COLELLA & ASSOCIATES, INC.

Engineers / Scientists / Contractors Solving Environmental Issues

May 15, 2001

Project No.: 00-110

Mr. Howard L. Rhodes Director Division of Air Resources Management Marjory Stoneman Douglas Building 3900 Commonwealth Boulevard Tallahassee, Florida 32399-3000

RECEIVED

JUN 0 8 2001

Transmittal

Air Operating Permit Application

BUREAU OF AIR REGULATION

Project no: 4775112-002-AD

Relocatable Concrete Crusher Samsula Recycling, Inc. New Smyrna Beach, Florida

Air Construction Permit No. 7775112-001-AC

Dear Mr. Rhodes:

Colella & Associates, Inc., as directed by Samsula Recycling, Inc., submits the enclosed Air Operating Permit Application (2 copies) for the Relocatable Concrete Crusher currently operated by Samsula Recycling, Inc., under their Air Construction Permit No. 7775112-001-AC. This submission is in accordance with Condition 1 of Section II of the current air construction permit.

In addition, a check made out to the Florida Department of Environmental Protection is enclosed in the amount of \$1,000 for the application processing fee.

If there are any questions regarding the information presented herein, please contact James Colella at (386) 322-9080 or Mr. Mike Stokes at Samsula Recycling, Inc. at (386) 423-6769.

Respectfully yours,

COLELLA & ASSOCIATES, INC.

- Cololla

James C. Colella, P.E.

Principal

Check #: 10071 Dates 5-2201

ENCLOSURES

cc: Mr. Michael Stokes, Samsula Recycling, Inc.

COLELLA & ASSOCIATES, INC.

Engineers / Scientists / Contractors Solving Environmental Issues

May 15, 2001

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Mr. Howard L. Rhodes Director Division of Air Resources Management Marjory Stoneman Douglas Building 3900 Commonwealth Boulevard Tallahassee, Florida 32399-3000

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Relocatable Concrete Crusher
Samsula Recycling, Inc.
New Smyrna Beach, Florida
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ENCLOSURES.

cc: Mr. Michael Stokes, Samsula Recycling, Inc.

Samsula Landfill Inc.	10071
Samsula Landfill Inc. Ph 904-423-6769 363 State Rd. 415 New Smyrna Beach, Fl 32168 DATE	-7.70 l
PAY TO THE OF Florida Department of Environmental Protection	\$ 1000.00
Regions Bank	DOLLARS Pacinity Polish on Mark
FOR Air Operation Permit (Crusher) 101007111 1:0632066631: 59 0100 599	J. M. M.

.

AIR OPERATION PERMIT APPLICATION

Relocatable Concrete Crushing Operation Statewide Project Sites

Prepared For:

Samsula Recycling, Inc.
363 State Road 415
New Smyrna Beach, Florida 32168
Facility ID 7775112
Air Construction Permit No. 7775112-001-AC

May 2001

COLELLA & ASSOCIATES, INC. 805 Smokerise Boulevard, Port Orange, Florida 32127 Telephone (386) 322-9080 / Facsimile (386) 322-0068

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APPENDIX B: METHOD 9 VE TEST RESULTS, FEBRUARY 2001

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INTRODUCTION / SUMMARY

- 1. Samsula Recycling, Inc. (Samsula) received an Air Construction Permit (No. 7775112-001-AC) for a relocatable concrete crushing operation within Florida and began operating the concrete crusher in late February 2001. Samsula anticipates the crusher will primarily (more than 50 percent of the time) be operated at the Samsula Landfill in New Smyrna Beach, Volusia, Florida (see Figures 1 and 2).
- 2. The crushing operation includes an Eagle 1200 Crusher, a rubber tired loader, and discharge conveyors. Concrete debris is delivered to the project site by trucks and stockpiled. The debris is sized if required to fit into the crusher's hopper. The loader feeds the hopper of the Eagle 1200 Crusher with two (2) sets of screens has the potential to process debris at a rate of 120 tons per hour. The concrete debris is crushed to obtain processed aggregate within a 3/8- and 1/2-inch range. A Process Flow Diagram is provided as Figure 3.
- 3. The potential emissions from the crushing of the concrete debris and work area is particulate matter (PM), dust, at the points identified on Figure 4. The potential emissions from the fuel (diesel) powered loader and crusher's generator are considered minor sources.
- 4. Samsula operates water suppression equipment (water truck for the work area, water hoses for the stockpiles, and water spray nozzles in the concrete crusher's hopper and at the loading point from the crusher onto the discharge conveyors) when concrete debris is being crushed to minimize the potential of dust generation. Samsula's Watering and O&M Plan is presented in Appendix A.
- 5. Samsula has conducted the required Visible Emission Test (EPA Method 9) in late February 2001. The results, provided in Appendix B, indicate compliance with the emission standards of the subject AC permit.
- 6. The permit application (Tab 1.0) and enclosed materials (Figures and Appendices) are provided to document the operation, equipment being used, emissions, and methods to control the emissions. Appendix C provides the additional supporting documents required by the FDEP (Condition 15, Section 11 of Permit No. 7775112-011-AC) to receive the Air Operating Permit.
- 7. The Samsula equipment and operational standards meet the FDEP and EPA requirements for stationary sources and emissions monitoring.

