo's Recycled Materials***

***Portable Bohringer Crushing Unit***

***"District-Wide" Relocatable  
FDEP Operation Permit Application***

AO- 7770262-005



# Department of Environmental Protection

## DIVISION OF AIR RESOURCES MANAGEMENT

### APPLICATION FOR AIR PERMIT - SHORT FORM

D.E.P.  
JUL 15 1997  
SOUTHWEST DISTRICT  
TAMPA

See Instructions for Form No. 62-210.900(2)

#### I. APPLICATION INFORMATION

This section of the Application for Air Permit form provides general information on the scope of this application and the purpose for which this application is being submitted. This section also includes information on the owner or authorized representative of the facility and the necessary statements for the applicant and professional engineer, where required, to sign and date for formal submittal of the Application for Air Permit to the Department. If the application form is submitted to the Department on diskette, this section of the Application for Air Permit must also be submitted in hard-copy.

#### Identification of Facility Addressed in This Application

Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility; the facility name, if any; and a brief reference to the facility's physical location. If known, also enter the ARMS or AIRS facility identification number. This information is intended to give a quick reference, on the first page of the application form, to the facility addressed in this application. Elsewhere in the form, numbered data fields are provided for entry of the facility data in computer-input format.

### **ANGELO'S RECYCLED MATERIALS**

**(Formerly Frontier Recycling, Inc. )**

**Facility's Main Location:**

**0.8 mi. east of Nebraska Ave on Bearss, Tampa,  
Hillsborough County, Florida**


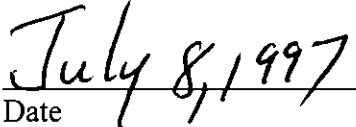
**Mailing Address:**

**Post Office Box 280226, Tampa, Florida 33682-0226**

#### Application Processing Information (DEP Use)

1. Date of Receipt of Application:	July 15, 1997
2. Permit Number:	7770262-005-AO.

**Owner/Authorized Representative**

1. Name and Title of Owner/Authorized Representative:  <b>Mr. Dominico Iafrate, President</b>
2. Owner/Authorized Representative Mailing Address:  Organization/Firm: <b>Angelo's Recycled Materials</b> Street Address: <b>Post Office Box 280226</b> City: <b>Tampa</b> State: <b>Florida</b> Zip Code: <b>33682-0226</b>
3. Owner/Authorized Representative Telephone Numbers: Telephone: <b>(352) 567-2239</b> Fax: <b>(NA)</b> Mobile : <b>(813) 625-0052</b>
4. Owner/Authorized Representative Statement:  <i>I, the undersigned, am the owner or authorized representative* of the facility (non-Title V source) addressed in this Application for Air Permit. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. Further, I agree to operate and maintain the air pollutant emissions units and air pollution control equipment described in this application so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. If the purpose of this application is to obtain an air operation permit or operation permit revision for one or more emissions units which have undergone construction or modification, I certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>   _____ Signature  _____ Date

\* Attach letter of authorization if not currently on file.

**Scope of Application**

This Application for Air Permit addresses the following emissions unit(s) at the facility. An Emissions Unit Information Section (a Section III of the form) must be included for each emissions unit listed.

<b>Emissions Unit ID</b>	<b>Description of Emissions Unit</b>
001	Bohringer Model RC14 Reclaimed Asphalt and Concrete Concrete Unit Impact Jaw Crusher (EP001) & Portable Vibrating Discharge Pan (EP004)
001	Bohringer Model RC14 Reclaimed Asphalt and Concrete Concrete Unit Grizzly Feeder (EP003) & Vibrating Screen (EP002)
001	Bohringer Model RC14 Reclaimed Asphalt and Concrete Concrete Unit Discharge Belt (EP005) & Radial Belt No. 1 (EP007)
001	Bohringer Model RC14 Reclaimed Asphalt and Concrete Concrete Unit Radial Belt No. 2 (EP008) & Radial Belt No. 3 (EP009)
001	Bohringer Model RC14 Reclaimed Asphalt and Concrete Concrete Unit 24" x 80' Discharge Belt (EP006)
002	Truck Loading & Unloading (EP010)
003	Diesel Fired Generator

**Purpose of Application**

This Application for Air Permit is submitted to obtain (check one):

- Initial air operation permit for one or more existing, but previously unpermitted, emissions units.
- Initial air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number: \_\_\_\_\_

- Air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number: \_\_\_\_\_

Operation permit to be revised: \_\_\_\_\_

- Air operation permit renewal.

Operation permit to be renewed: \_\_\_\_\_

**Application Processing Fee**

Check one:

Attached - Amount: \$ 1000.00

Not Applicable.

\* **similiar source**

**Construction/Modification Information**

1. Description of Alterations:

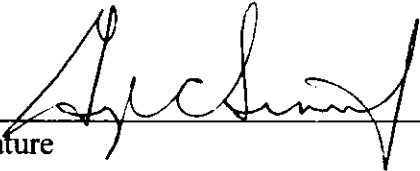
**This crushing unit remains the same as stated in the FDEP "after-the-fact" Construction Permit Application; no changes have been made to this unit.**

**The only alteration to their original application is that it was permitted under the name Frontier Recycling, Inc. (a division of Sanfill of Florida, Inc.) it has recently been purchased by Angel's Recycled Materials and the main location of the crusher and recycling site will be the permitted Bears Avenue, Tampa, Hillsborough County location.**

2. Date of Commencement of Construction (DD-MON-YYYY):

**Existing Source - Not Applicable**

**Professional Engineer Certification**

1. Professional Engineer Name: <b>Mr. George C. Sinn, Jr., P.E.</b>  Registration Number: <b>16911</b>
2. Professional Engineer Mailing Address:  Organization/Firm: <b>Central Florida Testing Laboratories, Inc.</b> Street Address: <b>1400 Starkey Road</b> City: <b>Tampa</b> State: <b>Florida</b> Zip Code: <b>33771</b>
3. Professional Engineer Telephone Numbers: Telephone: <b>(813) 581-7019</b> Fax: <b>(813) 585-2222</b>
4. Professional Engineer Statement:  <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i>  <i>(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and</i>  <i>(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.</i>  Signature  Date <u>6-9-97</u>  (seal)

\* Attach any exception to certification statement.

\*\* *With the exception of any manufacturer's guarantees on control equipment used at this facility*

**REVISED BY CFTL, INC. on 06/05/97 to include exception clause.**

**Application Contact**

1. Name and Title of Application Contact:  <b>Mr. Bernard A. Ball, Jr., Environmental Specialist</b>
2. Application Contact Mailing Address:  Organization/Firm: <b>Central Florida Testing Laboratories, Inc.</b> Street Address: <b>1400 Starkey Road</b> City: <b>Largo</b> State: <b>Florida</b> Zip Code: <b>33771</b>
3. Application Contact Telephone Numbers: Telephone: <b>(813) 581-7019</b> Fax: <b>(813) 585-2222</b>

**Application Comment**

**This project consists of an existing, portable reclaimed asphalt and concrete crushing plant recently purchased by Angelo's Recycled Materials. The main and office location of this recycling and crushing facility will be the Bearss Avenue site in Tampa, Hillsborough County, Florida, with the option of other locations listed in the "after-the-fact" construction permit. The fugitive emissions generated from the processing, crushing and conveying of the reclaimed material are controlled by a Chem-Jet Dust Suppression Chemical and water spray bar and spray head system on all fugitive emissions points throughout the crushing and conveying system. All fugitive emissions from uncrushed stockpiles, vehicular traffic and plant grounds are controlled by continuous operation of a water truck. This application is to obtain a "District Wide" FDEP Operation Permit for this crushing unit. This facility will comply with all FDEP Rules and Regulations.**

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

**Facility Name, Location, and Type**

1. Facility Owner or Operator: <b>Angelo's Recycled Materials</b>			
2. Facility Name: <b>Angelo's Recycled Materials</b>			
3. Facility Identification Number: <span style="float: right;">[ <input type="checkbox"/> ] Unknown</span> <b>7770262</b>			
4. Facility Location Information: Facility Street Address: <b>Post Office Box 280226</b> City: <b>Tampa</b> County: <b>Hillsborough</b> Zip Code: <b>33682-0226</b>			
5. Facility UTM Coordinates: <b>17- 325.8 E, 3087.0 N - 20<sup>th</sup> Ave., Largo</b> <b>17- 333.9 E, 3084.8 N - 118<sup>th</sup> Ave., Clearwater</b> <span style="float: right;"><b>17-357.6 E, 3107.6 N - Tampa</b></span> <b>17- 327.3 E, 3096.2 N. - Hercules Ave., Clearwater</b>			
6. Facility Latitude/Longitude: <b>27°53'55" 82°46'13" - Largo,</b> <span style="float: right;"><b>28°05'16" 82°56'58" - Tampa</b></span> <b>27°52'48" 82°41'15" - 118<sup>th</sup> Clearwater</b> <span style="float: right;"><b>27°58'55" 82°45'20" - Hercules</b></span>			
7. Governmental Facility Code: <b>0</b>	8. Facility Status Code: <b>Active</b>	9. Relocatable Facility? [X] Yes [ ] No	10. Facility Major Group SIC Code: <b>14</b>
11. Facility Comment: <i>This facility was formerly permitted under the name Frontier Recycling, Inc., It has recently been purchased by Angelo's Recycled Materials.</i>			

**Facility Contact**

1. Name and Title of Facility Contact: <b>Mr. Bob Coble, General Manager</b>			
2. Facility Contact Mailing Address: Organization/Firm: <b>Angelo's Recycled Materials</b> Street Address: <b>Post Office Box 280226</b> City: <b>Tampa</b> State: <b>Florida</b> Zip Code: <b>33682-0226</b>			
3. Facility Contact Telephone Numbers: Telephone: <b>(352) 567-2239</b> Fax: <b>NA</b> Mobile : <b>(813) 625-0052</b>			



**Facility Regulatory Classifications**

1. Small Business Stationary Source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown
2. Title V Source? <input checked="" type="checkbox"/> No
3. Synthetic Non-Title V Source by Virtue of Previous Air Construction Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Construction Permit Number/Issue Date: <u>7770262-001-AC</u>
4. Facility Regulatory Classifications Comment:  <p style="text-align: center;"><b>This facility is a minor source.</b></p>

**B. FACILITY SUPPLEMENTAL INFORMATION**

This subsection of the Application for Air Permit form provides supplemental information related to the facility as a whole. (Supplemental information related to individual emissions units within the facility is provided in Subsection III-B of the form.) Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

**Supplemental Requirements for All Applications**

1. Area Map Showing Facility Location: <input checked="" type="checkbox"/> Attached, Document ID: <u>I</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Facility Plot Plan: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested <b>* On file at FDEP's Office</b>
3. Process Flow Diagram(s): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested <b>* On file at FDEP's Office</b>
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: <input checked="" type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested <b>* On file at FDEP's Office</b>

### III. EMISSIONS UNIT INFORMATION

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

#### A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

##### Type of Emissions Unit Addressed in This Section

Check one:

- This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
- This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
- This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
- This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

**Emissions Unit Section No. 1 of 3**

**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section:  <p><b>The emissions unit addressed in this section consists of a the Impact Jaw Crusher of the Bohringer Model RC-14 Concrete and Reclaimed Asphalt Crushing Unit. Any emissions generated from nine (9) various emissions points throughout the crushing unit are fugitive and are controlled by dampening the material that is going to be crushed and by a Chem-Jet Dust Supression water spray bar system and spray heads located at everyone of the above mentioned fugitive emission points.</b></p>	
2. ARMS Identification Number: <input type="checkbox"/> No Corresponding ID <input checked="" type="checkbox"/> Unknown	
3. Emissions Unit Status Code: <b>Active</b>	4. Emissions Unit Major Group SIC Code: <b>14</b>
5. Initial Startup Date (DD-MON-YYYY): <b>Not Applicable, existing source</b>	
6. Long-term Reserve Shutdown Date (DD-MON-YYYY): <b>Not Applicable</b>	
7. Package Unit: <b>Crushing Unit / Chem-Jet Chemical Spray Bar Dust Supression System</b> Manufacturer: <b>Bohringer / Chem-Jet</b> Model Number: <b>RC14 / NA</b>	
8. Generator Nameplate Rating: <b>Not Applicable</b> MW	
9. Incinerator Information: <b>This section not applicable</b> Dwell Temperature:     °F Dwell Time:     seconds Incinerator Afterburner Temperature :     °F	
10. Emissions Unit Comment:	

**Emissions Unit Control Equipment**

<p>1. Description:  <b>The emissions unit addressed in this section consists of a the Impact Jaw Crusher of the Bohringer Model RC-14 Concrete and Reclaimed Asphalt Crushing Unit. Any emissions generated from nine (9) various emissions points throughout the crushing unit are fugitive and are controlled by dampening the material that is going to be crushed and by a Chem-Jet Dust Supression water spray bar system and spray heads located at everyone of the above mentioned fugitive emission points.</b></p>	
<p>2. Control Device or Method Code(s):</p>	<p><b>061, 099</b></p>

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate: NA	mmBtu/hr
2. Maximum Incineration Rate: NA	lb/hr
3. Maximum Process or Throughput Rate: <b>200 tph</b>	tons/day
4. Maximum Production Rate: <b>200 tph</b>	
<p>5. Operating Capacity Comment: <b>Chem-Jet Dust Supression Chemical Water Spray Bar Dust Supression System usually feeds water to spray heads at 135-140 psi.</b></p>	

**Emissions Unit Operating Schedule**

Requested Maximum Operating Schedule:	
hours/day <b>10</b>	days/week <b>6</b>
weeks/year <b>52</b>	hours/year <b>3120</b>

**B. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

**Supplemental Requirements for All Applications**

<p>1. Process Flow Diagram  <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable [<b>*X</b>] Waiver Requested  <b>* on file at FDEP's Office.</b></p>
<p>2. Fuel Analysis or Specification  <input checked="" type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>3. Detailed Description of Control Equipment  <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable [<b>*X</b>] Waiver Requested  <b>* on file at FDEP's Office.</b></p>
<p>4. Description of Stack Sampling Facilities  <input type="checkbox"/> Attached, Document ID: _____ [<b>X</b>] Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>5. Compliance Test Report  <input checked="" type="checkbox"/> Attached, Document ID: <u>III</u>  <input type="checkbox"/> Previously submitted, Date: _____  <input type="checkbox"/> Not Applicable</p>
<p>6. Procedures for Startup and Shutdown  <input type="checkbox"/> Attached, Document ID: _____ [<b>X</b>] Not Applicable</p>
<p>7. Operation and Maintenance Plan  <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable [<b>*X</b>] Waiver Requested  <b>* On file at FDEP's Office.</b></p>
<p>8. Other Information Required by Rule or Statute  <input checked="" type="checkbox"/> Attached, Document ID: <u>IV, V</u> <input type="checkbox"/> Not Applicable</p>

### III. EMISSIONS UNIT INFORMATION

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

#### A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

##### Type of Emissions Unit Addressed in This Section

Check one:

- [X ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
- [ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
- [ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
- [ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section:  <b>The emissions unit addressed in this section consists of a Caterpillar 545 kW, Generator Set fired on No.2 Virgin Diesel Fuel. This generator set is utilized to supply power to the 300 H.P. electric motor that operates the crusher and to various electrically operated belts, etc. throughout the crushing plant. The emissions that are generated by this generator set are uncontrolled.</b>	
2. ARMS Identification Number: <input type="checkbox"/> No Corresponding ID <input checked="" type="checkbox"/> Unknown	
3. Emissions Unit Status Code: <b>Active</b>	4. Emissions Unit Major Group SIC Code: <b>14</b>
5. Initial Startup Date (DD-MON-YYYY): <b>Not Applicable, existing source</b>	
6. Long-term Reserve Shutdown Date (DD-MON-YYYY): <b>Not Applicable</b>	
7. Package Unit: <b>Generator Set - 545 kW</b>	
8. Manufacturer: <b>Caterpillar Machinery Co.</b> Model Number: <b>NA</b>	
8. Generator Nameplate Rating: <b>545 kW</b>	
9. Incinerator Information: <b>This section not applicable</b>	
Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature :	°F
10. Emissions Unit Comment:	

**Emissions Unit Section No. 2 of 3**

**Emissions Unit Control Equipment**

1. Description: <b>The emissions from this Caterpillar Diesel fired Generator Set are uncontrolled, Sulfur Dioxide Emissions are controlled by limiting the sulfur rates.</b>
2. Control Device or Method Code(s): <p style="text-align: center;"><b>NA</b></p>

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate: <b>NA</b>	mmBtu/hr	
2. Maximum Incineration Rate: <b>NA</b>	lb/hr	tons/day
3. Maximum Process or Throughput Rate: <b>45 gal/hr</b>		
4. Maximum Production Rate: <b>45 gal/hr</b>		
5. Operating Capacity Comment:		

**Emissions Unit Operating Schedule**

Requested Maximum Operating Schedule:			
	hours/day <b>10</b>		days/week <b>6</b>
		weeks/year <b>52</b>	hours/year <b>3120</b>



**B. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

**Supplemental Requirements for All Applications**

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable [ <b>*X</b> ] Waiver Requested <b>* on file at FDEP's Office.</b>
2. Fuel Analysis or Specification <input checked="" type="checkbox"/> Attached, Document ID: <u>II</u> <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable [ <b>*X</b> ] Waiver Requested <b>* on file at FDEP's Office.</b>
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input checked="" type="checkbox"/> Attached, Document ID: <u>III</u> <input type="checkbox"/> Previously submitted, Date: _____ <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable [ <b>*X</b> ] Waiver Requested <b>* On file at FDEP's Office.</b>
8. Other Information Required by Rule or Statute <input checked="" type="checkbox"/> Attached, Document ID: <u>IV, V</u> <input checked="" type="checkbox"/> Not Applicable

### III. EMISSIONS UNIT INFORMATION

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

#### A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

##### Type of Emissions Unit Addressed in This Section

Check one:

- This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
- This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
- This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
- This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section:  <p><b>The emissions units addressed in this section consists of truck loading of crushed material by a front end loader and truck unloading of reclaimed material from jobsites to be processed by the crusher. The emissions that are generated by these processes are uncontrolled and are fugitive with the exception that stockpiles are kept damp to control fugitive emissions.</b></p>	
2. ARMS Identification Number: [ ] No Corresponding ID [X] Unknown	
3. Emissions Unit Status Code: <b>Active</b>	4. Emissions Unit Major Group SIC Code: <b>14</b>
5. Initial Startup Date (DD-MON-YYYY): <b>Not Applicable, existing source</b>	
6. Long-term Reserve Shutdown Date (DD-MON-YYYY): <b>Not Applicable</b>	
9. Package Unit: <b>Truck Loading / Unloading</b>	
10. Manufacturer:	Model Number: <b>NA</b>
8. Generator Nameplate Rating:	
9. Incinerator Information: <b>This section not applicable</b>	
Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature :	°F
10. Emissions Unit Comment:	

**Emissions Unit Control Equipment**

1. Description: <b>The emissions from Truck Loading and Unloading are uncontrolled, with the exception that all stockpiles are kept damp to control fugitive emissions. Careful work practice relayed by Angelo's Recycled Materials Personnel to by both truck drivers and loader operators as to control fugitive emissions on site also.</b>
2. Control Device or Method Code(s): <p style="text-align: center;">NA</p>

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate: NA	mmBtu/hr	
2. Maximum Incineration Rate: NA	lb/hr	tons/day
3. Maximum Process or Throughput Rate: AS NEEDED		
4. Maximum Production Rate: NA		
11. Operating Capacity Comment: <b>All trucks coming into this facility are weighed the directed to the dump spot and also informed on careful work practice as not to cause excessive fugitive emissions.</b>		

**Emissions Unit Operating Schedule**

Requested Maximum Operating Schedule:		
Hours/day 10		days/week 6
	weeks/year 52	hours/year 3120