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Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

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

I. APPLICATION INFORMATION

Identification of Facility

	··				
1.	Facility Owner/Company Name: Samsula	Recycling, Inc.			
2.	Site Name: Statewide (facility is not fixed	based)			
3.	Facility Identification Number: 7775112	[] Unknow	n		
4.	Facility Location: Mobile Facility to be loc	cated at project	site		
	Street Address or Other Locator: Volusia, S	eminole, and O	range Counties		
	City: County:		Zip Code:		
5.	Relocatable Facility?	6. Existing Pe	rmitted Facility?		
	[X] Yes [] No	[X] Yes	[] No		
<u>Ap</u>	oplication Contact				
1.	1. Name and Title of Application Contact: Mr. Michael Stokes, Manager				
2.	2. Application Contact Mailing Address: Organization/Firm: Samsula Recycling, Inc. Street Address: 363 S. R. 415				
	City: New Smyrna Beach Sta	ite: FL	Zip Code: 32168		
3.	Application Contact Telephone Numbers:				
·	Telephone: (386) 423-6769	Fax: (386)	423-1436		
<u>Ap</u>	Application Processing Information (DEP Use)				
1.	Date of Receipt of Application:				
2.	Permit Number:				

DEP Form No. 62-210.900(3) - Form

Purpose of Application

Air Operation Permit Application

Tl	iis	Application for Air Permit is submitted to obtain: (Check one)
[]	Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.
[X	(] Iı	nitial non-Title V air operation permit for one or more newly constructed or modified emissions units.
		Current construction permit number: 775112-001-AC
[]	Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.
		Current construction permit number:
		Operation permit number to be revised:
[]	Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.
		Current operation/construction permit number(s):
[]	Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.
		Operation permit number to be revised:
		Reason for revision:
Ai	r (Construction Permit Application
Th	iis	Application for Air Permit is submitted to obtain: (Check one)
[]	Air construction permit to construct or modify one or more emissions units.
[]	Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.
ſ	1	Air construction permit for one or more existing, but unpermitted, emissions units

DEP Form No. 62-210.900(3) - Form

Owner/Authorized Representative

1. Name and Title of Owner/Authorized Representative:

Mr. Charles Y. McDonald, Owner

2. Owner/Authorized Representative Mailing Address:

Organization/Firm: Samsula Recycling, Inc.

Street Address: 363 S. R. 415

City: New Smyrna Beach

State: FL

Zip Code: **32168**

3. Owner/Authorized Representative Telephone Numbers:

Telephone: (386) 423-6769

Fax: (386) 423-1436

4. Owner/Authorized Representative Statement:

I, the undersigned, am the owner or authorized representative* of the facility addressed in this application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted Iniffions unit.

5-25-01

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: James C. Colella

Registration Number: 41545

2. Professional Engineer Mailing Address:

Organization/Firm: Colella & Associates, Inc.

Street Address: 805 Smokerise Boulevard

City: Port Orange

3. Professional Engineer Telephone Numbers:

Telephone: (386) 322-9080

Zip Code: 32127

Fax: (386) 322-0068

DEP Form No. 62-210.900(3) - Form

Effective: 2/11/99

State: FL

4. Professional Engineer Statement:

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

- (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
- (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [X], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature FE 41545

Date

(seal)

^{*} Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	Concrete Crusher and Associated Operations	AO2B	\$1,000

Application Processing Fee

Check one: [X] Attached - Amount: \$ 1,000	[Not Applicable
--	---	------------------------------------

DEP Form No. 62-210.900(3) - Form

Construction/Modification Information 1. Description of Proposed Project or Alterations: 2. Projected or Actual Date of Commencement of Construction: 3. Projected Date of Completion of Construction: **Application Comment**

DEP Form No. 62-210.900(3) - Form

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

] 1.	Facility UTM Coor	dinates: Volusia Cou	nty				
	Zone: 17	East (km): 2	255.526	Nort	h (km): 3367.127		
2.	Facility Latitude/Lo	ongitude:					
	Latitude (DD/MM/	SS): 28/59/24	Long	itude (DD/MN	M/SS): 81/04/23		
3.	Governmental	4. Facility Status	5. Facil	ity Major	6. Facility SIC(s):		
	Facility Code:	Code:	Grou	p SIC Code:			
	0			1705			
<u> </u>		<u>A</u>		1795	<u> </u>		
7.		limit to 500 characters					
		ndfill at 363 S. R. 415 in			County (See Figure 1).		
1 ne	e facility location infori	mation presented above r	reflects this loc	ation.			

Facility Contact

- 1. Name and Title of Facility Contact: Mr. Michael Stokes, Manager
- 2. Facility Contact Mailing Address:

Organization/Firm: Samsula Recycling, Inc.

Street Address: 363 S. R. 415

City: New Smyrna BEach State: FL Zip Code: 32168

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3. Facility Contact Telephone Numbers:

Telephone: (386) 423-6769 Fax: (386) 423-1436

DEP Form No. 62-210.900(3) - Form

Facility Regulatory Classifications

Check all that apply:

1. [] Small Business Stationary Source?	[] Unknown
2. [] Synthetic Non-Title V Source?	
3. [] Synthetic Minor Source of Pollutants Other	than HAPs?
4. [] Synthetic Minor Source of HAPs?	
5. [X] One or More Emissions Units Subject to NS	SPS?
6. [] One or More Emission Units Subject to NES	SHAP Recordkeeping or Reporting?
7. Facility Regulatory Classifications Comment (limsource respective to particulate matter and has a capacity of tons per hour with the screens. The facility is regulated by N	250 tons per hour but operates less than 120

Rule Applicability Analysis

- 62-204 General Provisions
- 62-210 Stationary Sources Stationary Sources
- 62-212 Stationary Sources Preconstruction Review
- 62-296 Stationary Sources Emissions Standards (62-296.711 Materials Handling, Sizing, Crushing and Grinding Operations)

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- 62-297 Stationary Sources Emissions Monitoring
- NSPS, 40CFR60.670 (Subpart OOO)
- 40 CFR 60, Subpart A Standards of Performance for New Stationary Sources
- 40 CFR 61, Subpart M Asbestos NESHAP
- HCEPC Rule 1-3.61 Hillsborough County EPC (Particulate RACT)
- JEPB Rule 2.8201 City of Jacksonville/Duval County (Particulate RACT)

DEP Form No. 62-210.900(3) - Form

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested E	missions Cap	4. Basis for Emissions	5. Pollutant Comment
		lb/hour	tons/year	Cap	
PM	В		2.58	Other	Hours of operation times the emissions factor
			_		
	· 				
		•			
	:				
-					
	- "				<u>-</u>
:					

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DEP Form No. 62-210.900(3) - Form

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

Area Map Showing Facility Location:
[X] Attached, Document ID: <u>FIG. 1</u> [] Not Applicable [] Waiver Requested
Facility is mobile and will be located at a project site. The crusher will primarily be based at the Samsula
Landfill. See Figure 1.
2. Facility Plot Plan:
[X] Attached, Document ID: <u>FIG. 2</u> [] Not Applicable [] Waiver Requested
Facility is mobile and will be located at a project site. The crusher will primarily be based at the Samsula
Landfill. See Figure 2.
3. Process Flow Diagram(s):
[X] Attached, Document ID: <u>FIG. 3</u> [] Not Applicable [] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter:
[X] Attached, Document ID: <u>Appendix A</u> [] Not Applicable [] Waiver Requested
5. Supplemental Information for Construction Permit Application:
[] Attached, Document ID: [X] Not Applicable
6. Supplemental Requirements Comment: N/A
The state of the s

DEP Form No. 62-210.900(3) - Form

Emissions Unit Information Section <u>1</u> of <u>1</u> III. EMISSIONS UNIT INFORMATION