**B. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

**Supplemental Requirements for All Applications**

<p>1. Process Flow Diagram  <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable [<b>*X</b>] Waiver Requested  <b>* on file at FDEP's Office.</b></p>
<p>2. Fuel Analysis or Specification  <input checked="" type="checkbox"/> Attached, Document ID: <u>II</u> <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>3. Detailed Description of Control Equipment  <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable [<b>*X</b>] Waiver Requested  <b>* on file at FDEP's Office.</b></p>
<p>4. Description of Stack Sampling Facilities  <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>5. Compliance Test Report  <input checked="" type="checkbox"/> Attached, Document ID: <u>III</u>  <input type="checkbox"/> Previously submitted, Date: _____  <input checked="" type="checkbox"/> Not Applicable</p>
<p>6. Procedures for Startup and Shutdown  <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>7. Operation and Maintenance Plan  <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable [<b>*X</b>] Waiver Requested  <b>* On file at FDEP's Office.</b></p>
<p>8. Other Information Required by Rule or Statute  <input checked="" type="checkbox"/> Attached, Document ID: <u>IV, V</u> <input checked="" type="checkbox"/> Not Applicable</p>

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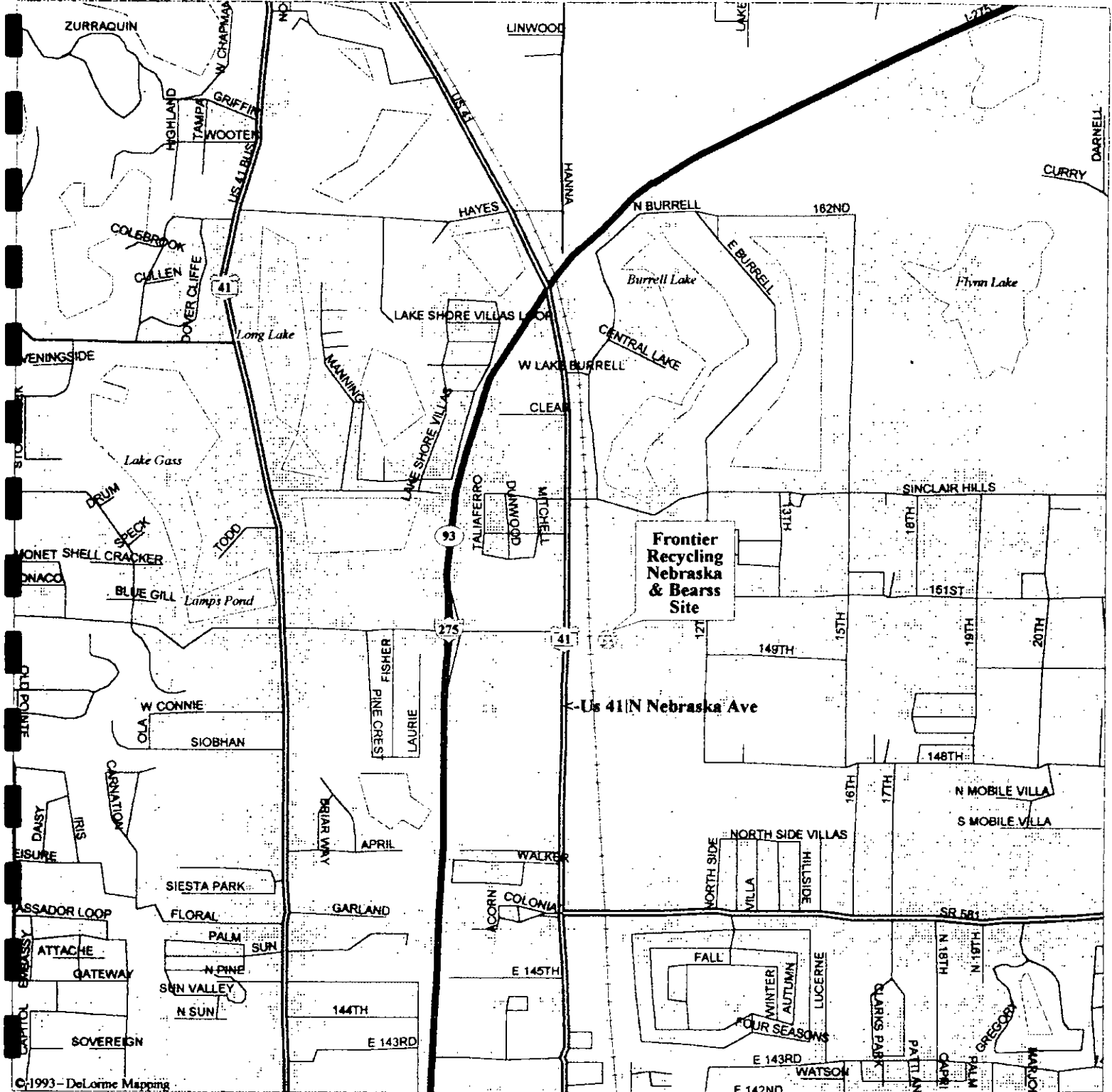
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**IV. WEIGH TICKETS FOR PROCESS  
WEIGHT DETERMINATION**

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**I. AREA MAP**



- LEGEND**
- State Route
  - Interstate, Turnpike
  - US Highway
  - Population Center
  - Street, Road
  - Hwy Ramp
  - Major Street/Road
  - Interstate Highway
  - Open Water
  - Railroad

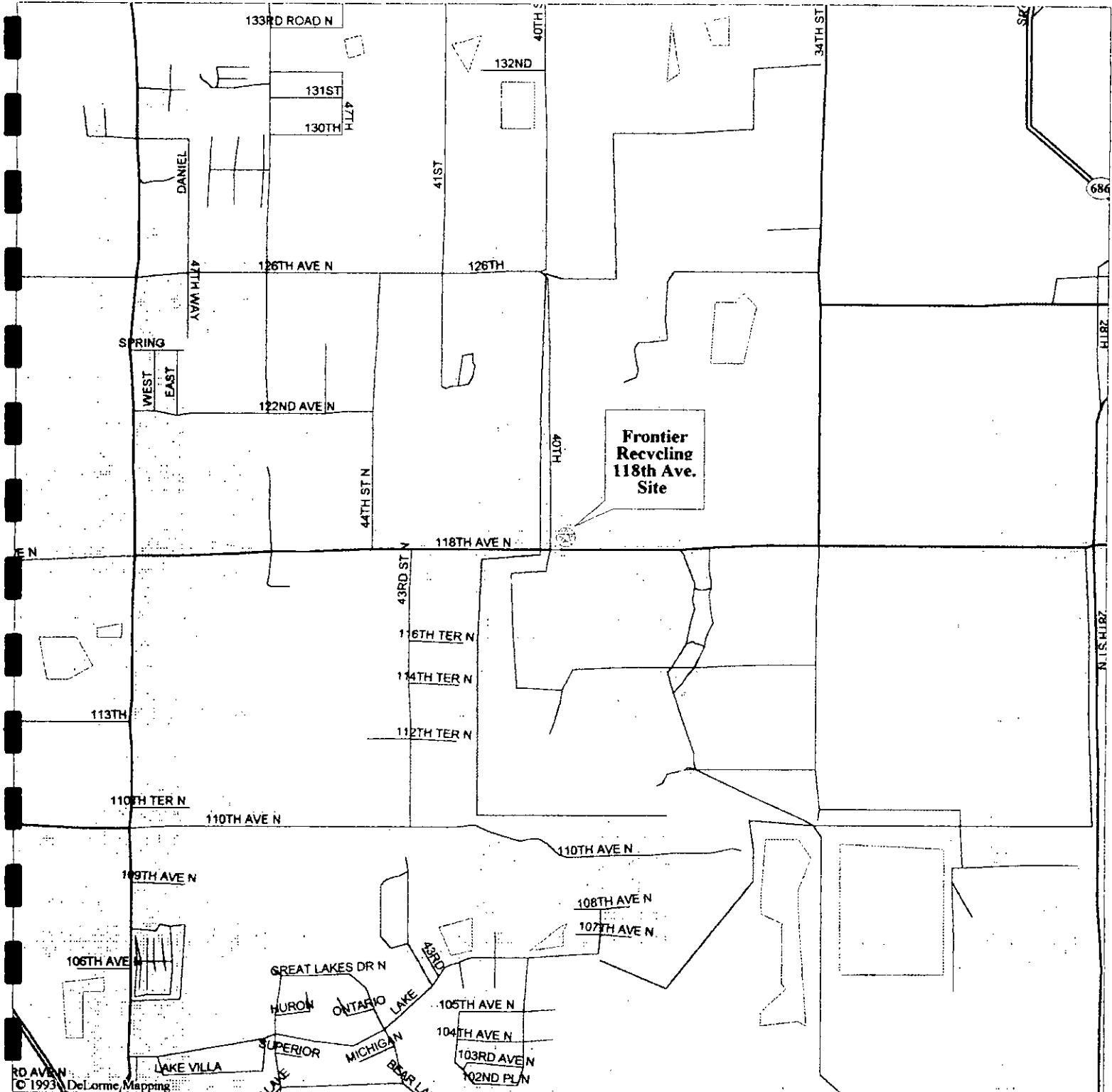
Scale 1:15,625 (at center)

— 1000 Feet —

— 500 Meters —

Mag 15.00  
 Mon Oct 02 10:07:28 1995





© 1993 DeLorme Mapping

- LEGEND**
- State Route
  - Population Center
  - Street, Road
  - Hwy Ramp
  - Major Street/Road
  - State Route
  - US Highway
  - River

Open Water

Scale 1:15,625 (at center)

1000 Feet

500 Meters

Mag 15.00  
 Mon Oct 02 09:49:04 1995

**II. FUEL ANALYSIS FOR  
GENERATOR SET**

McMULLEN OIL CO.  
11985 - 49th STREET N.  
CLEARWATER, FL 34627

*Bob Coble*

42.06 4/88  
Diesel Fuels

*Frontier Fuel Oil Analysis*

CHEVRON DIESEL FUEL NO. 2

TYPICAL TEST DATA\*

Tests	Richmond	El Segundo	<i>X</i> Pasadena	Salt Lake	El Paso	Rowell	Phi- delphia	Alaska	Special Blend El Segundo	Port Arthur
Gravity, °API	31.7	32.0	32.0	30.8	32.8	32.8	34.1	33.8	35.0	31.7
Flash, Pensky-Martens, °C(°F)	100 (212)	81 (178)	77 (170)	68 (158)	78 (188)	116 (240)	66 (151)	68 (154)	71 (160)	85 (184)
Kinematic Viscosity at 40°C, cSt	4.0	3.7	2.8	2.8	3.1	4.1	3.2	3.6	3.8	3.2
Cloud Point, °C(°F):										
Summer	-7 (+20)	-8 (+18)	-10 (+14)	-7 (+20)	-10 (+14)	+4 (+40)	-8 (+15)	-9 (+10)	-9 (+10)	-8 (+15)
Winter***	8 (+18)	10 (+14)	11 (+12)	-17 (+2)	-18 (0)	+4 (+40)	-8 (+15)	-10 (+4)	-17 (+10)	-8 (+15)
Pour Point, °C(°F):										
Summer	-8 (+15)	-12 (+10)	-12 (+10)	-8 (+15)	-10 (0)	+1 (+30)	-10 (0)	-12 (+10)	-12 (+10)	-10 (0)
Winter	-18 (0)	-12 (+10)	-18 (0)	-18 (0)	-32 (-25)	+1 (+30)	-10 (0)	-40 (-40)	-18 (0)	-18 (0)
Sulfur, Mass %	0.30	0.45	0.38	0.24	0.48	0.31	0.17	0.40	0.03	0.19
Corrosion, 3 Hrs. at 100°C	1									
Sediment & Water, Volume %	Less than 0.05									
Carbon Residue (10% botts), Mass %	0.15	0.10	0.10	0.14	0.12	0.04	0.13	0.12	0.15	0.17
Ash, Mass %	Less than 0.01									
Color, ASTM	1.5	2.0	1.8	1.5	1.8	2.0	0.5	0.5	1.0	1.0
Cetane	45	48	48	48	47	54	48	48	47	43
ASTM Distillates, °C(°F)**										
10% Recovered	284 (480)	280 (482)	230 (448)	218 (410)	225 (437)	272 (522)	235 (455)	172 (341)	227 (440)	243 (470)
50% Recovered	268 (510)	282 (540)	277 (530)	263 (478)	277 (530)	297 (565)	274 (526)	236 (451)	271 (520)	278 (533)
90% Recovered	324 (615)	310 (590)	326 (618)	292 (558)	335 (635)	322 (612)	313 (600)	289 (552)	304 (580)	316 (601)
End Point	346 (654)	329 (624)	350 (662)	305 (575)	383 (686)	343 (650)	340 (644)	347 (657)	327 (620)	338 (642)
BTU per Pound, Gross	19,440	19,520	19,440	19,700	19,530	19,840	19,800	19,500	19,810	19,500
BTU per Gallon, Gross	138,800	138,580	138,800	139,800	138,650	140,800	138,000	138,440	138,800	138,480
Vapor Pressure at 37.8°C, PSIA	0.04									

*this one*

\* Subject to change without notice. Not to be guaranteed.  
 \*\* El Paso Distillations corrected to sea level.  
 \*\*\* Winter Cloud Points tailored to meet local requirements during distribution in most areas.



McMULLEN OIL CO.  
11885 - 49th STREET N.  
CLEARWATER, FL 34622

8/85 42.05  
Diesel Fuels

## CHEVRON DIESEL FUEL NO. 2 (CPS 272102)

**TYPICAL TEST DATA:** Refer to Typical Tests on reverse side.

### PRODUCT DESCRIPTION

A carefully refined, high quality "regular" diesel fuel, ASTM No. 2-D Grade.

Rust preventive qualities provide rust protection for the fuel system, including fuel storage tanks.

Meets the requirements of ASTM D975 for a grade 2-D fuel. Also meets the requirements of ASTM D2880 for a No. 2-GT fuel (refer inquiries to Headquarters if a guarantee of trace metals content is requested).

Meets the requirements of Federal Specification VV-F-800C for grade DF-2 in most respects, however some exceptions may be required. Contact Headquarters before bidding.

### TYPICAL USES

Used in all popular makes of high-speed diesel engines.

An "all-purpose" diesel fuel meeting the performance requirements of major diesel engine manufacturers.

Suitable for use as a gas turbine fuel oil in industrial turbine applications when a No. 2-GT fuel is specified.

### CUSTOMER BENEFITS

**TOP ECONOMY.** High heat content means high miles-per-gallon of fuel consumed.

**RUST PROTECTIVE QUALITIES** reduce rusting of any part of the fuel system, including storage tanks.

**CLEAN BURNING** and **LESS SMOKE** because injectors remain cleaner.

**QUALITY** assured by rigid refinery control.

**HIGH CETANE RATING** for top engine performance.

### WARNING STATEMENT

**DANGER! HARMFUL OR FATAL IF SWALLOWED. COMBUSTIBLE. PROLONGED OR REPEATED CONTACT WITH SKIN CAN BE HARMFUL. KEEP OUT OF REACH OF CHILDREN.**

Contains Petroleum Distillate. DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. Keep container closed. Clean up spills immediately. Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 85°F.

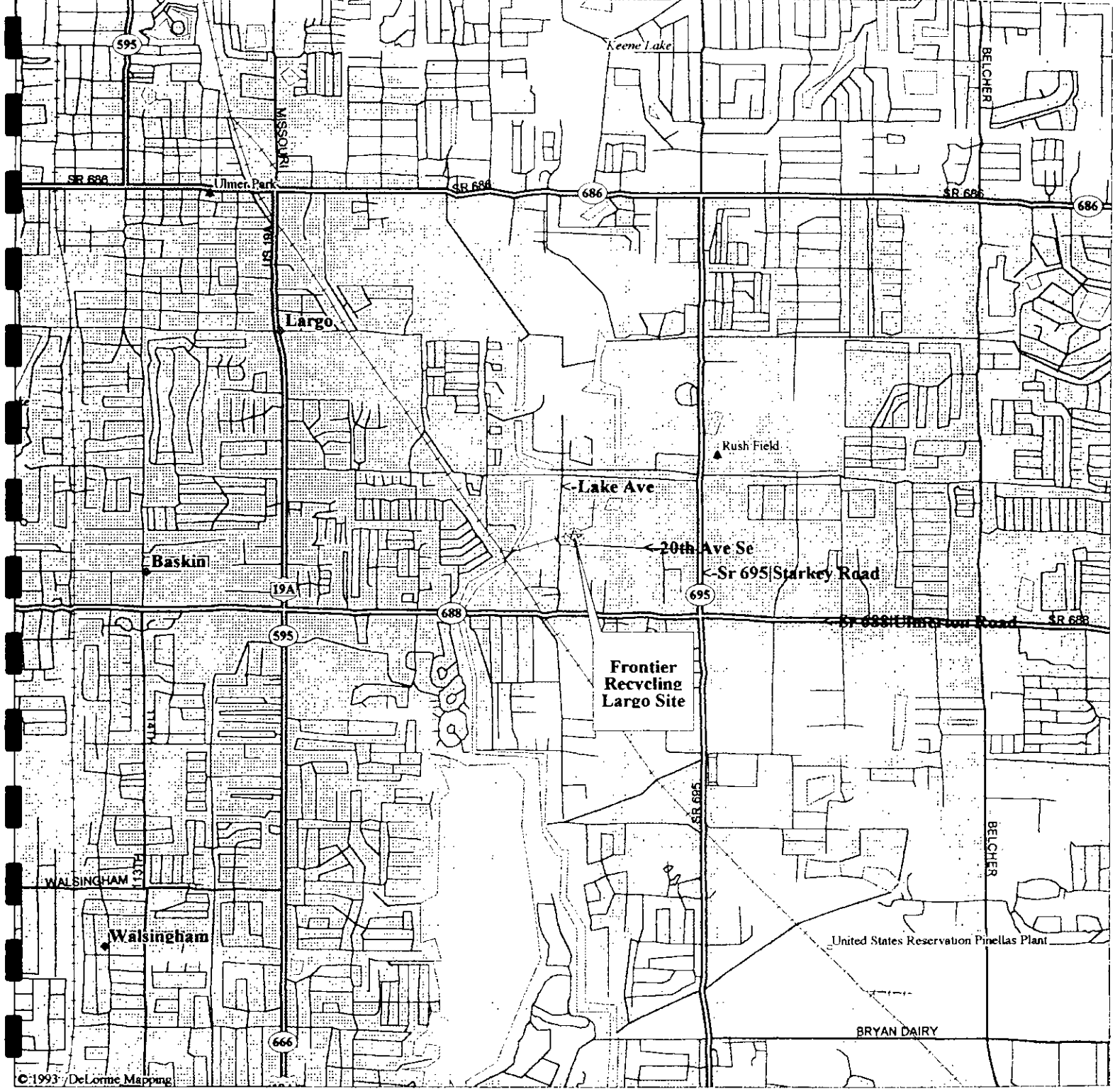
Not for use as portable heater or appliance fuel. Toxic fumes may accumulate and cause death.

Avoid prolonged or repeated breathing of vapor or contact with skin or eyes.

**FIRST AID:** If swallowed, DO NOT MAKE PERSON VOMIT. CALL A DOCTOR IMMEDIATELY. If overcome by vapor, MOVE PATIENT TO FRESH AIR. IF NOT BREATHING, APPLY ARTIFICIAL RESPIRATION AND CALL A DOCTOR. Note to physician: This product can cause central nervous system depression. Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid which can cause pneumonitis.

See Chevron Material Safety Data Sheet No. CPS 272102 for further details regarding safe use of this product. Available from your Chevron supplier.