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

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Add	dressed in This Section: (Check	one)			
[] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).					
process or production unit	mation Section addresses, as a si is and activities which has at leas so produce fugitive emissions.				
	rmation Section addresses, as a s as and activities which produce for	ingle emissions unit, one or more ugitive emissions only.			
2. Description of Emissions Un	nit Addressed in This Section (li	mit to 60 characters):			
Fugitive particulate emissions from powered generator. The generator	concrete debris crushing operation. is considered a minor source.	Equipment is powered by a diesel			
3. Emissions Unit Identificatio	n Number:	[] No ID			
ID: 001		[] ID Unknown			
4. Emissions Unit Status	5. Initial Startup Date:	6. Emissions Unit Major			
Code:	_	Group SIC Code:			
A	February 28, 2001	1795			
7. Emissions Unit Comment: (Limit to 500 Characters)				
7. Emissions Unit Comment: (Limit to 500 Characters) Fugitive emissions are possible from the handling of raw materials (concrete debris) as being placed into crusher's hopper, the crushing of the raw material into the desired size(s), the handling of the processed materials on conveyors (2) and loading the processed materials onto trucks.					

DEP Form No. 62-210.900(3) - Form

Emissions Unit Information Section <u>1</u> of <u>1</u> Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):
Fugitive Particulate Emissions - Spray bars are provided at the potential emissions points on the crushers equipment; hopper and loading points of the processed material conveyors (2). Stockpiles are watered by hoses/spray heads and haul roads by water trucks.
2 Control Device or Method Code(s): 061

Emissions Unit Details

1.	Package Unit: Concrete Crusher Manufacturer: Eagle	Model Number: 1200	
2.	Generator Nameplate Rating: N/A	MW	
3.	Incinerator Information: N/A		
İ	Dwell Temperature:	°F	
	Dwell Time:	secon	ds
	Incinerator Afterburner Temperature:	°F	

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate: N	I/A		mmBtu/h
2.	Maximum Incineration Rate:	N/A	lb/hr	tons/day
3.	Maximum Process or Throughp	out Rate: 25	50 tons per hour	
4.	Maximum Production Rate: 25	0 tons per	hour	- "
5.	Requested Maximum Operating	g Schedule:	:	
		16 hours	s/day	7 days/week
		52 week	s/year	5,824 hours/year
6.	Operating Capacity/Schedule C	omment (l	imit to 200 charact	ers):
For	r flexibility, the proposed operating s	chedule is re	equired.	

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DEP Form No. 62-210.900(3) - Form

Emissions Unit Information Section <u>1</u> of <u>1</u> B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on P	lot Plan or	2. Emission Point Type Code:									
Flow Diagram? Fugitiv	e 01 to 05		4								
(see Figure 4 for locations)											
3. Descriptions of Emission P	oints Comprising	g this Emissions 1	Unit for VE Tracking (limit to								
100 characters per point):			•								
FUGITIVE PARTICULATE EMIS	SSIONS - Crusher'	s Hopper and Proc	essed Materials Conveyors (2).								
	•										
			·								
4. ID Numbers or Description	s of Emission U	nits with this Emi	ssion Point in Common:								
i. In remotes of Description	3 Of Elinssion Ci	nts with this Lith	ssion four in Common.								
	00)1									
	0.	, •	•								
5. Discharge Type Code:	6. Stack Heig	ht: N/A	7. Exit Diameter: N/A								
c. c.semmge 1)pe ceue.		feet	feet								
F		1001	1001								
8. Exit Temperature: N/A	9. Actual Vol	umetric Flow	10. Water Vapor: N/A								
°F	Rate: N/A		%								
	1000. 1071	acfm	70								
		12. Nonstack Emission Point Height:									
11. Maximum Dry Standard Flo	ow Rate:	12. Nonstack Er	nission Point Height								
11. Maximum Dry Standard Flo											
11. Maximum Dry Standard Flo N/A	ow Rate: dscfm	12. Nonstack Er 6 to 12									
· · · · · · · · · · · · · · · · · · ·	dscfm										
N/A 13. Emission Point UTM Coord	dscfm dinates:	6 to 12	feet								
N/A 13. Emission Point UTM Coord	dscfm	6 to 12									
N/A 13. Emission Point UTM Coord Zone: E 14. Emission Point Comment (1)	dscfm dinates: fast (km): limit to 200 char	Nortacters): The emiss	h (km):								
N/A 13. Emission Point UTM Coord Zone: E	dscfm dinates: fast (km): limit to 200 char	Nortacters): The emiss	h (km):								
N/A 13. Emission Point UTM Coord Zone: E 14. Emission Point Comment (1)	dscfm dinates: fast (km): limit to 200 char	Nortacters): The emiss	h (km):								
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N/A 13. Emission Point UTM Coord Zone: E 14. Emission Point Comment (1)	dscfm dinates: fast (km): limit to 200 char	Nortacters): The emiss	h (km):								
N/A 13. Emission Point UTM Coord Zone: E 14. Emission Point Comment (1)	dscfm dinates: fast (km): limit to 200 char	Nortacters): The emiss	h (km):								