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**LEGEND**

- |  |                   |  |             |
|--|-------------------|--|-------------|
|  | State Route       |  | State Route |
|  | Geo Feature       |  | US Highway  |
|  | Town, Small City  |  | Railroad    |
|  | Park              |  | River       |
|  | US Highway        |  | Open Water  |
|  | Population Center |  |             |
|  | Street, Road      |  |             |
|  | Major Street/Road |  |             |

Scale 1:31,250 (at center)

— 2000 Feet —

— 1000 Meters —

Mag 14.00  
Mon Oct 02 10:15 18 1995



- LEGEND**
- State Route
  - Park
  - Population Center
  - Street, Road
  - Major Street/Road
  - State Route
  - Railroad
  - River

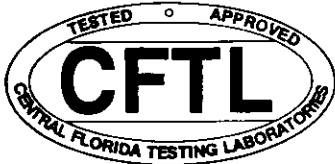
Open Water

Scale 1:15,625 (at center)  
 1000 Feet  
 500 Meters

mag 13.00  
 Mon Oct 02 09:40:23 1995

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**III. INITIAL VISIBLE EMISSIONS  
COMPLIANCE TESTS**



# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

*Crusher (EP No. 1)*

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER \_\_\_\_\_ PAGE 1 OF 3

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755-20th Ave., S.E. CITY Largo  
 MAILING ADDRESS Post Office Box 1493  
 CITY Largo STATE FL ZIP 34649  
 PHONE/KEY CONTACT \_\_\_\_\_ SOURCE PERMIT NUMBER 7770262-001-AC

CONTINUED ON VBO NUMBER \_\_\_\_\_

OBSERVATION DATE 04-11-97 START TIME 7:44 AM END TIME 8:44 AM

PROCESS EQUIPMENT Rollinger Portable Crushing Unit - Crusher OPERATING MODE 200TPH  
 CONTROL EQUIPMENT Chem-Jet Dust Suppression System OPERATING MODE Cont

MIN	SEC	0	15	30	45	MIN	SEC	0	15	30	45
1	0	0	0	0	0	31	0	0	0	0	0
2	0	0	0	0	0	32	0	0	0	0	0
3	0	0	0	0	0	33	0	0	0	0	0
4	0	0	0	0	0	34	0	0	0	0	0
5	0	0	0	0	0	35	0	0	0	0	0
6	0	0	0	0	0	36	0	0	0	0	0
7	0	0	0	0	0	37	0	0	0	0	0
8	0	0	0	0	0	38	0	0	0	0	0
9	0	0	0	0	0	39	0	0	0	0	0
10	0	0	0	0	0	40	0	0	0	0	0
11	0	0	0	0	0	41	0	0	0	0	0
12	0	0	0	0	0	42	0	0	0	0	0
13	0	0	0	0	0	43	0	0	0	0	0
14	0	0	0	0	0	44	0	0	0	0	0
15	0	0	0	0	0	45	0	0	0	0	0
16	0	0	0	0	0	46	0	0	0	0	0
17	0	0	0	0	0	47	0	0	0	0	0
18	0	0	0	0	0	48	0	0	0	0	0
19	0	0	0	0	0	49	0	0	0	0	0
20	0	0	0	0	0	50	0	0	0	0	0
21	0	0	0	0	0	51	0	0	0	0	0
22	0	0	0	0	0	52	0	0	0	0	0
23	0	0	0	0	0	53	0	0	0	0	0
24	0	0	0	0	0	54	0	0	0	0	0
25	0	0	0	0	0	55	0	0	0	0	0
26	0	0	0	0	0	56	0	0	0	0	0
27	0	0	0	0	0	57	0	0	0	0	0
28	0	0	0	0	0	58	0	0	0	0	0
29	0	0	0	0	0	59	0	0	0	0	0
30	0	0	0	0	0	60	0	0	0	0	0

DESCRIBE EMISSION PT. Hole in Top of Crusher were oversize product is loaded into

DISTANCE TO EMISS. PT. START 60' END Same DIRECTION TO EMISS. PT. (DEGREES) START 260°SW END Same

HEIGHT OF EMISS. PT. START 10' END Same HEIGHT TO EMISS. PT. REL. TO OBSERVER START 5' END Same

VERTICAL ANGLE TO OBS. PT. START 2° END Same DIRECTION TO OBS. PT. (DEGREES) START 260°SW END Same

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START 60' ~ 260°SW END Same

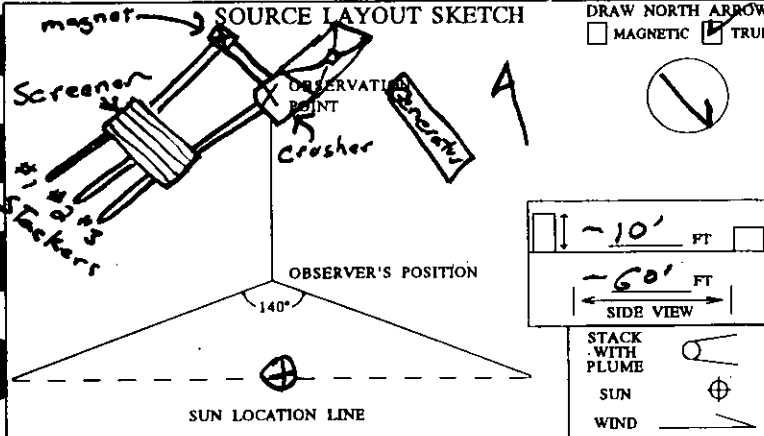
DESCRIBE EMISSIONS START None END Same  
 EMISSION COLOR START N/A END Same WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Green/Brown trees END Same

BACKGROUND COLOR START Green/Brown END Same SKY CONDITIONS START Cloudy END Same

WIND SPEED START 1-3mph END Same WIND DIRECTION START NE END Same

AMBIENT TEMPERATURE START 75.4 END 76.2 WET BULB TEMP. START \_\_\_\_\_ END 87%



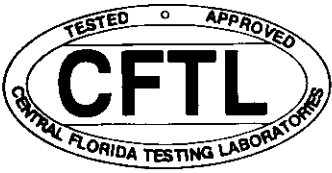
LAT: \_\_\_\_\_ LONG: \_\_\_\_\_ DECLINATION 0

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

ADDITIONAL INFORMATION  
NO objectionable odors, no fugitive emissions detected. See process weight table for process weight & Determinations.  
Water truck spraying facility grounds  
Chem Jet system @ 135-137 PSI

OBSERVER'S NAME (PRINT) Anthony A. Sesin  
 OBSERVER'S SIGNATURE Anthony M. Sesin DATE 4/11/97  
 ORGANIZATION CFTL  
 CERTIFIED BY ETA Tempe DATE 2-26-97





**CENTRAL FLORIDA TESTING LABORATORIES, INC.**  
**VISIBLE EMISSIONS OBSERVATION FORM**

*Crusher (EP No. 1)*

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER \_\_\_\_\_ PAGE 2 OF 3

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755-20th Ave., S.E. CITY Largo  
 MAILING ADDRESS Post Office Box 1493  
 CITY Largo STATE FL ZIP 34649  
 PHONE/KEY CONTACT \_\_\_\_\_ SOURCE PERMIT NUMBER 7770262-001-AC

CONTINUED ON VEO NUMBER \_\_\_\_\_

PROCESS EQUIPMENT Portable Crushing Unit - Crusher OPERATING MODE 200RPH  
 CONTROL EQUIPMENT Chem-Jet Dust Suppression System OPERATING MODE Cont

OBSERVATION DATE 04-11-97 START TIME 8:45 AM END TIME 9:45 AM

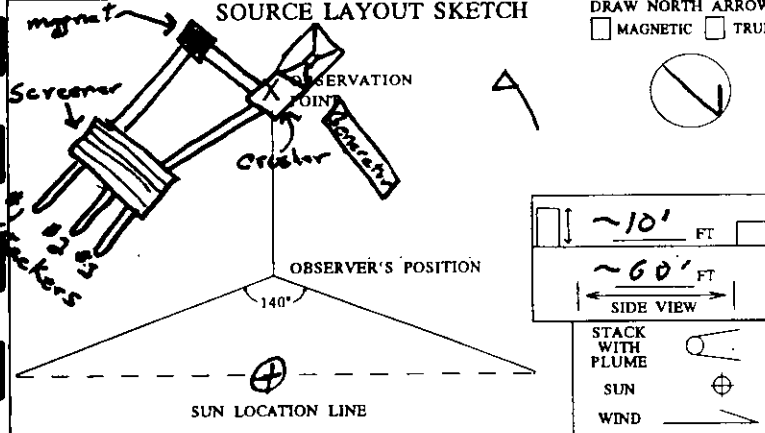
DESCRIBE EMISSION PT. Hole in top of crusher were  
oversize product is loaded into.  
 DISTANCE TO EMISS. PT. START ~60' END Same DIRECTION TO EMISS. PT. (DEGREES) START 260°SW END Same  
 HEIGHT OF EMISS. PT. START ~10' END Same HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~5' END Same

MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

VERTICAL ANGLE TO OBS. PT. START ~2° END \_\_\_\_\_ DIRECTION TO OBS. PT. (DEGREES) START ~260°SW END Same  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START ~60' END Same DIRECTION 260°SW

DESCRIBE EMISSIONS START None END Same  
 EMISSION COLOR START N/A END Same WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Green & Brown Trees END Same  
 BACKGROUND COLOR START Green END Same SKY CONDITIONS START Cloudy END Same  
 WIND SPEED START ~1-3MPH END Same WIND DIRECTION START NE END Same  
 AMBIENT TEMPERATURE START 78.1 END 77.5 WET BULB TEMP. PERCENT RH START \_\_\_\_\_ END 87%

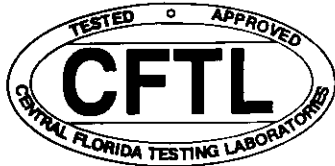


LAT: \_\_\_\_\_ LONG: \_\_\_\_\_ DECLINATION 0

AVERAGE OPACITY 07% HIGHEST SIX MINUTE INTERVAL 07%

ADDITIONAL INFORMATION  
NO objectionable odors, no fugitive emissions detected. See process weight Table for process weight Determinations  
Water Truck Spraying Facility grounds  
Chem Jet system @ 138-137 PSI

OBSERVER'S NAME (PRINT) Anthony M Sesin  
 OBSERVER'S SIGNATURE Anthony M Sesin DATE 4/11/97  
 ORGANIZATION CFTL  
 CERTIFIED BY ETA Tampe DATE 2-26-97



**CENTRAL FLORIDA TESTING LABORATORIES, INC.**  
**VISIBLE EMISSIONS OBSERVATION FORM**

*Crusher (EP No. 1)*

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER \_\_\_\_\_ PAGE 3 OF 3

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755-20th Ave., S.E. CITY Largo  
 MAILING ADDRESS Post Office Box 1493  
 CITY Largo STATE FL ZIP 34649  
 PHONE/KEY CONTACT \_\_\_\_\_ SOURCE PERMIT NUMBER 7770262-001-AC

CONTINUED ON VEO NUMBER \_\_\_\_\_

PROCESS EQUIPMENT Rollinger Portable Crushing Unit - Crusher OPERATING MODE 200TPH  
 CONTROL EQUIPMENT Chem-Jet Dust Suppression System OPERATING MODE Cont

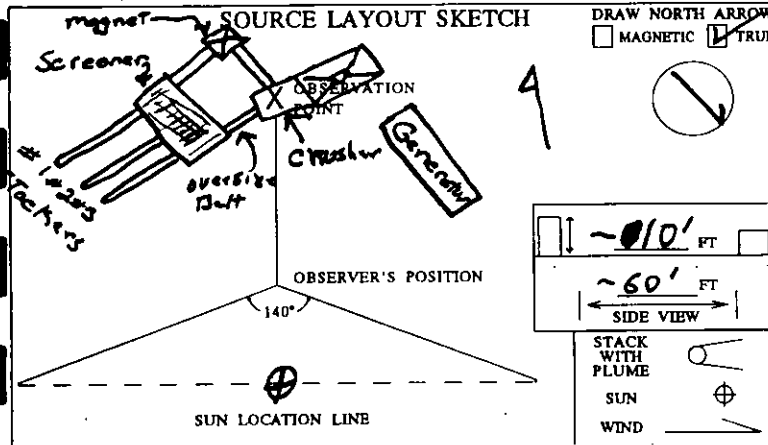
OBSERVATION DATE 04-11-97 START TIME 9:46 AM END TIME 10:46 AM

DESCRIBE EMISSION PT. Hole in top of Crusher were  
oversize product is loaded into.  
 DISTANCE TO EMISS. PT. START ~60' END Same DIRECTION TO EMISS. PT. (DEGREES) START 260°SW END Same  
 HEIGHT OF EMISS. PT. START ~10' END Same HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~5' END Same  
 VERTICAL ANGLE TO OBS. PT. START ~2° END Same DIRECTION TO OBS. PT. (DEGREES) START ~260°SW END Same  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START ~60' ~260°SW END Same

MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

DESCRIBE EMISSIONS START None END Same  
 EMISSION COLOR START N/A END \_\_\_\_\_ WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Green & Brown END Same  
 BACKGROUND COLOR START Green/Brown END Same SKY CONDITIONS START Cloudy END Same  
 WIND SPEED START 4.3 mph END Same WIND DIRECTION START NE END Same  
 AMBIENT TEMPERATURE START 77.5 END 77.8 WET BULB TEMP. PERCENT RH 87%

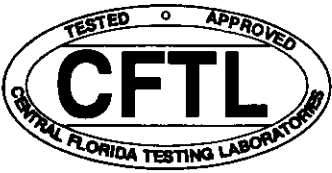


LAT: \_\_\_\_\_ LONG: \_\_\_\_\_ DECLINATION 0

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

ADDITIONAL INFORMATION  
No objectionable odors, no fugitive emissions detected. See process weight table for process weight Determinations  
Water track spraying facility grounds  
Chem Jet system @ 126-137 PSI

OBSERVER'S NAME (PRINT) Anthony M Se Sen  
 OBSERVER'S SIGNATURE Anthony M Se Sen DATE 4/11/97  
 ORGANIZATION CFTL  
 CERTIFIED BY ETA Tampa DATE 2-26-97



**CENTRAL FLORIDA TESTING LABORATORIES, INC.**  
**VISIBLE EMISSIONS OBSERVATION FORM**

*Screener (EP No. 2)*

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER EP021 PAGE 1 OF 3

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755-20th Ave., S.E. CITY Largo  
 MAILING ADDRESS Post Office Box 1493  
 CITY Largo STATE FL ZIP 34649  
 PHONE/KEY CONTACT SOURCE PERMIT NUMBER 7770262-001-AC(EP#02)

CONTINUED ON VBO NUMBER EP022

PROCESS EQUIPMENT Portable Crushing Unit - 48" x 6' vibrating screen OPERATING MODE 200 tph  
 CONTROL EQUIPMENT Chem-Jet Dust Suppression System OPERATING MODE Cont. 135-137

OBSERVATION DATE 04-11-97 START TIME 7:48:00 am END TIME 8:47:45 am

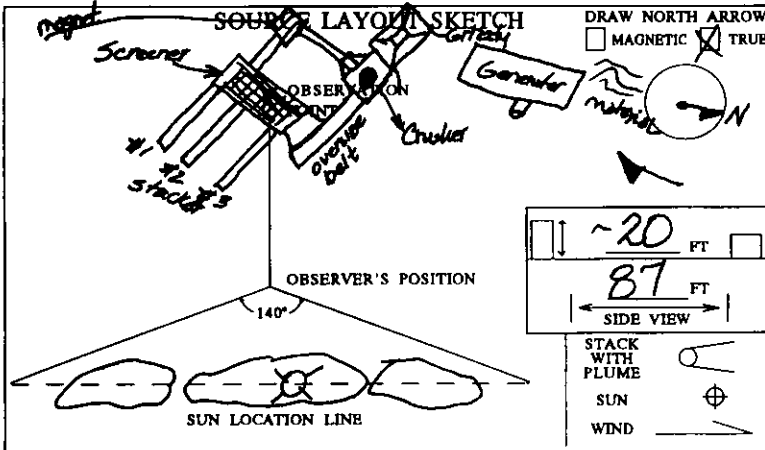
DESCRIBE EMISSION PT. Top of screening device, to the west of #1, 2, 3 stacker belts.  
 DISTANCE TO EMISS. PT. START 87' END 87' DIRECTION TO EMISS. PT. (DEGREES) START SW(232°) END SW(232°)  
 HEIGHT OF EMISS. PT. START ~20' END ~20' HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~17' END ~17'

MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
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20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

VERTICAL ANGLE TO OBS. PT. START 4° END 4° DIRECTION TO OBS. PT. (DEGREES) START SW(232°) END SW(232°)  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START SAME END SAME

DESCRIBE EMISSIONS START None END None  
 EMISSION COLOR START None END None WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Cloudy Gray sky END Cldy gray sky  
 BACKGROUND COLOR START gray END gray SKY CONDITIONS START Overcast END Overcast  
 WIND SPEED START 3-8 mph END 3-8 mph WIND DIRECTION FROM NE(240°) END NE(240°)  
 AMBIENT TEMPERATURE START 75.4°F END 76.2°F WET BULB TEMP. PERCENT RH 82%

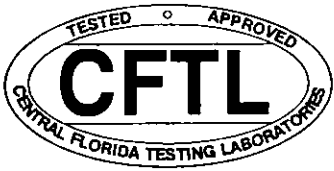


LAT: LONG: DECLINATION

AVERAGE DENSITY 0% HIGHEST SIX-MINUTE INTERVAL 0%

ADDITIONAL INFORMATION  
No objectionable odors, no fugitive emissions detected. See process weight Table for Process Weight Determinations. Water Truck Spraying facility grounds. Chem Jet System @ 135-137 psi

OBSERVER'S NAME (PRINT) Bernard A. Ball, Jr.  
 OBSERVER'S SIGNATURE Bernard A. Ball, Jr. DATE 4-11-97  
 ORGANIZATION CFTL, Inc.  
 CERTIFIED BY ETA, Tampa DATE 2/25/97



**CENTRAL FLORIDA TESTING LABORATORIES, INC.**  
**VISIBLE EMISSIONS OBSERVATION FORM**

*Screener (EP No. 2)*

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER EP022 PAGE 2 OF 3

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755-20th Ave., S.E. CITY Largo  
 MAILING ADDRESS Post Office Box 1493  
 CITY Largo STATE FL ZIP 34649  
 PHONE/KEY CONTACT SOURCE PERMIT NUMBER 7770262-001-AC (EP#02)

CONTINUED ON VEO NUMBER EP023

OBSERVATION DATE 04-11-97 START TIME 8:50:00am END TIME 9:49:45am

PROCESS EQUIPMENT Conveyor portable OPERATING MODE  
Crushing Unit - 48' x 6' vibrating screener 200 tph  
 CONTROL EQUIPMENT Chem-Jet Dust Suppression System OPERATING MODE Cont. (135PSI)

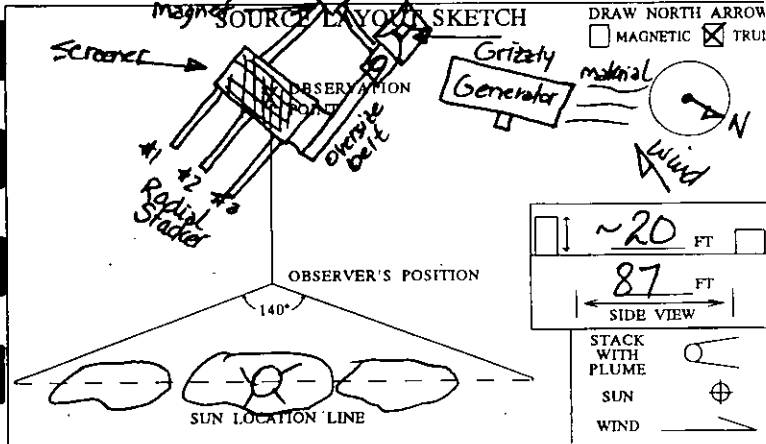
MIN	0	15	30	45	MIN	0	15	30	45
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2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

DESCRIBE EMISSION PT. Top of screening device, to the west of #1, 2 & 3 stacker belts  
 DISTANCE TO EMISS. PT. START 87' END 87' DIRECTION TO EMISS. PT. (DEGREES) START SW(232°) END SW(232°)  
 HEIGHT OF EMISS. PT. START ~20' END ~20' HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~17' END ~17'

VERTICAL ANGLE TO OBS. PT. START 40° END 40° DIRECTION TO OBS. PT. (DEGREES) START SW(232°) END SW(232°)  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START SAME END SAME

DESCRIBE EMISSIONS START None END None  
 EMISSION COLOR START None END None WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START cloudy gray sky END cloudy gray sky  
 BACKGROUND COLOR START gray END gray SKY CONDITIONS START Overcast END Overcast  
 WIND SPEED START 3-8mph END 3-8mph WIND DIRECTION START NE(24°) END NE(24°)  
 AMBIENT TEMPERATURE START 76.3°F END 77.5°F WET BULB TEMP. PERCENT RH 84%

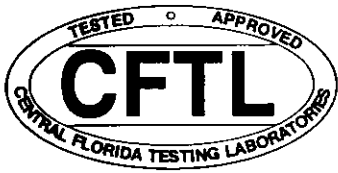


LAT: LONG: DECLINATION

AVERAGE OPACITY 0% HIGHEST SIX-MINUTE INTERVAL 0%

ADDITIONAL INFORMATION No objectionable odors - no fugitives from plant grounds. Water truck in operation. See process weight section for Process Weight Determinations. Chem Jet System @ 135psi.