3

DEP Form No. 62-210.900(3) - Form

Emissions Unit Information Section $\underline{1}$ of $\underline{1}$ C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Pro	cess/Fuel Type)	(limit to 500 cl	narac	ters):					
1	31 /			,					
Diesel generator to power the crusher and conveyors. Emissions are considered a minor source.									
2. Source Classification Code (SCC): 2-02-001-02 and 203-001-01 3. SCC Units: Thousand Gallons Burned									
4. Maximum Hourly Rate: N/A	5. Maximum 1	Annual Rate: 6	6.	Estimated Annual Activity Factor: N/A					
6. Maximum % Sulfur: N/A	7. Maximum		8.	Million Btu per SCC Unit: N/A					
9. Segment Comment (limit	to 200 characters	s):							
-									
Based on an approximate rate of	6 gallons of diesel p	er hour to operat	te the	crusher.					
6 gal/hr x 8.5 hr/day x 312 days/y	ear + 1,000 = 15.91	thousand gallons	burn	ed					
	,	, and the second							
Segment Description and Ra	ate: Segment of								
1. Segment Description (Pro	cess/Fuel Type)	(limit to 500 c	harac	eters):					
				·					
	(0.00)	···-							
2. Source Classification Cod	le (SCC):		3.	SCC Units:					
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity Factor:					
6. Maximum % Sulfur:	7. Maximum	% Ash:	8.						
9. Segment Comment (limit	to 200 characters	:):	<u> </u>						
j. Joginani comment (mm.	200 0	,,,							

4

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Emissions Unit Information Section	1	of .	1
Pollutant Detail Information Page		_of	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

Pollutant Emitted: PM	2. Pollutant Regulatory Code: WP						
3. Primary Control Device 4. Secondary Code: 061 Code: N/A							
6. Potential Emissions: Crusher Hopper lb/hour	7. Synthetically Limited? 0.51 tons/year []						
8. Emission Factor: 0.0007	9. Emissions Method Code:						
Reference: Table 11.19.2-2, AP-42, 5 th E SCC 3-05-020-01	dition 3						
10. Calculation of Emissions (limit to 600 char	racters):						
250 tons/hour x 0.0007 pounds/ton x 5,824 hours/year + 2,000 lbs/ton = 0.51 tons/year .							
10. Pollutant Potential Emissions Comment (li	mit to 200 characters):						
Allowable Emissions Allowable Emissions	of N/A						
Basis for Allowable Emissions Code:	Future Effective Date of Allowable Emissions:						
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:						
	lb/hour tons/year						
5. Method of Compliance (limit to 60 characters)	ers):						
6. Allowable Emissions Comment (Desc. of C	Operating Method) (limit to 200 characters):						

DEP Form No. 62-210.900(3) - Form

Emissions Unit Information Section	1	of .	1
Pollutant Detail Information Page		of	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM	2. Pollutant Reg	2. Pollutant Regulatory Code: WP					
·	ondary Control Device e: N/A	5. Total Percent Efficiency of Control: N/A					
6. Potential Emissions: Top and Botton lb/hour	n Conveyor Screens 0.07 tons/year	7. Synthetically Limited? []					
8. Emission Factor: 0.000048 lb. / ton of processed	concrete debris	9. Emissions Method Code:					
Reference: Table 11.19.2-2, AP SCC 3-05-020-06	3						
10. Calculation of Emissions (limit to 6	00 characters):						
250 tons per hour x 0.000048 ponds/ton x 5,8	24 hours/year x 2 screens	- 2,000 lbs/ton = 0.07 tons/year					
11. Pollutant Potential Emissions Comr	ment (limit to 200 charac	eters):					
Allowable Emissions Allowable Emis	sions of	N/A					
Basis for Allowable Emissions Cod	e: 2. Future Eff Emissions	fective Date of Allowable					
3. Requested Allowable Emissions and	d Units: 4. Equivalen	t Allowable Emissions:					
		lb/hour tons/year					
5. Method of Compliance (limit to 60 characters):							
6. Allowable Emissions Comment (De	esc. of Operating Method	d) (limit to 200 characters):					

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Emissions Unit Information Section 1 of 1

Pollutant Detail Information Page __of

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM	2. Pollutant Regulatory Code: WP								
3. Primary Control Device 4. Secondary Code: 061 Code: N /A	Control Device	5. Total Percent Efficiency of Control: N/A							
6. Potential Emissions: Stockpiles lb/hour	2.0 tons/year	7. Synthetically Limited? []							
8. Emission Factor: 0.00137 lb. / ton of concrete	debris processed	9. Emissions Method Code:							
Reference: Equation 1 of Chapter 13.2.4 5 th Edition	of AP-42,	3							
10. Calculation of Emissions (limit to 600 cha	racters):								
E = k (0.0032)(U/5) ^{1.3} / (M/2) ^{1.4} ; E = 0.001137 • E = emission factor (pound per ton) • K = particle size multiplier (used 0.35 for 10um) • U = mean wind speed (used 15 mph) • M = material moisture content (used 4.8percent) Estimated daily stockpiled material = 4,000 tons Estimated Annual Emissions 0.001137 x 365 days/year x 4,000 tons/day x 2 stockpiles / 2,000 pounds/ton = 2 tons/year 12. Pollutant Potential Emissions Comment (limit to 200 characters):									
Allowable Emissions Allowable Emissions	of	N/A							
1. Basis for Allowable Emissions Code:	2. Future Eff Emissions	ective Date of Allowable:							
3. Requested Allowable Emissions and Units	: 4. Equivalent	t Allowable Emissions:							
	1	lb/hour tons/year							
5. Method of Compliance (limit to 60 characters):6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):									
	·								

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

<u>Vi</u>	sible Emissions Limitation: Visible Emiss	sions Limitation1 of1
1.	Visible Emissions Subtype: RULE	2. Basis for Allowable Opacity:
		[X] Rule 62.296.711 [] Other
3.	Requested Allowable Opacity:	
	Normal Conditions: 10 to 20 %	Exceptional Conditions: None %
	Maximum Period of Excess Opacity Allow	ved: min/hour
4.	Method of Compliance: EPA METHOD	9
6.	Visible Emissions Comment (limit to 200 of Opacity limit for receiving hopper, portable belt Opacity limit for crusher 15% Opacity limit for truck loading/unloading <20	conveyors and screens 10%
<u>Co</u>		ONITOR INFORMATION ject to Continuous Monitoring) s Monitor of N/A
1.	Parameter Code:	2. Pollutant(s):
3.	CMS Requirement:	[] Rule [] Other
4.	Monitor Information:	
	Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
		or remained appendicular rest Butter
7.	Continuous Monitor Comment (limit to 20	<u> </u>
7.		<u> </u>

1

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G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1.	Process Flow Diagram [X] Attached, Document ID: <u>FIG. 3</u> [] Not Applicable	[]	Waiver Requested
2.	Fuel Analysis or Specification [] Attached, Document ID: [X] Not Applicable	[]	Waiver Requested
3.	Detailed Description of Control Equipment [X] Attached, Document ID: Appendix A [X] Not Applicate	ole	[] Waiver Requested
4.	Description of Stack Sampling Facilities [] Attached, Document ID: [X] Not Applicable	[]	Waiver Requested
5.	Compliance Test Report			
	[X] Attached, Document ID: App. B			
	[X] Previously submitted, Date: March 21, 2001			
	[] Not Applicable			
6.	Procedures for Startup and Shutdown [] Attached, Document ID: [X] Not Applicable	[]	Waiver Requested
7.	Operation and Maintenance Plan [X] Attached, Document ID: App. A [] Not Applicable	[]	Waiver Requested
8.	Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable	1		
9.	Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable			
	 Supplemental Requirements Comment: Requirements Per Section II, Condition 15 of the Air Construction Perpendix C) Resolution and closure of violations/penalties with the Department Training Program and Documented Training. Corporate Environmental Policy 		No.	: 7775112-001-AC, see