OBSERVER'S NAME (PRINT) Bernard A. Ball, Jr.  
 OBSERVER'S SIGNATURE Bernard A. Ball, Jr. DATE 4-11-97  
 ORGANIZATION CFTL, Inc.  
 CERTIFIED BY ETA, Tampa DATE 2/25/97



**CENTRAL FLORIDA TESTING LABORATORIES, INC.**  
**VISIBLE EMISSIONS OBSERVATION FORM**

*Screening (EP No. 2)*

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER

FORM NUMBER EP 023 PAGE 3 OF 3

CONTINUED ON VEO NUMBER - - - - -

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755-20th Ave., S.E. CITY Largo  
 MAILING ADDRESS Post Office Box 1493  
 CITY Largo STATE FL ZIP 31649  
 PHONE/KEY CONTACT SOURCE PERMIT NUMBER 7770262-001-AC (EP#2)

OBSERVATION DATE 04-11-97 START TIME 9:53:00AM END TIME 10:52:45AM

PROCESS EQUIPMENT Compressor Portable OPERATING MODE  
Crushing Unit - 48" x 6" vibrating screen 200 tph  
 CONTROL EQUIPMENT Chem-Jet Dust Suppression System OPERATING MODE Cont. (135psi)

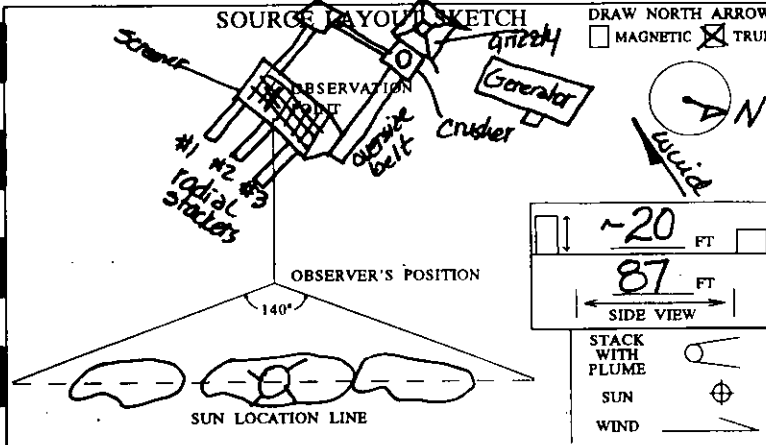
MIN	0	15	30	45	MIN	0	15	30	45
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2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
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15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
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18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

DESCRIBE EMISSION PT. Top of screening device, to west of radial stackers No. 1, 2, & 3  
 DISTANCE TO EMISS. PT. START 87' END 87' DIRECTION TO EMISS. PT. (DEGREES) START SU(232°) END SU(232°)  
 HEIGHT OF EMISS. PT. START ~20' END ~20' HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~17' END ~17'

VERTICAL ANGLE TO OBS. PT. START 40° END 40° DIRECTION TO OBS. PT. (DEGREES) START SU(232°) END SU(232°)  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START same END SAME

DESCRIBE EMISSIONS START None END None  
 EMISSION COLOR START None END None WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Cloudy gray sky END Cloudy gray sky  
 BACKGROUND COLOR START gray END gray SKY CONDITIONS START Overcast END Overcast  
 WIND SPEED START 4-10 mph END 4-10 mph WIND DIRECTION START NE(22°) END NE(22°)  
 AMBIENT TEMPERATURE START 77.5°F END 77.8°F WET BULB TEMP. PERCENT RH 86%

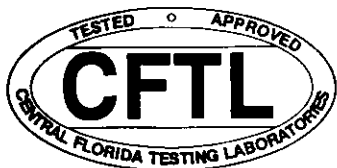


LAT: LONG: DECLINATION

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

ADDITIONAL INFORMATION  
No fugitives observed from plant grounds.  
No objectionable odors detected. Water truck spraying yard. See Process Weight section of test for Process Weight Determination. Chem Jet System @ 135 psi

OBSERVER'S NAME (PRINT) Bernard A. Ball, Jr.  
 OBSERVER'S SIGNATURE Bernard A. Ball, Jr. DATE 4-11-97  
 ORGANIZATION CFTL, Inc.  
 CERTIFIED BY ETA, Tampa DATE 2/25/97



CENTRAL FLORIDA TESTING LABORATORIES, INC.  
VISIBLE EMISSIONS OBSERVATION FORM

*Grizzly Feeder (ep#3)*

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER PAGE 1 OF 3

CONTINUED ON VEO NUMBER

COMPANY NAME *Frontier Recycling, Inc.*  
STREET ADDRESS *1755-20th Ave., S.E.* CITY *Largo*  
MAILING ADDRESS *Post Office Box 1493*  
CITY *Largo* STATE *FL* ZIP *34649*  
PHONE/KEY CONTACT SOURCE PERMIT NUMBER *7770262-001-AC*

OBSERVATION DATE *04-11-97* START TIME *7:44 AM* END TIME *8:44 AM*

MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
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23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

PROCESS EQUIPMENT *Cowling Portable Crushing Unit - Feeder* OPERATING MODE *200TPH*  
CONTROL EQUIPMENT *Chem-Jet Dust Suppression System* OPERATING MODE *Cont*

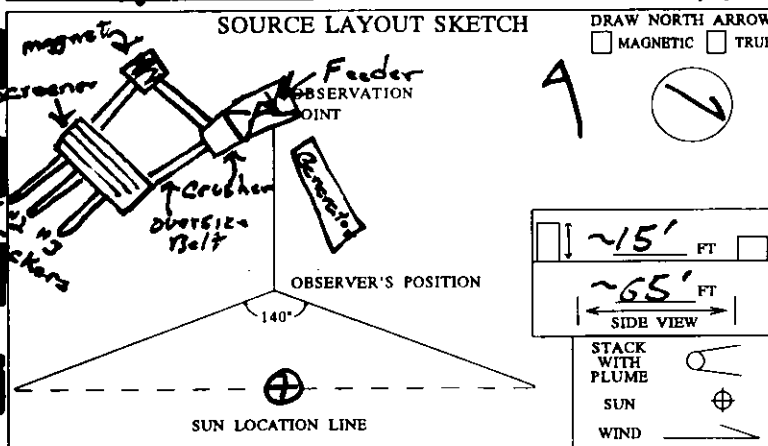
DESCRIBE EMISSION PT. *Top of Feeder where product is loaded to be processed.*

DISTANCE TO EMISS. PT. START *~65'* END *Same* DIRECTION TO EMISS. PT. (DEGREES) START *266°NW* END *Same*  
HEIGHT OF EMISS. PT. START *~15'* END *Same*

VERTICAL ANGLE TO OBS. PT. START *~6°* END *Same* DIRECTION TO OBS. PT. (DEGREES) START *266°NW* END *Same*  
APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START *~65' 266°NW* END *Same*

DESCRIBE EMISSIONS START *none* END *Same*  
EMISSION COLOR WATER DROPLET PLUME  
START *NA* END  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START *Gray Skys* END *Same*  
BACKGROUND COLOR SKY CONDITIONS START *Gray* END *Same* START *Scattered* END *Same*  
WIND SPEED WIND DIRECTION START *7-5mph* END *Same* START *NE* END *Same*  
AMBIENT TEMPERATURE WET BULB TEMP. PERCENT RH START *75.8* END *76.2* *82%*

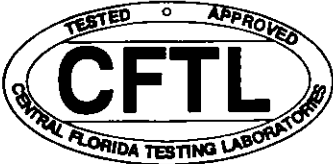


LAT: LONG: DECLINATION *0*

AVERAGE OPACITY *070* HIGHEST SIX MINUTE INTERVAL *070*

ADDITIONAL INFORMATION *No objectionable odors, no fugitives emissions detected. See process weight Table for process weight Determinations. Water truck Spraying facility grounds Cem Jet System @ 135-137 psc*

OBSERVER'S NAME (PRINT) *Anthony M Sesin*  
OBSERVER'S SIGNATURE *Anthony M Sesin* DATE *4/11/97*  
ORGANIZATION *CFTL*  
CERTIFIED BY *EPA Tampa* DATE *2-26-97*



CENTRAL FLORIDA TESTING LABORATORIES, INC.  
 VISIBLE EMISSIONS OBSERVATION FORM

*Grizzly Feeder (EP #3)*

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER PAGE 2 OF 3

COMPANY NAME Frontier Recycling Inc.  
 STREET ADDRESS 1755-20th Ave., S.E. CITY LaGrado  
 MAILING ADDRESS Post Office Box 1493  
 CITY LaGrado STATE FL ZIP 34649  
 PHONE/KEY CONTACT SOURCE PERMIT NUMBER 7710262-001-AC

CONTINUED ON VEO NUMBER

PROCESS EQUIPMENT Bohinger Portable Crushing Unit - Feeder OPERATING MODE 200TPH  
 CONTROL EQUIPMENT Chem-Jet Dust Suppression System OPERATING MODE Cont

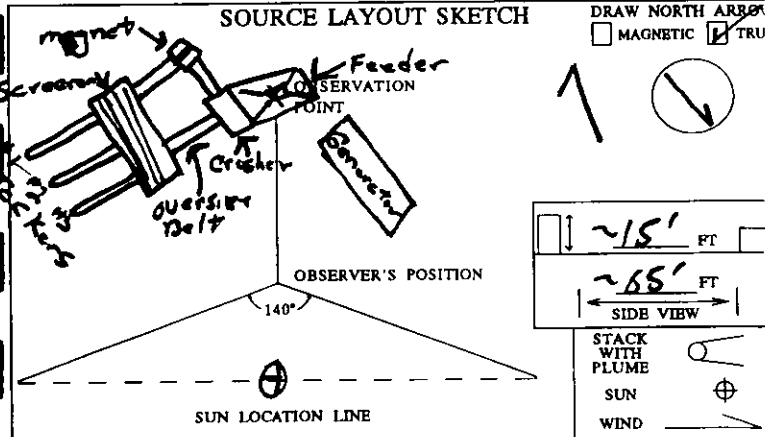
OBSERVATION DATE 04-11-97 START TIME 8:45 AM END TIME 9:45 AM

DESCRIBE EMISSION PT. Tops of Feeder were product is loaded to be processed.  
 DISTANCE TO EMISS. PT. START ~65' END Same DIRECTION TO EMISS. PT. (DEGREES) START 266°NW END Same  
 HEIGHT OF EMISS. PT. START ~15' END Same HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~15' END Same  
 VERTICAL ANGLE TO OBS. PT. START ~6° END Same DIRECTION TO OBS. PT. (DEGREES) START 266°NW END Same  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START 65'-266°NW END Same

MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

DESCRIBE EMISSIONS START None END Same  
 EMISSION COLOR WATER DROPLET PLUME  
 START NA END None  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Gray Sky END Same  
 BACKGROUND COLOR SKY CONDITIONS START Scattered END Same  
 WIND SPEED START ~1-5 mph END Same WIND DIRECTION START NE END Same  
 AMBIENT TEMPERATURE WET BULB TEMP. PERCENT RH  
 START 76.1 END 77.5 87%

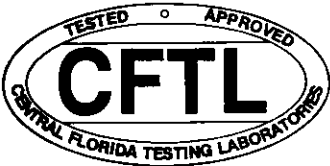


LAT: LONG: DECLINATION 0

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

ADDITIONAL INFORMATION  
No objectionable odors, no fugitive emissions detected. See process weight table for process weight Determinations  
Water truck spraying facility grounds  
Chem Jet System @ 135-137 PSI

OBSERVER'S NAME (PRINT) Anthony M Se Sen  
 OBSERVER'S SIGNATURE Anthony M Se Sen DATE 4/11/97  
 ORGANIZATION CFTL  
 CERTIFIED BY ETA Tampa DATE 2-26-97



**CENTRAL FLORIDA TESTING LABORATORIES, INC.**  
**VISIBLE EMISSIONS OBSERVATION FORM**

*Grizzly Feeder (EP #3)*

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER \_\_\_\_\_ PAGE 3 OF 3

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755-20th Ave., S.E. CITY Largo  
 MAILING ADDRESS Post Office Box 1493  
 CITY Largo STATE FL ZIP 34649  
 PHONE/KEY CONTACT \_\_\_\_\_ SOURCE PERMIT NUMBER 7770262-00-AC

CONTINUED ON VEO NUMBER \_\_\_\_\_

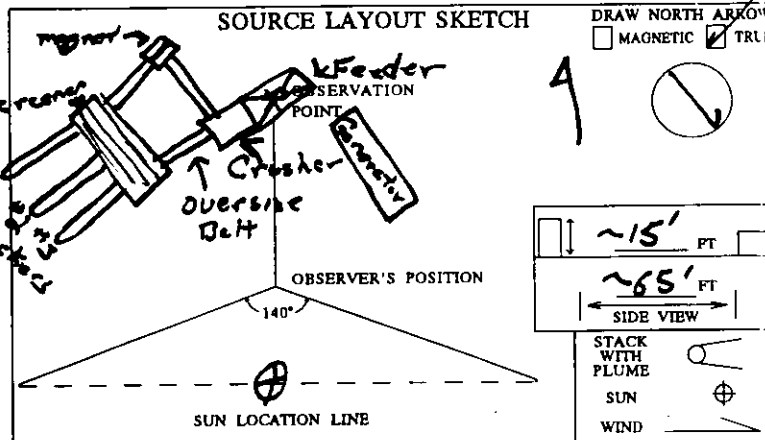
PROCESS EQUIPMENT Crusher Portable OPERATING MODE \_\_\_\_\_  
Crushing Unit - Feeder 200TPH  
 CONTROL EQUIPMENT Chem-Jet Dust Suppression System OPERATING MODE Cont

OBSERVATION DATE 04-11-97 START TIME 9:45AM END TIME 10:45AM

DESCRIBE EMISSION PT. Top of Feeder were product is loaded to be processed  
 DISTANCE TO EMISS. PT. START ~65' END Same DIRECTION TO EMISS. PT. (DEGREES) START ~266W END Same  
 HEIGHT OF EMISS. PT. START ~15' END Same HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~15' END Same  
 VERTICAL ANGLE TO OBS. PT. START ~60 END Same DIRECTION TO OBS. PT. (DEGREES) START ~266W END Same  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START ~65' - 266°NW END Same

MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
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8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
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13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

DESCRIBE EMISSIONS START None END Same  
 EMISSION COLOR START N/A END \_\_\_\_\_ WATER DROPLET PLUME  ATTACHED  DETACHED  NONE  
 DESCRIBE PLUME BACKGROUND START Gray Skys END Same  
 BACKGROUND COLOR START Gray END Same SKY CONDITIONS START Scatter END Same  
 WIND SPEED START ~1.5 mph END Same WIND DIRECTION START NE END Same  
 AMBIENT TEMPERATURE START 77.5 END 77.8 WET BULB TEMP. \_\_\_\_\_ PERCENT RH 87%



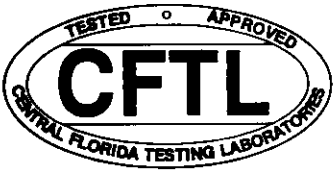
LAT: \_\_\_\_\_ LONG: \_\_\_\_\_ DECLINATION 0

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

ADDITIONAL INFORMATION  
No objectionable odors, no fugitives emissions detected. See process weight table for process weight determinations  
Water Truck spraying facility grounds  
Chem Jet System @ 135-137 PSI

OBSERVER'S NAME (PRINT) Anthony M SeSim  
 OBSERVER'S SIGNATURE Anthony M SeSim DATE 4/11/97  
 ORGANIZATION CFTL  
 CERTIFIED BY ETA-Tampa DATE 2-26-97





**CENTRAL FLORIDA TESTING LABORATORIES, INC.**  
**VISIBLE EMISSIONS OBSERVATION FORM**

*Discharge System (EP No. 4)*

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER EP041 PAGE 1 OF 3

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755-20th Ave., S.E. CITY Largo

CONTINUED ON VEO NUMBER EP042

MAILING ADDRESS Post Office Box 1493  
 CITY Largo STATE FL ZIP 34649

OBSERVATION DATE 04-11-97 START TIME 7:48:00am END TIME 8:47:45am

PHONE/KEY CONTACT SOURCE PERMIT NUMBER 7770262-001-AC (EP#4)

MIN	0	15	30	45	MIN	0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
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6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
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25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

PROCESS EQUIPMENT Portable Crusher Unit - Discharge System OPERATING MODE 200tph  
 CONTROL EQUIPMENT Chem-Jet Dust Suppression System OPERATING MODE Cont. (135-137psi)

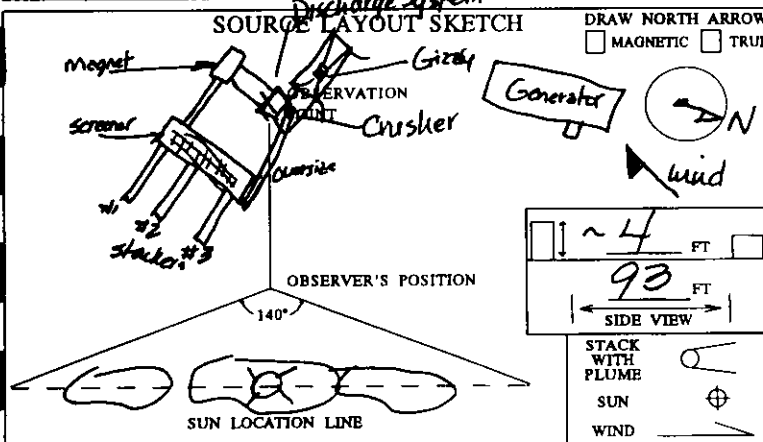
DESCRIBE EMISSION PT. Portable Discharge System located @ crusher exit feeds material to discharge belt

DISTANCE TO EMISS. PT. START 93' END 93' DIRECTION TO EMISS. PT. (DEGREES) START 260°(W) END 260°(W)  
 HEIGHT OF EMISS. PT. START ~4' END ~4' HEIGHT TO EMISS. PT. REL. TO OBSERVER START -1' END -1'

VERTICAL ANGLE TO OBS. PT. START -1° END -1° DIRECTION TO OBS. PT. (DEGREES) START 260°(W) END 260°(W)  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START same END same

DESCRIBE EMISSIONS START None END None  
 EMISSION COLOR START None END None WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Gray Ground END Gray Ground  
 BACKGROUND COLOR START Gray END Gray SKY CONDITIONS START Overcast END Overcast  
 WIND SPEED START 3-8mph END 3-8mph WIND DIRECTION START NE(24°) END NE(24°)  
 AMBIENT TEMPERATURE START 75.4°F END 76.2°F WET BULB TEMP. 82% PERCENT RH. 82%

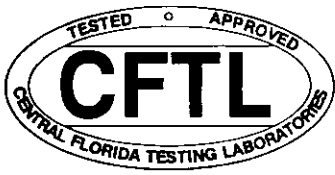


LAT: LONG: DECLINATION

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

ADDITIONAL INFORMATION No objectionable odors nor fugitive emission from plant grounds. Water truck in operation. See Process Weight Determination Section for Process Weight Chem Jet System @ 135-137 psi.