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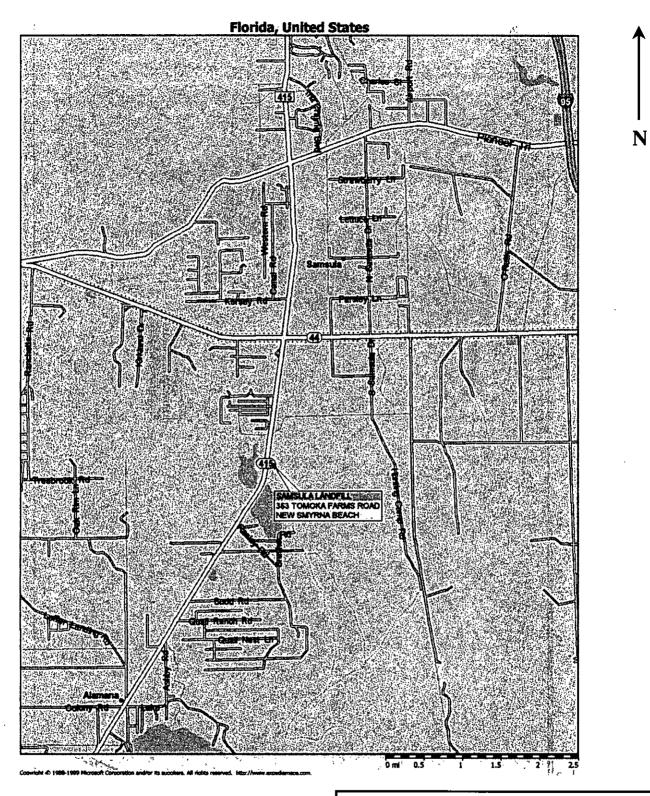
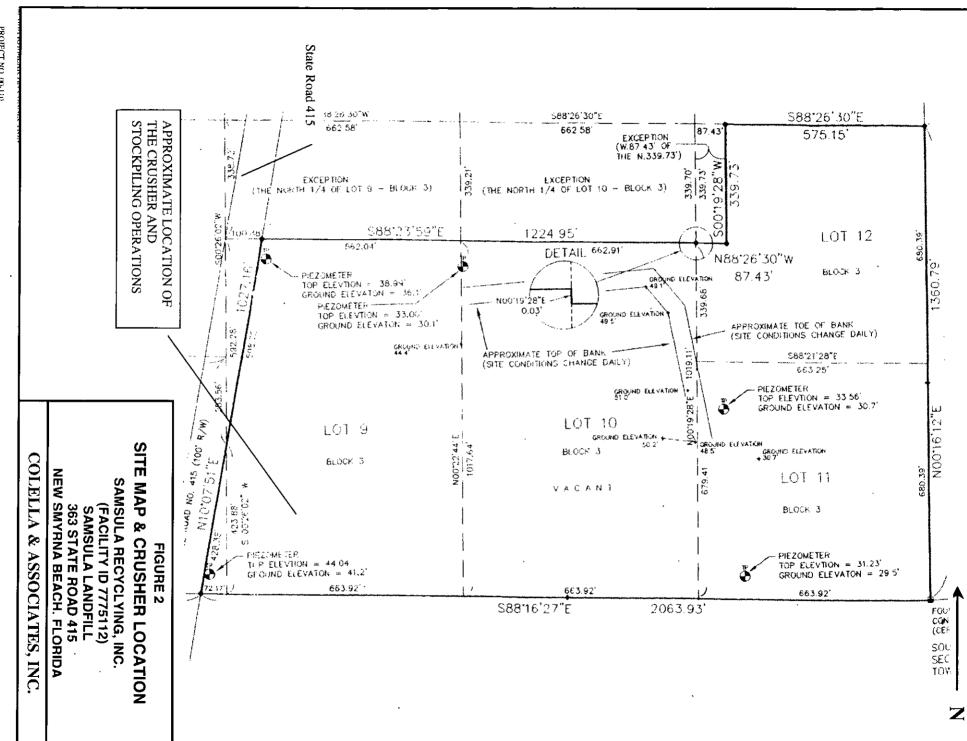
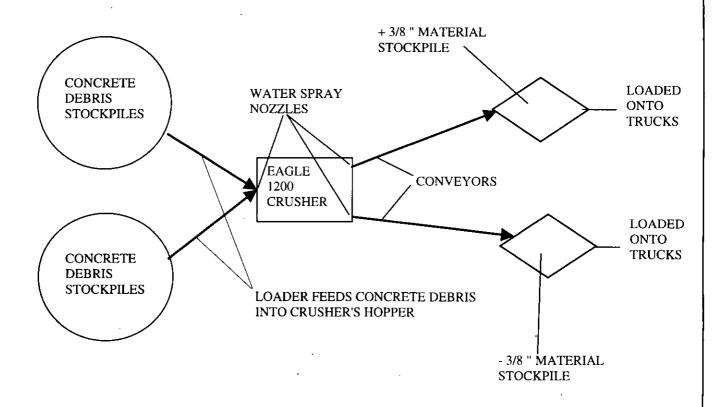