OBSERVER'S NAME (PRINT) Bernard A. Ball, Jr.  
 OBSERVER'S SIGNATURE Bernard A. Ball, Jr. DATE 4-11-97  
 ORGANIZATION CFTL, Inc.  
 CERTIFIED BY ETA, Tampa DATE 2/25/97



**CENTRAL FLORIDA TESTING LABORATORIES, INC.**  
**VISIBLE EMISSIONS OBSERVATION FORM**

*Discharge System (EP No. 4)*

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER EP042 PAGE 2 OF 3

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755-20th Ave., S.E. CITY Largo  
 MAILING ADDRESS Post Office Box 1493  
 CITY Largo STATE FL ZIP 34649  
 PHONE/KEY CONTACT SOURCE PERMIT NUMBER 7770262-00-AC (EP#4)

CONTINUED ON VEO NUMBER EP043

OBSERVATION DATE 04-11-97 START TIME 8:50 am END TIME 9:49:45 am

PROCESS EQUIPMENT Portable Crusher Unit - Discharge System OPERATING MODE 200 tph  
 CONTROL EQUIPMENT Chem-Jet Dust Suppression System OPERATING MODE Cont. (135 psi)

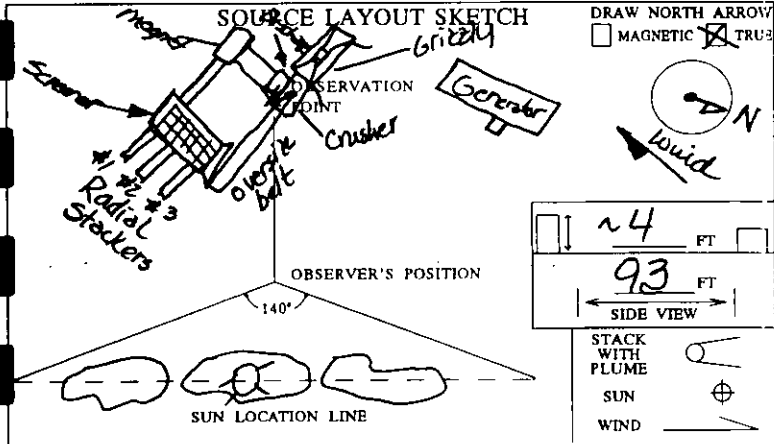
MIN	SEC				MIN	SEC			
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2	0	0	0	0	32	0	0	0	0
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4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
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15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

DESCRIBE EMISSION PT. Portable discharge system located @ crusher exit, feeds material to discharge belt  
 DISTANCE TO EMISS. PT. START 93' END 93' DIRECTION TO EMISS. PT. (DEGREES) START 260°(W) END 260°(W)  
 HEIGHT OF EMISS. PT. START ~4' END ~4' HEIGHT TO EMISS. PT. REL. TO OBSERVER START -1' END -1'

VERTICAL ANGLE TO OBS. PT. START -1° END -1° DIRECTION TO OBS. PT. (DEGREES) START 260°(W) END 260°(W)  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START same END same

DESCRIBE EMISSIONS START None END None  
 EMISSION COLOR START None END None WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Gray Ground END Gray Ground  
 BACKGROUND COLOR START Gray END Gray SKY CONDITIONS START overcast END overcast  
 WIND SPEED START 3-8 mph END 3-8 mph WIND DIRECTION START NE(24°) END NE(24°)  
 AMBIENT TEMPERATURE START 76.3°F END 77.5°F WET BULB TEMP. PERCENT RH 84%

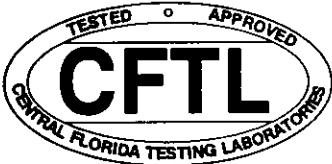


LAT: LONG: DECLINATION

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

ADDITIONAL INFORMATION  
No objectionable odors, no fugitives from plant grounds. Water truck in operation. See Process Weight section for Process Weight Determination. Chem Jet System @ 135 psi

OBSERVER'S NAME (PRINT) Bernard A. Ball, Jr.  
 OBSERVER'S SIGNATURE Bernard A. Ball, Jr. DATE 4-11-97  
 ORGANIZATION CFTL, INC.  
 CERTIFIED BY ETA, Tampa DATE 2/25/97



CENTRAL FLORIDA TESTING LABORATORIES, INC.  
VISIBLE EMISSIONS OBSERVATION FORM

Discharge System (EP No. 4)

METHOD USED (CIRCLE ONE)  
METHOD 9 203A 203B OTHER:

FORM NUMBER EP 043 PAGE 3 OF 3

CONTINUED ON VEO NUMBER - - - - -

COMPANY NAME: Frontier Recycling, Inc.  
STREET ADDRESS: 1755-20th Ave., S.E. CITY: Largo  
MAILING ADDRESS: Post Office Box 1493  
CITY: Largo STATE: FL ZIP: 34649  
PHONE/KEY CONTACT: SOURCE PERMIT NUMBER: 7770262-001-AC (EP#4)

OBSERVATION DATE: 04-11-97 START TIME: 9:53:00 END TIME: 10:52:45

MIN	SEC 0	15	30	45	MIN	SEC 0	15	30	45
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3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
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6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
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25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

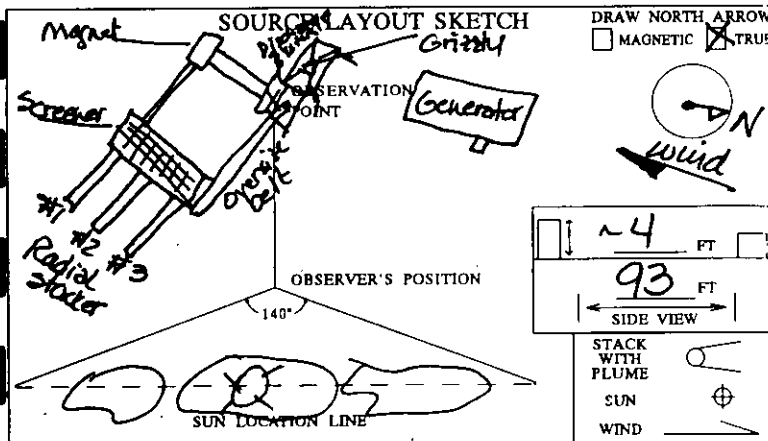
PROCESS EQUIPMENT: Crusher Portable  
Operating Mode: 200 tph  
CONTROL EQUIPMENT: Chem-Jet Dust Suppression System  
Operating Mode: Cont. (135psi)

DESCRIBE EMISSION PT.: Portable discharge system located @ crusher exit, feeds material to discharge belt.  
DISTANCE TO EMISS. PT.: START 93' END 93' DIRECTION TO EMISS. PT. (DEGREES): START 260°(W) END 260°(W)  
HEIGHT OF EMISS. PT.: START ~4' END ~4' HEIGHT TO EMISS. PT. REL. TO OBSERVER: START -1' END -1'

VERTICAL ANGLE TO OBS. PT.: START -10° END -10° DIRECTION TO OBS. PT. (DEGREES): START 260°(W) END 260°(W)  
APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT.: START same END same

DESCRIBE EMISSIONS: START None END None  
EMISSION COLOR: WATER DROPLET PLUME:  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND: START Gray Ground END Gray Ground  
BACKGROUND COLOR: START Gray END Gray  
WIND SPEED: START 4-10 mph END 4-10 mph  
WIND DIRECTION: START NE(220°) END NE(220°)  
AMBIENT TEMPERATURE: START 77.5°F END 77.8°F  
WET BULB TEMP.: PERCENT RH: 86%

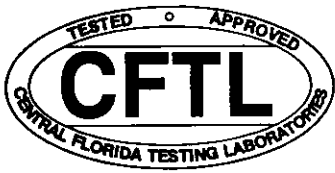


LAT: LONG: DECLINATION:

AVERAGE DENSITY: 0% HIGHEST SIX-MINUTE INTERVAL: 0%

ADDITIONAL INFORMATION: No objectionable odors detected, no fugitive emissions from grounds. Water Truck in full operation. See Process Weight Section for plant production rates. Chem Jet System @ 135 psi

OBSERVER'S NAME (PRINT): Bernard A. Ball, Jr.  
OBSERVER'S SIGNATURE: Bernard A. Ball, Jr. DATE: 4-11-97  
ORGANIZATION: CFTL, Inc.  
CERTIFIED BY: ETA, Tampa DATE: 2/25/97



**CENTRAL FLORIDA TESTING LABORATORIES, INC.**

**VISIBLE EMISSIONS OBSERVATION FORM (EP No. 676)**  
*3/6" x 80' discharge belt (D.P.)*

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

COMPANY NAME: *Frontier Recycling, Inc.*  
 STREET ADDRESS: *1755-20th Ave., S.E.* CITY: *Largo*  
 MAILING ADDRESS: *Post Office Box 1493*  
 CITY: *Largo* STATE: *FL* ZIP: *34649*  
 PHONE/KEY CONTACT: SOURCE PERMIT NUMBER: *7770262-001-AC (EP#6)*

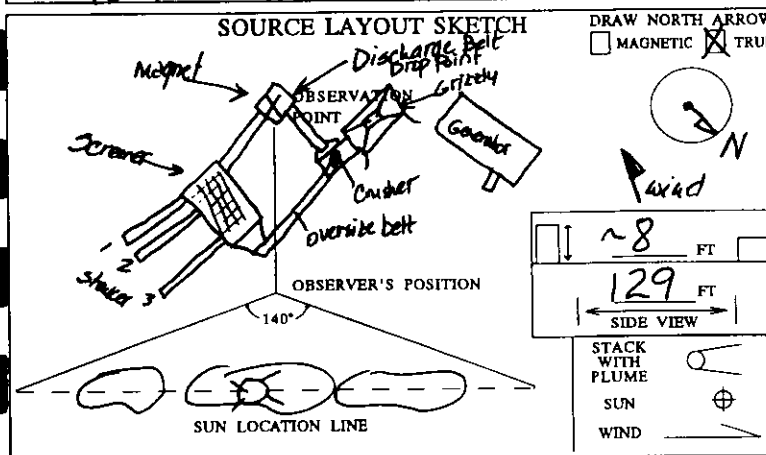
PROCESS EQUIPMENT: *Cobringer Portable Crushing Unit - 3/6" x 80' discharge belt* OPERATING MODE: *200 fph*  
 CONTROL EQUIPMENT: *Chem Jet Dust Suppression System* OPERATING MODE: *Cont. (135-137 psf)*

DESCRIBE EMISSION PT.: *Drop Point from 3/6" x 80' discharge belt to 24" x 80' radial belt @ magnet*  
 DISTANCE TO EMISS. PT. START: *129'* END: *129'* DIRECTION TO EMISS. PT. (DEGREES) START: *SW(224°)* END: *SW(224°)*  
 HEIGHT OF EMISS. PT. START: *~8'* END: *~8'* HEIGHT TO EMISS. PT. REL. TO OBSERVER START: *~5'* END: *~5'*

VERTICAL ANGLE TO OBS. PT. START: *2°* END: *2°* DIRECTION TO OBS. PT. (DEGREES) START: *SW(224°)* END: *SW(224°)*  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START: *Same* END: *Same*

DESCRIBE EMISSIONS: START: *None* END: *None*  
 EMISSION COLOR: START: *None* END: *None* WATER DROPLET PLUME:  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND: START: *cloudy gray sky* END: *cloudy gray sky*  
 BACKGROUND COLOR: START: *gray* END: *gray* SKY CONDITIONS: START: *overcast* END: *overcast*  
 WIND SPEED: START: *3-8 mph* END: *3-8 mph* WIND DIRECTION: START: *NE(24°)* END: *NE(24°)*  
 AMBIENT TEMPERATURE: START: *75.4°F* END: *76.2°F* WET BULB TEMP.: PERCENT RH: *82%*



LAT: LONG: DECLINATION:

ADDITIONAL INFORMATION: *No objectionable odors detected, no fugitives from plant grounds, water truck in operation. See Process Weight Section for Process Weight Determinations. Chem Jet System Operating @ 135-137 psf*

FORM NUMBER: *EP061* PAGE: *1* OF: *3*

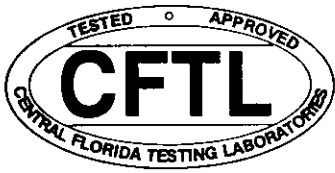
CONTINUED ON VEO NUMBER: *EP062*

OBSERVATION DATE: *04-11-97* START TIME: *7:48:00am* END TIME: *8:47:45am*

MIN	SEC				MIN	SEC			
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1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

AVERAGE OPACITY: *0%* HIGHEST SIX MINUTE INTERVAL: *0%*

OBSERVER'S NAME (PRINT): *Bernard A. Ball, Jr.*  
 OBSERVER'S SIGNATURE: *Bernard A. Ball, Jr.* DATE: *4-11-97*  
 ORGANIZATION: *CFTL, INC.*  
 CERTIFIED BY: *ETA, Tampa* DATE: *2/25/97*



CENTRAL FLORIDA TESTING LABORATORIES, INC.  
VISIBLE EMISSIONS OBSERVATION FORM (EP No. 586)

36"x80' Discharge Belt (D.P.)

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER EP062 PAGE 2 OF 3

COMPANY NAME Frontier Recycling, Inc.  
STREET ADDRESS 1755-20th Ave., S.E. CITY Largo  
MAILING ADDRESS Post Office Box 1493  
CITY Largo STATE FL ZIP 34649  
PHONE/KEY CONTACT SOURCE PERMIT NUMBER 7770262-001-AC (EP#6)

CONTINUED ON VEO NUMBER EP063

OBSERVATION DATE 04-11-97 START TIME 8:50:00am END TIME 9:49:45am

PROCESS EQUIPMENT Crusher Portable OPERATING MODE 200 tph  
Crushing Unit - 36"x80' discharge belt  
CONTROL EQUIPMENT Chem-Jet Dust Suppression System OPERATING MODE Cont. (135psi)

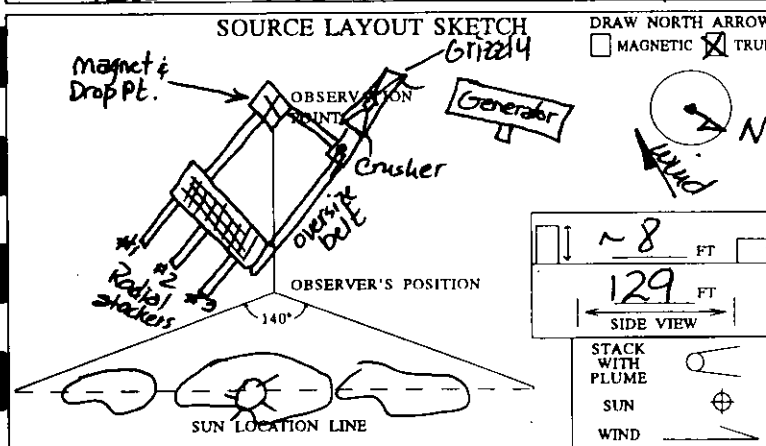
MIN	0	15	30	45	MIN	0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
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24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

DESCRIBE EMISSION PT. Drop Point from 36"x80' discharge belt to 24"x80' radial belt @ magnet  
DISTANCE TO EMISS. PT. START 129' END 129' DIRECTION TO EMISS. PT. (DEGREES) START SW(224°) END SW(224°)  
HEIGHT OF EMISS. PT. START ~8' END ~8' HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~5' END ~5'

VERTICAL ANGLE TO OBS. PT. START 2° END 2° DIRECTION TO OBS. PT. (DEGREES) START SW(224°) END SW(224°)  
APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START Same END same

DESCRIBE EMISSIONS START None END None  
EMISSION COLOR START None END None WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START cloudy gray sky END cloudy gray sky  
BACKGROUND COLOR START gray END gray SKY CONDITIONS START overcast END overcast  
WIND SPEED START 3-8 mph END 3-8 mph WIND DIRECTION FROM START NE(24°) END NE(24°)  
AMBIENT TEMPERATURE START 76.3°F END 77.5°F WET BULB TEMP. PERCENT RH 84%

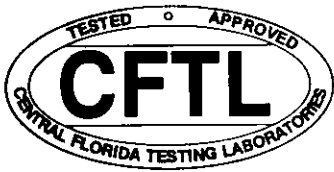


LAT: LONG: DECLINATION

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

ADDITIONAL INFORMATION: No objectionable odors, no fugitives detected. Water truck in operation. See process weight section for Process Weight Determinations. Chem Jet System Operating @ 135psi

OBSERVER'S NAME (PRINT) Bernard A. Ball, Jr.  
OBSERVER'S SIGNATURE Bernard A. Ball, Jr. DATE 4-11-97  
ORGANIZATION CFTL, Inc.  
CERTIFIED BY ETA, Tampa DATE 2/25/97



CENTRAL FLORIDA TESTING LABORATORIES, INC.  
 VISIBLE EMISSIONS OBSERVATION FORM (EP No. 646)

36" x 80' discharge belt (Drop Point)

METHOD USED (CIRCLE ONE)  
 METHOD 9 203A 203B OTHER:

FORM NUMBER EP 063 PAGE 3 OF 3

COMPANY NAME: Frontier Recycling, Inc.  
 STREET ADDRESS: 1755-20th Ave., S.E. CITY: Largo  
 MAILING ADDRESS: Post Office Box 1493  
 CITY: Largo STATE: FL ZIP: 34649  
 PHONE/KEY CONTACT: SOURCE PERMIT NUMBER: 7770262-001-AC (EP#6)

CONTINUED ON VEO NUMBER

PROCESS EQUIPMENT: *Boasting Portable Crushing Unit - 36" x 80' discharge belt* OPERATING MODE: 200 fph  
 CONTROL EQUIPMENT: *Chem-Jet Dust Suppression System* OPERATING MODE: *Cont. (135psi)*

OBSERVATION DATE: 04-11-97 START TIME: 9:53:00am END TIME: 10:52:45am

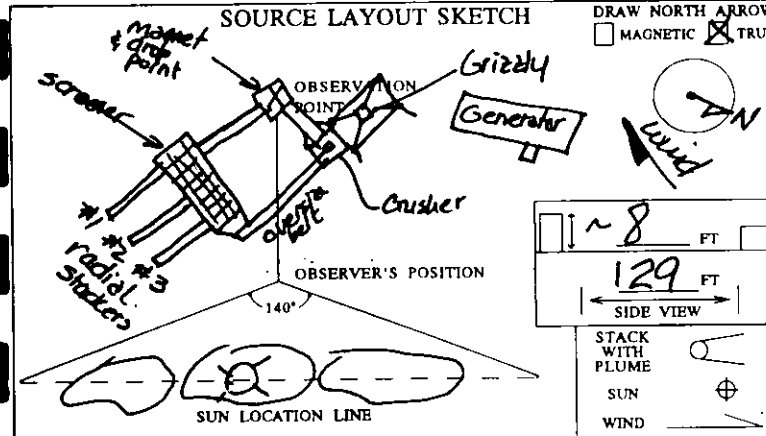
DESCRIBE EMISSION PT.: *Drop Point from 36" x 80' discharge belt to 24" x 80' radial belt @ magnet*  
 DISTANCE TO EMISS. PT.: START 129' END 129' DIRECTION TO EMISS. PT. (DEGREES): START SW(224°) END SW(224°)  
 HEIGHT TO EMISS. PT. REL. TO OBSERVER: START ~8' END ~8' DIRECTION TO OBS. PT. (DEGREES): START SW(224°) END SW(224°)

MIN	0	15	30	45	SEC	0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

VERTICAL ANGLE TO OBS. PT.: START 2° END 2° DIRECTION TO OBS. PT. (DEGREES): START SW(224°) END SW(224°)  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT.: START same END same

DESCRIBE EMISSIONS: START None END None  
 EMISSION COLOR: START None END None WATER DROPLET PLUME:  ATTACHED  DETACHED  NONE

DESCRIBE CLOUDY BACKGROUND: START Cloudy gray sky END Cloudy gray sky  
 BACKGROUND COLOR: START gray END Gray SKY CONDITIONS: START Overcast END overcast  
 WIND SPEED: START 4-10mph END 4-10mph WIND DIRECTION: START NE(220°) END NE(220°)  
 AMBIENT TEMPERATURE: START 77.5°F END 77.8°F WET BULB TEMP.: PERCENT RH: 86%

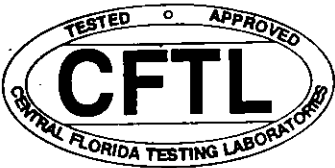


LAT: LONG: DECLINATION

AVERAGE OPACITY: 0% HIGHEST SIX-MINUTE INTERVAL: 0%

ADDITIONAL INFORMATION: No objectionable odors detected, no fugitives observed. Water truck in operation. See Process Weight Section for Process Weight Determination Chem Jet Dust System @ 135 psi

OBSERVER'S NAME (PRINT): Bernard A. Ball, Jr.  
 OBSERVER'S SIGNATURE: Bernard A. Ball, Jr. DATE: 4-11-97  
 ORGANIZATION: CFTL, Inc.  
 CERTIFIED BY: ETA, Tampa DATE: 2/25/97



# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

METHOD USED (CIRCLE ONE) **METHOD 9** 203A 203B OTHER:

FORM NUMBER **EP07A** PAGE **1** OF **3**

COMPANY NAME **Frontier Recycling, Inc.**  
 STREET ADDRESS **1755 20th Avenue S.E.** CITY **Largo**

CONTINUED ON VEO NUMBER **EP07B**

MAILING ADDRESS **P.O. Box 1493**  
 CITY **Largo** STATE **FL** ZIP **34649**

OBSERVATION DATE **April 11, 1997** START TIME **7:45am** END TIME **8:45am**

PHONE/KEY CONTACT **Mr. Doug Ebberts** SOURCE PERMIT NUMBER **7770262-001-AC (EP.7)**  
 PROCESS EQUIPMENT **Portable Crushing Plant - 24x60' Radial Belt #1** OPERATING MODE **Crushing at 200psi**  
 CONTROL EQUIPMENT **Water Spray System** OPERATING MODE **~135 to 137 psi**

MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
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15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
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19	0	0	0	0	49	0	0	0	0
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25	0	0	0	0	55	0	0	0	0
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27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

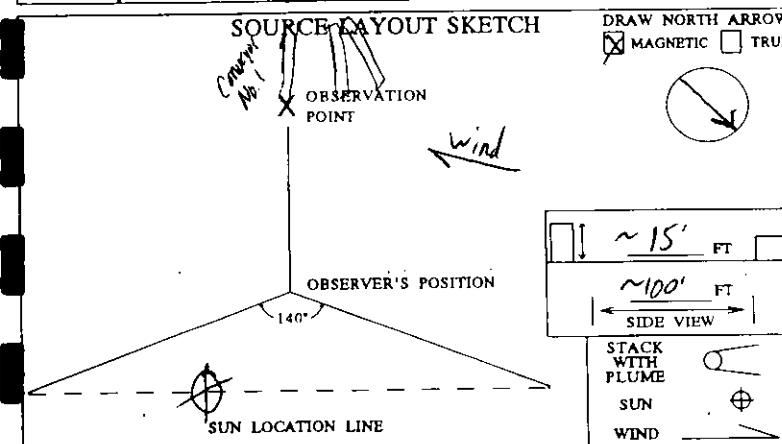
DESCRIBE EMISSION PT. **Conveyor Belt Drop Point**

DISTANCE TO EMISS. PT. START **~100'** END  DIRECTION TO EMISS. PT. (DEGREES) START **~218°** END   
 HEIGHT OF EMISS. PT. START **~15'** END  HEIGHT TO EMISS. PT. REL. TO OBSERVER START **~10'** END

VERTICAL ANGLE TO OBS. PT. START **~6°** END  DIRECTION TO OBS. PT. (DEGREES) START **~218°** END   
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START **Observed at Emission Point** END

DESCRIBE EMISSIONS START **None** END **None**  
 EMISSION COLOR START **NA** END **NA**  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START **Sky** END   
 BACKGROUND COLOR START **Gray** END  SKY CONDITIONS START **Overcast** END   
 WIND SPEED START **~3-5mph** END  WIND DIRECTION START **NE** END   
 AMBIENT TEMPERATURE START **~76°F** END  WET BULB TEMP. PERCENT RH

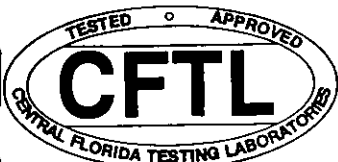


LAT: LONG: DECLINATION

AVERAGE OPACITY **0%** HIGHEST SIX MINUTE INTERVAL **0%**

ADDITIONAL INFORMATION  
**No objectionable odors detected. See process weight table in report for process weight determination.**

OBSERVER'S NAME (PRINT) **Russell B. Keith**  
 OBSERVER'S SIGNATURE **Russell B. Keith** DATE **4/11/97**  
 ORGANIZATION **CFTL**  
 CERTIFIED BY **ETA-Tampa** DATE **2/97**



# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

COMPANY NAME Frontier Recycling, Inc.

PHYSICAL ADDRESS 1755 20th Avenue S.E. Largo

MAILING ADDRESS P.O. Box 1493

CITY Largo STATE FL ZIP 34649

PHONE/KEY CONTACT Mr. Doug Ebbers SOURCE PERMIT NUMBER 7770262-001-AC(EP#7)

PROCESS EQUIPMENT Portable Crushing Plant - Radial Belt No. 1 OPERATING MODE Crushing at 2000rpm

CONTROL EQUIPMENT Water Spray OPERATING MODE ~135 psi

DESCRIBE EMISSION PT. Conveyor Belt Drop Point

DISTANCE TO EMISS. PT. START ~100' END  DIRECTION TO EMISS. PT. (DEGREES) START ~218° END

HEIGHT OF EMISS PT. START ~15' END  HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~10' END

VERTICAL ANGLE TO OBS. PT. START ~6° END  DIRECTION TO OBS. PT. (DEGREES) START ~218° END

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START Observed at Emission Pt. END

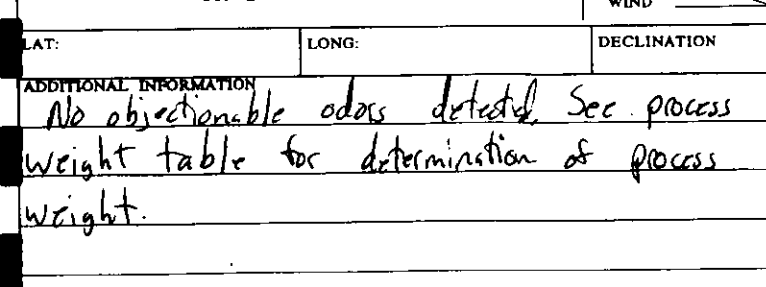
DESCRIBE EMISSIONS START None END  EMISSION COLOR START N/A END  WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Sky END  SKY CONDITIONS START Overcast END

WIND SPEED START ~3-5 mph END  WIND DIRECTION START NE END

AMBIENT TEMPERATURE START ~77°F END  WET BULB TEMP. PERCENT RH

LAT: LONG: DECLINATION



FORM NUMBER EP07B PAGE 2 OF 3

CONTINUED ON VEO NUMBER EP07C

OBSERVATION DATE April 11, 1997 START TIME 8:46 am END TIME 9:46 am

MIN	SEC				MIN	SEC			
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3	0	0	0	0	33	0	0	0	0
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6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
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9	0	0	0	0	39	0	0	0	0
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18	0	0	0	0	48	0	0	0	0
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20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

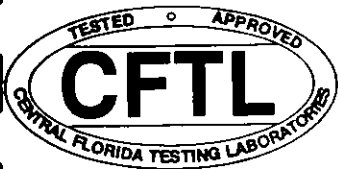
OBSERVER'S NAME (PRINT) Russell B. Keith

OBSERVER'S SIGNATURE Russell B. Keith DATE 4/11/97

ORGANIZATION CFTL CERTIFIED BY ETA-Tampa DATE 2/97

ADDITIONAL INFORMATION No objectionable odors detected. See process weight table for determination of process weight.





**CENTRAL FLORIDA TESTING LABORATORIES, INC.**  
**VISIBLE EMISSIONS OBSERVATION FORM**

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755 20th Avenue S.E. CITY Largo

MAILING ADDRESS P.O. Box 1493  
 CITY Largo STATE FL ZIP 34649

PHONE/RY CONTACT Mr. Doug Ebbers SOURCE PERMIT NUMBER 7770262-001-AC (EPT)

PROCESS EQUIPMENT Portable Crushing Plant - Radial Belt No. 1 OPERATING MODE Crushing at 200 tpm  
 CONTROL EQUIPMENT Water Spray OPERATING MODE ~135 psc

DESCRIBE EMISSION PT. Conveyor Belt Drop Point

DISTANCE TO EMISS. PT. START ~100' END  DIRECTION TO EMISS. PT. (DEGREES) START ~215° END

HEIGHT OF EMISS PT START ~15' END  HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~10' END

VERTICAL ANGLE TO OBS. PT. START ~6° END  DIRECTION TO OBS. PT. (DEGREES) START ~215° END

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START Observed at Emission Point END

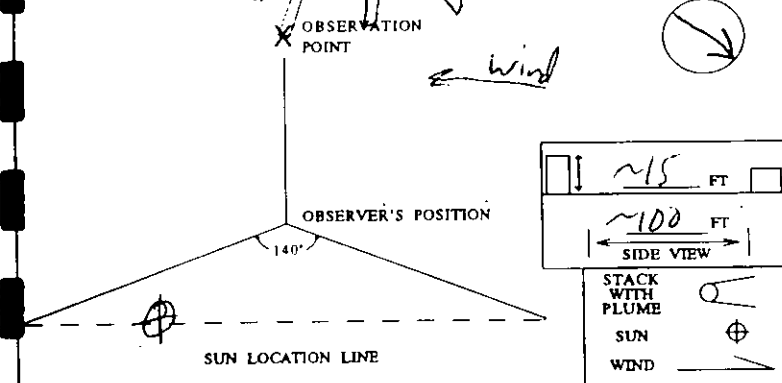
DESCRIBE EMISSIONS START None END  EMISSION COLOR N/A WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Sky END

BACKGROUND COLOR Gray END  SKY CONDITIONS START Overcast END

WIND SPEED START ~3-5 mph END  WIND DIRECTION START NE END

AMBIENT TEMPERATURE START ~77°F END  WET BULB TEMP. PERCENT RH



LAT: LONG: DECLINATION

ADDITIONAL INFORMATION No objectionable odors detected. See process weight table for determination of process weight.

FORM NUMBER EP07C PAGE 3 OF 3

CONTINUED ON VEO NUMBER

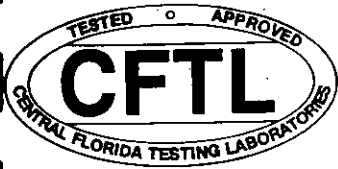
OBSERVATION DATE April 11, 1997 START TIME 9:47am END TIME 10:47

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6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

OBSERVER'S NAME (PRINT) Russell B. Keith  
 OBSERVER'S SIGNATURE Russell B. Keith DATE 4/11/97

ORGANIZATION CFTL  
 CERTIFIED BY ETA-Tampa DATE 2/97



# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER EPO8A PAGE 1 OF 3

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755 20th Avenue S.E. CITY Largo  
 MAILING ADDRESS P.O. Box 1493  
 CITY Largo STATE FL ZIP 34649

CONTINUED ON VEO NUMBER EPO8B

PHONE/KEY CONTACT Mr. Doug Ebbers SOURCE PERMIT NUMBER 7770262-001-AC(EP#8)  
 PROCESS EQUIPMENT Portable Crushing Plant - Radial Belt No. 2 OPERATING MODE Crushing at 200 tph  
 CONTROL EQUIPMENT Water Spray OPERATING MODE ~135-137 psi

OBSERVATION DATE April 11, 1997 START TIME 7:45am END TIME 8:45am

DESCRIBE EMISSION PT. Conveyor Belt Drop Point

MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

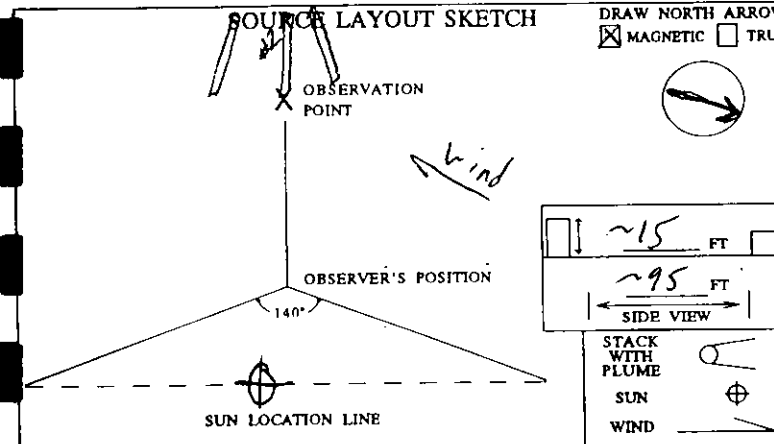
DISTANCE TO EMISS PT. START ~95' END  DIRECTION TO EMISS PT. (DEGREES) START ~236° END   
 HEIGHT OF EMISS PT. START ~15' END  HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~0' END

VERTICAL ANGLE TO OBS. PT. START ~6° END  DIRECTION TO OBS. PT. (DEGREES) START ~236° END

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START Observed at Emission Pt. END

DESCRIBE EMISSIONS START None END   
 EMISSION COLOR START NA END  WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Sky END   
 BACKGROUND COLOR START Gray END  SKY CONDITIONS START  WIND DIRECTION START NE END   
 WIND SPEED START ~3.5 mph END  WET BULB TEMP. START  PERCENT RH START ~76°F END



LAT: LONG: DECLINATION

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

ADDITIONAL INFORMATION No objectionable odors detected. See process weight table in Report for process weight determination.

OBSERVER'S NAME (PRINT) Russell B. Keith  
 OBSERVER'S SIGNATURE Russell B. Keith DATE 4/11/97  
 ORGANIZATION CFTL

CERTIFIED BY ETA-Tampa DATE 2/97



# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER EP08B PAGE 2 OF 3  
 CONTINUED ON VEO NUMBER EP08C

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755 20th Avenue S.E. CITY Largo

MAILING ADDRESS P.O. Box 1493  
 CITY Largo STATE FL ZIP 34649

PHONE/KEY CONTACT Mr. Doug Ebbers SOURCE PERMIT NUMBER 7770262-001-AC(EP#8)

PROCESS EQUIPMENT Portable Crushing Plant - Radial Belt No.2 OPERATING MODE Crushing at 200tph  
 CONTROL EQUIPMENT Water Spray OPERATING MODE 135 psi

DESCRIBE EMISSION PT. Conveyor Belt Drop Point

DISTANCE TO EMISS. PT. START ~95' END  DIRECTION TO EMISS. PT. (DEGREES) START ~230° END

HEIGHT OF EMISS. PT. START ~15' END  HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~10' END

VERTICAL ANGLE TO OBS. PT. START ~6° END  DIRECTION TO OBS. PT. (DEGREES) START ~236° END

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START Observed at Emission Pt. END

DESCRIBE EMISSIONS START None END

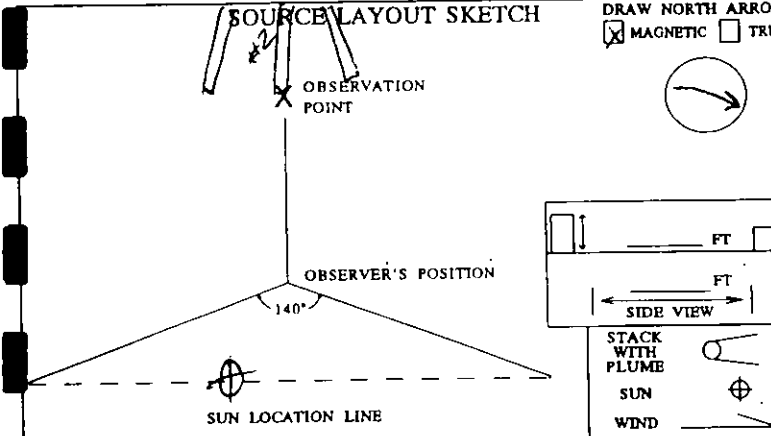
EMISSION COLOR START None END  WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Sky END

BACKGROUND COLOR START Gray END  SKY CONDITIONS START Overcast END

WIND SPEED START ~3 mph END  WIND DIRECTION START NE END

AMBIENT TEMPERATURE START ~77°F END  WET BULB TEMP. PERCENT RH



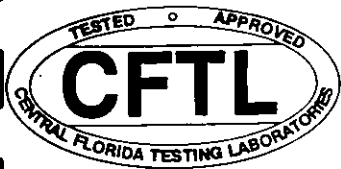
LAT: LONG: DECLINATION

ADDITIONAL INFORMATION  
No objectionable odors detected. See process weight table for determination of process weight.

MIN	OBSERVATION DATE				START TIME				END TIME			
	SSC	0	15	30	45	MIN	SEC	0	15	30	45	
1	0	0	0	0	31	0	0	0	0	0	0	
2	0	0	0	0	32	0	0	0	0	0	0	
3	0	0	0	0	33	0	0	0	0	0	0	
4	0	0	0	0	34	0	0	0	0	0	0	
5	0	0	0	0	35	0	0	0	0	0	0	
6	0	0	0	0	36	0	0	0	0	0	0	
7	0	0	0	0	37	0	0	0	0	0	0	
8	0	0	0	0	38	0	0	0	0	0	0	
9	0	0	0	0	39	0	0	0	0	0	0	
10	0	0	0	0	40	0	0	0	0	0	0	
11	0	0	0	0	41	0	0	0	0	0	0	
12	0	0	0	0	42	0	0	0	0	0	0	
13	0	0	0	0	43	0	0	0	0	0	0	
14	0	0	0	0	44	0	0	0	0	0	0	
15	0	0	0	0	45	0	0	0	0	0	0	
16	0	0	0	0	46	0	0	0	0	0	0	
17	0	0	0	0	47	0	0	0	0	0	0	
18	0	0	0	0	48	0	0	0	0	0	0	
19	0	0	0	0	49	0	0	0	0	0	0	
20	0	0	0	0	50	0	0	0	0	0	0	
21	0	0	0	0	51	0	0	0	0	0	0	
22	0	0	0	0	52	0	0	0	0	0	0	
23	0	0	0	0	53	0	0	0	0	0	0	
24	0	0	0	0	54	0	0	0	0	0	0	
25	0	0	0	0	55	0	0	0	0	0	0	
26	0	0	0	0	56	0	0	0	0	0	0	
27	0	0	0	0	57	0	0	0	0	0	0	
28	0	0	0	0	58	0	0	0	0	0	0	
29	0	0	0	0	59	0	0	0	0	0	0	
30	0	0	0	0	60	0	0	0	0	0	0	

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

OBSERVER'S NAME (PRINT) Russell B. Keith  
 OBSERVER'S SIGNATURE Russell B. Keith DATE 4/11/97  
 ORGANIZATION CFTL  
 CERTIFIED BY ETA-Tampa DATE 2/97



# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755 20th Avenue S.E. CITY Largo  
 MAILING ADDRESS P.O. Box 1493  
 CITY Largo STATE FL ZIP 34649  
 PHONE/RY CONTACT Mr. Doug Ebbers SOURCE PERMIT NUMBER 7770262-001-AC(EP#8)

PROCESS EQUIPMENT Portable Crushing Plant - Retail Bolt No. 2 OPERATING MODE Crushing at 200 tph  
 CONTROL EQUIPMENT Water Spray OPERATING MODE ~135 psi

DESCRIBE EMISSION PT. Conveyor Belt Drop Point

DISTANCE TO EMISS. PT. START ~95' END  DIRECTION TO EMISS. PT. (DEGREES) START ~236° END

HEIGHT OF EMISS. PT. START ~15' END  HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~10' END

VERTICAL ANGLE TO OBS. PT. START ~6° END  DIRECTION TO OBS. PT. (DEGREES) START ~236° END

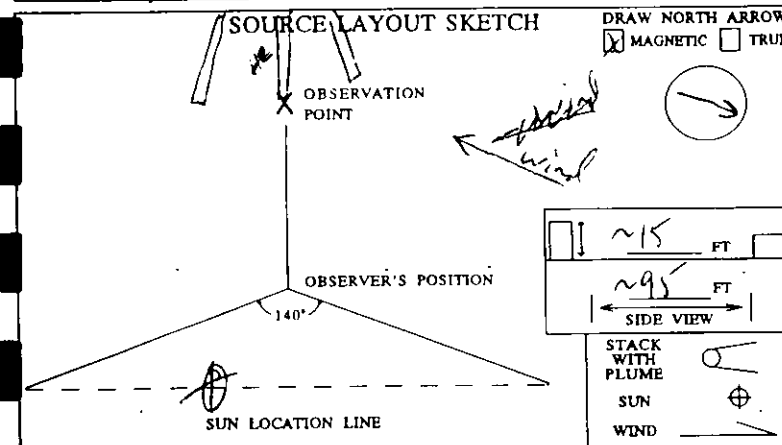
APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START Observed at Emission Pt. END

DESCRIBE EMISSIONS START None END  EMISSION COLOR NA WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START Sky END  BACKGROUND COLOR Gray SKY CONDITIONS START Overcast END

WIND SPEED START ~3.5 mph. END  WIND DIRECTION START NE END

AMBIENT TEMPERATURE START ~77°F END  WET BULB TEMP PERCENT RH



LAT: LONG: DECLINATION

ADDITIONAL INFORMATION No objectionable odors detected. See process weight table for determination of process weight.

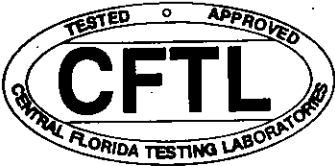
FORM NUMBER EP08C PAGE 3 OF 3  
 CONTINUED ON VEO NUMBER

OBSERVATION DATE April 11, 1997 START TIME 9:47am END TIME 10:47

MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

OBSERVER'S NAME (PRINT) Russell B. Keith  
 OBSERVER'S SIGNATURE Russell B. Keith DATE 4/11/97  
 ORGANIZATION CFTL  
 CERTIFIED BY ETA-Tampa DATE 2/97



**CENTRAL FLORIDA TESTING LABORATORIES, INC.**  
**VISIBLE EMISSIONS OBSERVATION FORM**

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755 20th Avenue S.E. CITY Largo  
 MAILING ADDRESS P.O. Box 1493  
 CITY Largo STATE FL ZIP 34649  
 PHONE/KEY CONTACT Mr. Doug Ebbers SOURCE PERMIT NUMBER 7770262-001-AC(EP#9)  
 PROCESS EQUIPMENT Portable Crushing Plant - Radial Belt #3 OPERATING MODE Crushing at 200tph  
 CONTROL EQUIPMENT Water Spray OPERATING MODE ~135 to 137 tph

DESCRIBE EMISSION PT. Radial Belt Drive Point

DISTANCE TO EMISS. PT. DIRECTION TO EMISS. PT. (DEGREES)  
 START ~100' END  START ~250° END

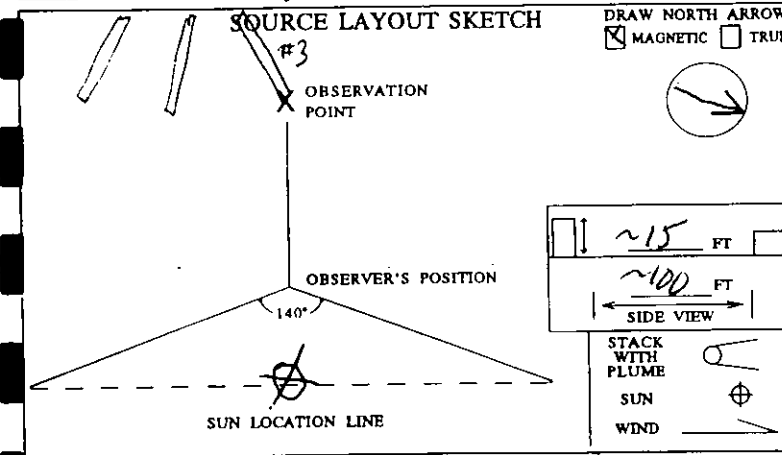
HEIGHT OF EMISS. PT. HEIGHT TO EMISS. PT. REL. TO OBSERVER  
 START ~15' END  START ~10' END

VERTICAL ANGLE TO OBS. PT. DIRECTION TO OBS. PT. (DEGREES)  
 START ~6° END  START ~250° END

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT.  
 START Observed at Emission Point END

DESCRIBE EMISSIONS  
 START None END   
 EMISSION COLOR WATER DROPLET PLUME  
 START NA END   ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND  
 START Sky END   
 BACKGROUND COLOR SKY CONDITIONS  
 START Gray END  START Overcast END   
 WIND SPEED WIND DIRECTION  
 START ~3.5 mph END  START NE END   
 AMBIENT TEMPERATURE WET BULB TEMP. PERCENT RH  
 START ~76°F END



LAT: LONG: DECLINATION

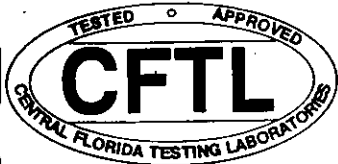
ADDITIONAL INFORMATION  
No objectionable obs detected. See process weight table in report for process weight determination.

FORM NUMBER EP09A PAGE 1 OF 3  
 CONTINUED ON VBO NUMBER EP09B

MIN	OBSERVATION DATE				START TIME		END TIME			
	0	15	30	45	MIN	SEC	0	15	30	45
1	0	0	0	0	31	0	0	0	0	0
2	0	0	0	0	32	0	0	0	0	0
3	0	0	0	0	33	0	0	0	0	0
4	0	0	0	0	34	0	0	0	0	0
5	0	0	0	0	35	0	0	0	0	0
6	0	0	0	0	36	0	0	0	0	0
7	0	0	0	0	37	0	0	0	0	0
8	0	0	0	0	38	0	0	0	0	0
9	0	0	0	0	39	0	0	0	0	0
10	0	0	0	0	40	0	0	0	0	0
11	0	0	0	0	41	0	0	0	0	0
12	0	0	0	0	42	0	0	0	0	0
13	0	0	0	0	43	0	0	0	0	0
14	0	0	0	0	44	0	0	0	0	0
15	0	0	0	0	45	0	0	0	0	0
16	0	0	0	0	46	0	0	0	0	0
17	0	0	0	0	47	0	0	0	0	0
18	0	0	0	0	48	0	0	0	0	0
19	0	0	0	0	49	0	0	0	0	0
20	0	0	0	0	50	0	0	0	0	0
21	0	0	0	0	51	0	0	0	0	0
22	0	0	0	0	52	0	0	0	0	0
23	0	0	0	0	53	0	0	0	0	0
24	0	0	0	0	54	0	0	0	0	0
25	0	0	0	0	55	0	0	0	0	0
26	0	0	0	0	56	0	0	0	0	0
27	0	0	0	0	57	0	0	0	0	0
28	0	0	0	0	58	0	0	0	0	0
29	0	0	0	0	59	0	0	0	0	0
30	0	0	0	0	60	0	0	0	0	0

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

OBSERVER'S NAME (PRINT) Russell B. Keith  
 OBSERVER'S SIGNATURE Russell B. Keith DATE 4/11/97  
 ORGANIZATION CFTL  
 CERTIFIED BY ETA-Tampa DATE 2/97



# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

METHOD USED (CIRCLE ONE) **METHOD 9** 203A 203B OTHER:

FORM NUMBER **EP09B** PAGE **2** OF **3**

COMPANY NAME **Frontier Recycling, Inc.**

STREET ADDRESS **1755 20th Avenue S.E.** CITY **Largo**

CONTINUED ON VBO NUMBER **EP09C**

MAILING ADDRESS **P.O. Box 1493**

CITY **Largo** STATE **FL** ZIP **34649**

OBSERVATION DATE **April 11, 1997** START TIME **8:46am** END TIME **9:46am**

PHONE/KEY CONTACT **Mr. Doug Ebbers** SOURCE PERMIT NUMBER **7770262-001-AC (EP#9)**

MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45

PROCESS EQUIPMENT **Portable Crushing Plant - Radial Belt #3** OPERATING MODE **Crushing at 200tph**

CONTROL EQUIPMENT **Water Spray** OPERATING MODE **135 psi**

DESCRIBE EMISSION PT. **Radial Belt Drop Point**

1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

DISTANCE TO EMISS. PT. START **~100'** END  DIRECTION TO EMISS. PT. (DEGREES) START **~250°** END

HEIGHT OF EMISS. PT. START **~15'** END  HEIGHT TO EMISS. PT. REL. TO OBSERVER START **~10'** END

VERTICAL ANGLE TO OBS. PT. START **~6°** END  DIRECTION TO OBS. PT. (DEGREES) START **~250°** END

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START **Observed at Emission A.** END

DESCRIBE EMISSIONS START **None** END

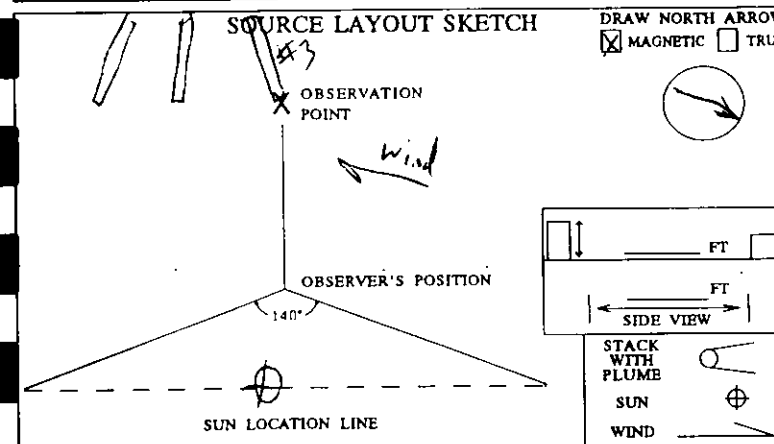
EMISSION COLOR START **NA** END  WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START **Skv** END

BACKGROUND COLOR START **Gray** END  SKY CONDITIONS START **Overcast** END

WIND SPEED START **~3.5 mph** END  WIND DIRECTION START **NE** END

AMBIENT TEMPERATURE START **~77°F** END  WET BULB TEMP. PERCENT RH



LAT: LONG: DECLINATION

AVERAGE OPACITY **0%** HIGHEST SIX MINUTE INTERVAL **0%**

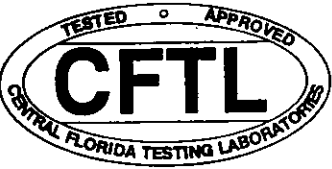
ADDITIONAL INFORMATION **No objectionable odors detected. See process weight table for determination of process weight.**

OBSERVER'S NAME (PRINT) **Russell B. Keith**

OBSERVER'S SIGNATURE **Russell B. Keith** DATE **4/11/97**

ORGANIZATION **CFTL**

CERTIFIED BY **ETA-Tampa** DATE **2/97**



# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755 20th Avenue S.E. CITY Largo  
 MAILING ADDRESS P.O. Box 1493  
 CITY Largo STATE FL ZIP 34649  
 PHONE/KEY CONTACT Mr. Doug Ebbers SOURCE PERMIT NUMBER 7770262-001-AC(EP#9)

PROCESS EQUIPMENT Portable Crushing Plant - Radial Belt No. 3 OPERATING MODE Crushing at 200 tph  
 CONTROL EQUIPMENT Water Spray OPERATING MODE ~135 psi

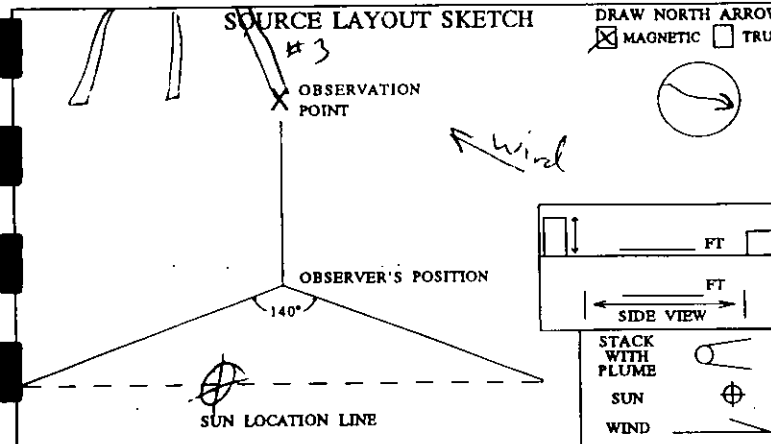
DESCRIBE EMISSION PT. Radial Belt Drop Point

DISTANCE TO EMISS. PT. DIRECTION TO EMISS. PT. (DEGREES)  
 START ~100' END / START ~250° END /  
 HEIGHT OF EMISS. PT. HEIGHT TO EMISS. PT. REL. TO OBSERVER  
 START ~15' END / START ~0' END /

VERTICAL ANGLE TO OBS. PT. DIRECTION TO OBS. PT. (DEGREES)  
 START ~6° END / START ~250° END /  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT.  
 START Observed at Emission Pt. END /

DESCRIBE EMISSIONS  
 START None END /  
 EMISSION COLOR WATER DROPLET PLUME  
 START NA END /  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND  
 START Sky END /  
 BACKGROUND COLOR SKY CONDITIONS  
 START Gray END / START Overcast END /  
 WIND SPEED WIND DIRECTION  
 START ~3.5 mph END / START NE END /  
 AMBIENT TEMPERATURE WET BULB TEMP. PERCENT RH  
 START ~77°F END /



LAT: LONG: DECLINATION

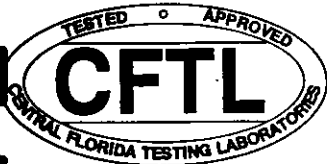
ADDITIONAL INFORMATION  
No objectionable odor detected. See process weight table for determination of process weight.

FORM NUMBER EP09C PAGE 3 OF 3  
 CONTINUED ON VEO NUMBER

OBSERVATION DATE				START TIME				END TIME				
<u>April 11, 1997</u>				<u>9:47am</u>				<u>10:47</u>				
MIN	SEC	MIN	SEC	MIN	SEC	MIN	SEC	MIN	SEC	MIN	SEC	
1	0	15	30	45	0	15	30	45	0	15	30	45
2	0	0	0	0	31	0	0	0	0	0	0	0
3	0	0	0	0	32	0	0	0	0	0	0	0
4	0	0	0	0	33	0	0	0	0	0	0	0
5	0	0	0	0	34	0	0	0	0	0	0	0
6	0	0	0	0	35	0	0	0	0	0	0	0
7	0	0	0	0	36	0	0	0	0	0	0	0
8	0	0	0	0	37	0	0	0	0	0	0	0
9	0	0	0	0	38	0	0	0	0	0	0	0
10	0	0	0	0	39	0	0	0	0	0	0	0
11	0	0	0	0	40	0	0	0	0	0	0	0
12	0	0	0	0	41	0	0	0	0	0	0	0
13	0	0	0	0	42	0	0	0	0	0	0	0
14	0	0	0	0	43	0	0	0	0	0	0	0
15	0	0	0	0	44	0	0	0	0	0	0	0
16	0	0	0	0	45	0	0	0	0	0	0	0
17	0	0	0	0	46	0	0	0	0	0	0	0
18	0	0	0	0	47	0	0	0	0	0	0	0
19	0	0	0	0	48	0	0	0	0	0	0	0
20	0	0	0	0	49	0	0	0	0	0	0	0
21	0	0	0	0	50	0	0	0	0	0	0	0
22	0	0	0	0	51	0	0	0	0	0	0	0
23	0	0	0	0	52	0	0	0	0	0	0	0
24	0	0	0	0	53	0	0	0	0	0	0	0
25	0	0	0	0	54	0	0	0	0	0	0	0
26	0	0	0	0	55	0	0	0	0	0	0	0
27	0	0	0	0	56	0	0	0	0	0	0	0
28	0	0	0	0	57	0	0	0	0	0	0	0
29	0	0	0	0	58	0	0	0	0	0	0	0
30	0	0	0	0	59	0	0	0	0	0	0	0
	0	0	0	0	60	0	0	0	0	0	0	0

AVERAGE OPACITY 0% HIGHEST SIX MINUTE INTERVAL 0%

OBSERVER'S NAME (PRINT) Russell B. Keith  
 OBSERVER'S SIGNATURE Russell B. Keith DATE 4/11/97  
 ORGANIZATION CFTL  
 CERTIFIED BY ETA-Tampa DATE 2/97



# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER EP T L PAGE 1 OF 1

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755-20th Ave., S.E. CITY Largo  
 MAILING ADDRESS Post Office Box 1493  
 CITY Largo STATE Florida ZIP 34649  
 PHONE/KEY CONTACT SOURCE PERMIT NUMBER 7770262-001-AC(EP-TL)

CONTINUED ON VBO NUMBER

DCBS EQUIPMENT Truck Loading Operations OPERATING MODE  
 CONTROL EQUIPMENT None OPERATING MODE

OBSERVATION DATE 04-11-97 START TIME 11:30:00 am END TIME 11:59:45 am

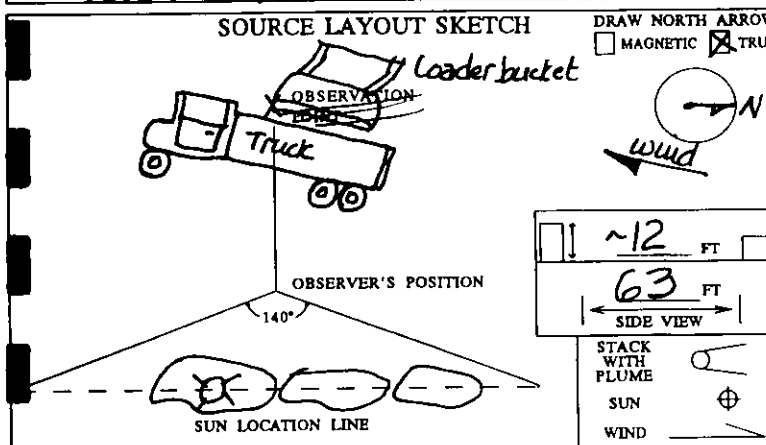
DESCRIBE EMISSION PT. Drop of crushed material from loader into dump truck  
 DISTANCE TO EMISS. PT. START 63' END 63' DIRECTION TO EMISS. PT. (DEGREES) START W(268°) END W(268°)  
 HEIGHT OF EMISS. PT. START ~12' END ~12' HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~8' END ~8'

MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	'0	0	0	0	31				
2	'5	0	0	0	32				
3	0	'5	0	0	33				
4	0	0	0	'0	34				
5	0	'0	0	0	35				
6	0	0	'5	5	36				
7	0	0	0	0	37				
8	'5	5	0	0	38				
9	0	0	0	0	39				
10	0	'5	5	5	40				
11	0	0	0	0	41				
12	'0	0	0	0	42				
13	0	'0	0	0	43				
14	0	0	0	'0	44				
15	5	0	0	0	45				
16	0	0	'0	0	46				
17	0	0	0	0	47				
18	0	'0	0	0	48				
19	0	0	'5	0	49				
20	0	0	0	0	50				
21	'5	5	0	0	51				
22	0	'0	0	0	52				
23	0	0	0	'5	53				
24	5	0	0	0	54				
25	'0	5	5	0	55				
26	0	0	0	0	56				
27	'0	0	0	0	57				
28	'5	5	0	0	58				
29	0	0	'0	0	59				
30	0	'5	0	0	60				

VERTICAL ANGLE TO OBS. PT. START 2° END 2° DIRECTION TO OBS. PT. (DEGREES) START W(268°) END W(268°)  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START same END same

DESCRIBE EMISSIONS Occasional lt gray fugitive emissions @ dump  
 EMISSION COLOR START lt gray END lt. gray WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START clay gray sky END cloudy gray sky  
 BACKGROUND COLOR START gray END gray SKY CONDITIONS START Overcast END Overcast  
 WIND SPEED START 3-8mph END 3-8mph WIND DIRECTION START NE(22°) END NE(22°)  
 AMBIENT TEMPERATURE START 78.0°F END 78.1°F WET BULB TEMP. PERCENT RH 86%



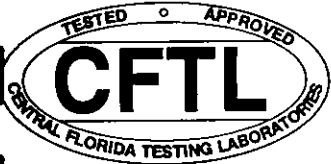
LAT: LONG: DECLINATION

AVERAGE OPACITY 0.4% HIGHEST SIX MINUTE INTERVAL 1.5%

ADDITIONAL INFORMATION 'Loader dump into truck - Loaded four trucks during test w/ crushed concrete from storage pile. No objectionable odors!! Each truck contains ~ 27 ton of crushed material.

OBSERVER'S NAME (PRINT) Donald A. Ball, Jr.  
 OBSERVER'S SIGNATURE Donald A. Ball, Jr. DATE 04-11-97  
 ORGANIZATION CFTL, INC.  
 CERTIFIED BY ETA, Tampa DATE 2/25/97





**CENTRAL FLORIDA TESTING LABORATORIES, INC.**  
**VISIBLE EMISSIONS OBSERVATION FORM**

METHOD USED (CIRCLE ONE) METHOD 9 203A 203B OTHER:

FORM NUMBER EPGEN PAGE 1 OF 1

COMPANY NAME Frontier Recycling, Inc.  
 STREET ADDRESS 1755-20th Ave., S.E. CITY Largo  
 MAILING ADDRESS Post Office Box 1493  
 CITY Largo STATE Florida ZIP 34649  
 PHONE/KEY CONTACT SOURCE PERMIT NUMBER 7770262-001-AC(EPGen)

CONTINUED ON VEO NUMBER

ACCESS EQUIPMENT 545 kW Caterpillar Diesel fired Generator Set OPERATING MODE 6.21 MINSTULLER  
 CONTROL EQUIPMENT None OPERATING MODE

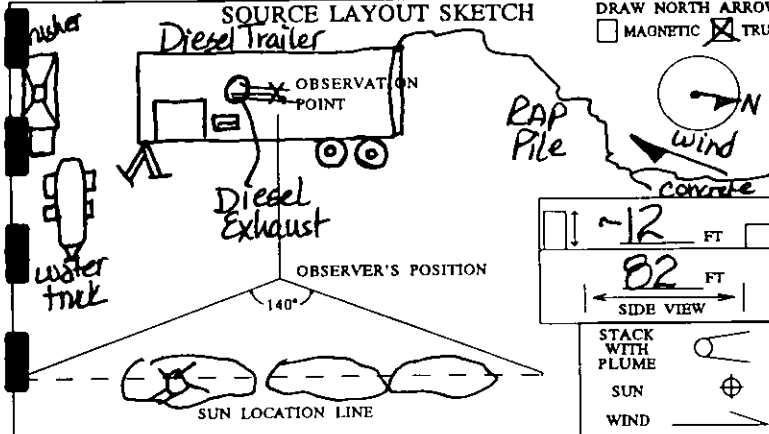
OBSERVATION DATE 04-11-97 START TIME 10:55:00am END TIME 11:24:45am

DESCRIBE EMISSION PT. 12" diameter exhaust stack, exiting east side of white storage trailer  
 DISTANCE TO EMISS. PT. START 82' END 82' DIRECTION TO EMISS. PT. (DEGREES) START 215°(W) END 260°(W)  
 HEIGHT OF EMISS. PT. START ~12' END ~12' HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~9' END ~9'  
 CRITICAL ANGLE TO OBS. PT. START 30° END 30° DIRECTION TO OBS. PT. (DEGREES) START 262°(W) END 262°(W)  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START ~2-6 to N. of exhaust END ~2-6 N. of exhaust stack

MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	5	5	10	5	31				
2	5	5	5	5	32				
3	5	5	5	5	33				
4	5	5	5	5	34				
5	10	10	5	5	35				
6	5	5	5	5	36				
7	5	5	5	5	37				
8	5	5	5	5	38				
9	5	5	5	5	39				
10	5	5	10	5	40				
11	5	5	5	5	41				
12	5	5	5	5	42				
13	10	10	5	5	43				
14	5	5	5	5	44				
15	5	5	5	5	45				
16	5	5	5	5	46				
17	5	5	5	5	47				
18	5	5	5	10	48				
19	5	5	5	5	49				
20	5	5	5	5	50				
21	5	5	5	5	51				
22	5	5	5	5	52				
23	5	5	5	10	53				
24	10	10	5	5	54				
25	5	5	5	5	55				
26	5	5	5	5	56				
27	5	5	5	10	57				
28	5	5	5	5	58				
29	10	10	10	5	59				
30	5	5	5	5	60				

DESCRIBE EMISSIONS START Gray Smoke END Gray Smoke  
 EMISSION COLOR WATER DROPLET PLUME  
 START Gray END Gray  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START White Trailer END White trailer  
 BACKGROUND COLOR SKY CONDITIONS  
 START White END White START cldy END cldy  
 WIND SPEED WIND DIRECTION  
 START 3-8 mph END 3-8 mph START NE(220°) END NE(220°)  
 AMBIENT TEMPERATURE WET BULB TEMP. PERCENT RH  
 START 77.6°F END 78.0°F 86%

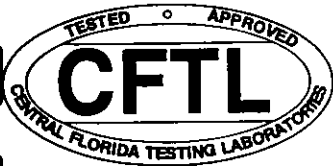


LAT: LONG: DECLINATION

AVERAGE OPACITY 2.8% HIGHEST SIX MINUTE INTERVAL 6.5%

ADDITIONAL INFORMATION Diesel Gen-Set @ max. and full production for test. No objectionable odors!! Diesel generator consuming No. 2 Virgin Fuel @ 6.2 gal/hr.

OBSERVER'S NAME (PRINT) Bernard A. Ball, Jr.  
 OBSERVER'S SIGNATURE Bernard A. Ball, Jr. DATE 4-11-97  
 ORGANIZATION CFTL, Inc.  
 CERTIFIED BY ETA, Tampa DATE 2/25/97



# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

METHOD USED (CIRCLE ONE) **METHOD 9** 203A 203B OTHER:

FORM NUMBER **EPTUL** PAGE **1** OF **1**

COMPANY NAME **Frontier Recycling, Inc.**  
 STREET ADDRESS **1755-20th Ave., S.E.** CITY **Largo**  
 MAILING ADDRESS **Post Office Box 1493**  
 CITY **Largo** STATE **Florida** ZIP **34649**  
 PHONE/KEY CONTACT SOURCE PERMIT NUMBER **7770262-001-AC**

CONTINUED ON VBO NUMBER

PROCESS EQUIPMENT **Truck Unloading Operations** OPERATING MODE **—**  
 CONTROL EQUIPMENT **None** OPERATING MODE **—**

OBSERVATION DATE **04-11-97** START TIME **12:15:00pm** END TIME **12:44:45pm**

DESCRIBE EMISSION PT. **Rock Haulers dumping recycled concrete onto stockpiles**  
 DISTANCE TO EMISS. PT. START **38'** END **38'** DIRECTION TO EMISS. PT. (DEGREES) START **W(266°)** END **W(266°)**  
 HEIGHT OF EMISS. PT. START **~5'** END **~5'** HEIGHT TO EMISS. PT. REL. TO OBSERVER START **~1'** END **~1'**

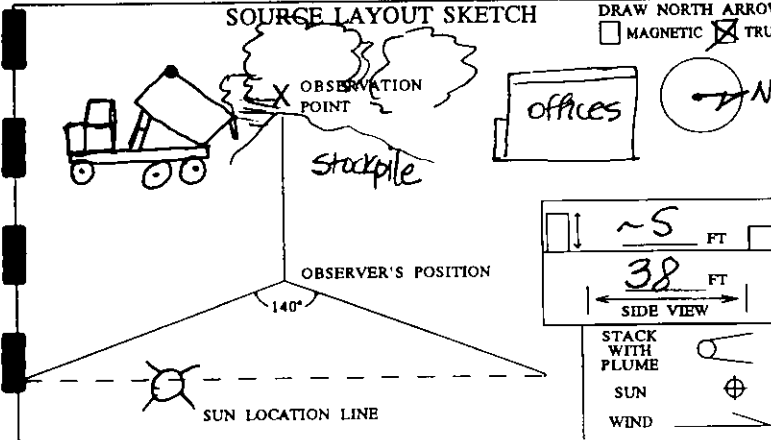
MIN	SEC	0	15	30	45	MIN	SEC	0	15	30	45
-----	-----	---	----	----	----	-----	-----	---	----	----	----

VERTICAL ANGLE TO OBS. PT. START **0°** END **0°** DIRECTION TO OBS. PT. (DEGREES) START **W(266°)** END **W(266°)**  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START **Same** END **Same**

1	'5	5	0	0	31						
2	0	0	0	0	32						
3	'5	5	5	0	33						
4	0	0	0	0	34						
5	0	0	0	0	35						
6	0	0	'5	10	36						
7	5	5	0	0	37						
8	0	0	0	0	38						
9	0	0	0	0	39						
10	0	'0	5	0	40						
11	5	0	0	0	41						
12	0	0	0	0	42						
13	0	0	'10	5	43						
14	5	0	0	0	44						
15	0	0	0	0	45						
16	0	0	0	0	46						
17	'0	0	0	0	47						
18	0	0	0	'5	48						
19	5	0	0	0	49						
20	0	0	0	0	50						
21	'5	5	10	0	51						
22	0	0	0	0	52						
23	0	0	0	0	53						
24	0	'10	10	5	54						
25	0	0	0	0	55						
26	0	0	0	0	56						
27	0	0	'5	0	57						
28	0	0	0	0	58						
29	0	'10	5	5	59						
30	5	0	0	0	60						

DESCRIBE EMISSIONS **occasional fugitive emissions when truck dump**  
 EMISSION COLOR START **lt Gray** END **White** WATER DROPLET PLUME  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND START **Green Trees** END **Green Trees**  
 BACKGROUND COLOR START **Green** END **Green** SKY CONDITIONS START **cldy** END **cldy**  
 WIND SPEED START **3-9mph** END **3-9mph** WIND DIRECTION START **From NE(22°)** END **NE(22°)**  
 AMBIENT TEMPERATURE START **78.2°F** END **78.4°F** WET BULB TEMP. PERCENT RH **86%**



AVERAGE OPACITY **1.4%** HIGHEST SIX MINUTE INTERVAL **2.3%**

LAT: LONG: DECLINATION

ADDITIONAL INFORMATION  
**1 = Rock Hauler type truck or dump truck dumping reclaimed material onto stockpile for processing. No objection-able odors detected!! Each truck unloaded of reclaimed material**

OBSERVER'S NAME (PRINT) **Bernard A. Ball, Jr.**  
 OBSERVER'S SIGNATURE **Bernard A. Ball, Jr.** DATE **4/11/97**  
 ORGANIZATION **CFTL, Inc.**  
 CERTIFIED BY **ETA, Tampa** DATE **4/25/97**

**IV. WEIGH TICKETS FOR PROCESS  
WEIGHT DETERMINATION**

FRONTIER RECYCLING

Tik# 22760

A SUBSIDIARY OF SANIFILL, INC.  
1755 20TH AVE SE  
LARGO, FL 33771  
PHONE# (813)581-1544  
PREPARED BY: GS

A CASH CUSTOMER  
CUSTOMER ACCT# 3610000  
VEHICLE ID# 1  
TIME: 13:10 DATE: 04/10/1997  
MANUAL TICKET# N/A

-----  
COMMODITY: CONCRETE PO#: YARD  
SOURCE ID: FL - PIN -  
TONS(LBS): GROSS: 23.60(47200) TARE: 19.11(38220) NET: 4.49(8980)  
CUBIC YARDS: 7.2  
RATE: 0 / TON QNTY: 4.49 PRETAX CHARGE: 0

PAYMENT METHOD: PAYMENT: CASH PAYMENT TOTAL: 0  
AMT TENDERED: \$0 CHANGE RETURNED: \$0

-----  
SIGNATURE: \_\_\_\_\_ COMMODITIES: \$0  
EXTRA CHARGES: \$0  
TAXES AND FEES: \$0

4.49+  
3.14+  
4.16+  
4.51+

ALL CHARGES: \$0  
=====

004

16.30  
16.3+

4. =  
Avg = 4.075\*  
Tons

FRONTIER RECYCLING

Tik# 22756

A SUBSIDIARY OF SANIFILL, INC.  
1755 20TH AVE SE  
LARGO, FL 33771  
PHONE# (813)581-1544  
PREPARED BY: GS

A CASH CUSTOMER  
CUSTOMER ACCT# 3610000  
VEHICLE ID# 1  
TIME: 12:59 DATE: 04/10/1997  
MANUAL TICKET# N/A

-----  
COMMODITY: CONCRETE PO#: YARD  
SOURCE ID: FL - PIN -  
TONS(LBS): GROSS: 22.25(44500) TARE: 19.11(38220) NET: 3.14(6280)  
CUBIC YARDS: 5.0  
RATE: 0 / TON QNTY: 3.14 PRETAX CHARGE: 0

PAYMENT METHOD: PAYMENT: CASH PAYMENT TOTAL: 0  
AMT TENDERED: 0 CHANGE RETURNED: 0

-----  
SIGNATURE: \_\_\_\_\_  
COMMODITIES: \$0  
EXTRA CHARGES: \$0  
TAXES AND FEES: \$0  
-----  
ALL CHARGES: \$0  
=====

FRONTIER RECYCLING

Tik# 22755

A SUBSIDIARY OF SANIFILL, INC.  
1755 20TH AVE SE  
LARGO, FL 33771  
PHONE# (813)581-1544  
PREPARED BY: GS

A CASH CUSTOMER  
CUSTOMER ACCT# 3610000  
VEHICLE ID# 1  
TIME: 12:59 DATE: 04/10/1997  
MANUAL TICKET# N/A

-----  
COMMODITY: CONCRETE PO#: YARD  
SOURCE ID: FL - PIN -  
TONS(LBS): GROSS: 23.27(46540) TARE: 19.11(38220) NET: 4.16(8320)  
CUBIC YARDS: 6.7  
RATE: 0 / TON QNTY: 4.16 PRETAX CHARGE: 0

PAYMENT METHOD: PAYMENT: CASH PAYMENT TOTAL: 0  
AMT TENDERED: \$0 CHANGE RETURNED: \$0

-----  
SIGNATURE: \_\_\_\_\_  
COMMODITIES: \$0  
EXTRA CHARGES: \$0  
TAXES AND FEES: \$0  
-----  
ALL CHARGES: \$0  
=====

FRONTIER RECYCLING

Tik# 22770

A SUBSIDIARY OF SANIFILL, INC.  
1755 20TH AVE SE  
LARGO, FL 33771  
PHONE# (813)581-1544  
PREPARED BY: GS

A CASH CUSTOMER  
CUSTOMER ACCT# 3610000  
VEHICLE ID# 1  
TIME: 13:27 DATE: 04/10/1997  
MANUAL TICKET# N/A

-----  
COMMODITY: CONCRETE PO#: YARD  
SOURCE ID: FL - PIN -  
TONS(LBS): GROSS: 23.62(47240) TARE: 19.11(38220) NET: 4.51(9020)  
CUBIC YARDS: 7.2  
RATE: 0 / TON QNTY: 4.51 PRETAX CHARGE: 0

PAYMENT METHOD: PAYMENT: CASH PAYMENT TOTAL: 0  
AMT TENDERED: \$0 CHANGE RETURNED: \$0

-----  
SIGNATURE: \_\_\_\_\_  
COMMODITIES: \$0  
EXTRA CHARGES: \$0  
TAXES AND FEES: \$0  
-----  
ALL CHARGES: \$0  
=====

**V. PROCESS WEIGHT DETERMINATION**





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

## Angelo's Recycled Materials

(formerly Frontier Recycling, Inc.)  
 Portable Bohringer Crushing Unit  
 Initial Visible Emissions Compliance Test  
 Determination of Process Weight

Date	Run No.	Time		Loader Drops @ 4.075 ton	
		Start	Stop	Start	Stop
4/11/97	VE's	7:40 a.m.	11:30 a.m.	0.0	184.0

### PROCESS WEIGHT

$$Pw = \frac{\text{Total Loader Buckets Processed (5.14 ton/bucket)}}{\text{Total Processing Time}}$$

$$VE's \quad Pw = \frac{(184.0 \text{ buckets})(4.075 \text{ ton/bucket avg.})}{3 \text{ hours } 50 \text{ minutes}} = 195.6 \text{ ton/hr}$$

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

*Bob Coble*

Mr. Bob Coble, General Manager

**VI. CRUSHING PLANT LOG SHEETS**

Date	Hours of Operation Crusher		Total Hours of Operation Crusher	Total Material Crushed (tons)	Water Pressure to Spray Bars (PSI)	Hours of Operation Diesel Generator		Total Hours of Operation Generator	Total Gallons Fuel Used (Daily)	Water Truck Operation		Reason Water Truck was not operating	Maintenance Performed & Operating Comments
	Start	Stop				Start	Stop			Start	Stop		
Mon 4/7	7:30	4:00	4	4.00	45	7:30	4:00	8	40	X		Rain	
Tue 4/8	7:30	4:00	2 9	300 <del>300</del>	45	7:30	4:00	6	30	X		Rain	Flipped Hammers 332.
Wed 4/9	8:00	4:00	5	600	45	7:30	4:00	8	40	7:00 4:30			Replaced Roller Asmb on conc. Magnet
Thu 4/10													
Fri 4/11													
4/12													
4/13													
Weekly Totals:													

FRONTIER RECYCLING  
PORTABLE CRUSHER  
DAILY LOG SHEET

Date	Hours of Operation Crusher		Total Hours of Operation Crusher	Total Material Crushed (tons)	Water Pressure to Spray Bars (PSI)	Hours of Operation Diesel Generator		Total Hours of Operation Generator	Total Gallons Fuel Used (Daily)	Water Truck Operation		Reason Water Truck was not operating	Maintenance Performed & Operating Comments
	Start	Stop				Start	Stop			Start	Stop		
Mon 3/24	7:30	4:30	8 1/2	1000	40	1:50	4:30	9	45	7:30	4:00		
Tue 3/25	7:30	4:00	7 1/2	1000	40	7:00	4:30	9	45	7:30	4:00		
Wed 3/26	7:30	4:00	8	1000	40	7:00	4:30	9	45	7:30	4:00		
Thur 3/27	8:00	3:30	7 <del>8</del>	800	40	7:30	7:00	12	60	7:30	4:00		Fixed stop on crusher
Fri 3/28	X												
3/29													
3/30													
Weekly Totals:			31	3200				39	195				

FRONTIER RECYCLING  
PORTABLE CRUSHER  
DAILY LOG SHEET

Date	Hours of Operation Crusher		Total Hours of Operation Crusher	Total Material Crushed (tons)	Water Pressure to Spray Bars (PSI)	Hours of Operation Diesel Generator		Total Hours of Operation Generator	Total Gallons Fuel Used (Daily)	Water Truck Operation		Reason Water Truck was not operating	Maintenance Performed & Operating Comments
	Start	Stop				Start	Stop			Start	Stop		
3/31													
MON 4/1	7:30		7 1/2	950	40	7:30	3:30	7 1/2	37 1/2	7	4		Splice Belt
Tue 4/2	12		4	500	40	11	4:30	5	25	7	4		Splice Belt
wed 4/3	7:30		8 1/2	1000	40	7:00	4:30	9	45	7:00	4:00		
Thur 4/4	10		6	700	40	10	4:30	6	30	7:00	4:00		Elec.
FR 4/5	7:30		8	1000	7:00 40 <del>40</del>	7:00	4:30	9	45	7:00	4:00		
4/6													
Weekly Totals:			34	4150 <del>4250</del>				36 1/2	182 1/2				

FRONTIER RECYCLING  
PORTABLE CRUSHER  
DAILY LOG SHEET

Date	Hours of Operation Crusher		Total Hours of Operation Crusher	Total Material Crushed (tons)	Water Pressure to Spray Bars (PSI)	Hours of Operation Diesel Generator		Total Hours of Operation Generator	Total Gallons Fuel Used (Daily)	Water Truck Operation		Reason Water Truck was not operating	Maintenance Performed & Operating Comments
	Start	Stop				Start	Stop			Start	Stop		
	<del>3/19</del>	<del>4:30</del>	<del>4</del>										
Asph	3/20	8AM 4:30	8	1000	40	7:30 5:00	9	45	7:30 4:00				
Asph	3/21	7:30 4:30	8 1/2	1000	40	7:00 5:00	9 1/2	47 1/2	7:30 4:00				
Asph	3/22	7:30 12:00	4 1/2	5:00	40	9:00 1:00	6	30	7:30 4:00			Flipped Hammers	
Tile	3/23	7:30 12:00	4 1/2	350	40	7:00 12:00	5	25	7:30 4:00				
	Weekly Totals:		25 1/2	2850			29 1/2	147 1/2					

FRONTIER RECYCLING  
PORTABLE CRUSHER  
DAILY LOG SHEET