FIGURE 1 SITE LOCATION MAP

SAMSULA RECYCLYING, INC. (FACILITY ID 7775112) SAMSULA LANDFILL 363 STATE ROAD 415 NEW SMYRNA BEACH. FLRORIDA

COLELLA & ASSOCIATES, INC.





NOTE: STOCKPILES AND WORKING AREA WILL BE WATERED AS IS NECESSARY TO MINIMIZE THE GENERATION OF PARTICULATE EMISSIONS AS DUST.

FIGURE 3 PROCESS FLOW DIAGRAM

CONCRETE DEBRIS CRUSHING OPERATION
SAMSULA RECYCLYING, INC.
(FACILITY ID 7775112)
SAMSULA LANDFILL
363 STATE ROAD 415
NEW SMYRNA BEACH, FLRORIDA

COLELLA & ASSOCIATES, INC.

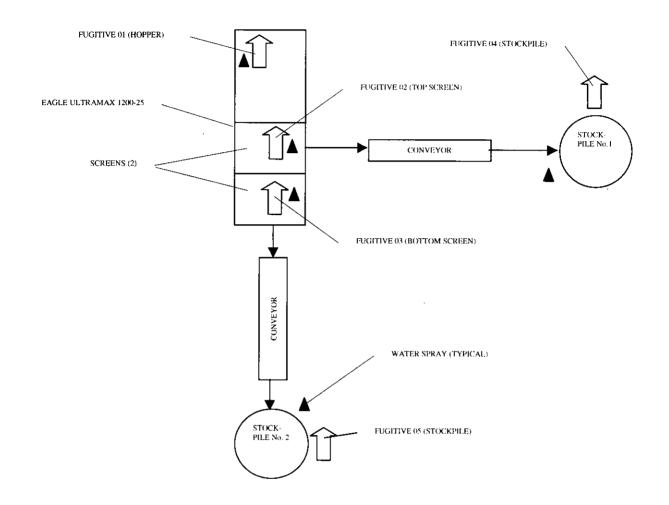


FIGURE 4 EMISSION POINTS & CONTROLS

SAMSULA RECYCLYING, INC. (FACILITY ID 7775112) SAMSULA LANDFILL 363 STATE ROAD 415 NEW SMYRNA BEACH, FLRORIDA

COLELLA & ASSOCIATES, INC.

APPENDIX A

SAMSULA RECYCLING, INC.'S DUST SUPPRESSION AND O&M PLAN

APPENDIX A - DUST SUPPRESSION PLAN and O&M PLAN SAMSULA RECYCLING, INC.

1. Crusher

- Crusher's spray bar and associated nozzles in the hopper will be maintained operational.
- Water supply to be provided by tanker or hard piping to water supply prior to operating crusher.
- Crusher will not operate if the spray bar/nozzles or other devices to apply water in the hopper are not functioning.
- Water pressure to be maintained at least 135 psi to develop adequate misting and coverage.
- Crusher operator will operate the crusher in a manner to minimize dust generation during crushing by controlling the flow of water to the spray bar/nozzles.

2. Work Area

- A water truck or other water application system will apply water to the ground surface to minimize
 dust being generated from the delivery of concrete debris, from the loading of the crusher's
 hopper, from the conveying of processed materials, from stockpiling the processed materials, from
 loading the processed materials into trucks, and from the truck traffic hauling the processed
 materials.
- Crusher operator will control the water application rate onto the ground surface to minimize dust generation from wind crosion and/or equipment traffic.
- The crusher will not operate if dust suppression in the work area is not controlled.

3. Processed Materials Conveyors

- Maintain the water spray equipment operational at the loading point of the processed material from the crusher onto the discharge conveyors (2).
- Water supply to be provided by tanker or hard piping to water supply prior to operating crusher and conveyors.
- Crusher will not operate if the spray bar/nozzles or other devices to apply water at the loading points of the discharge conveyors are not functioning.
- Water pressure to be maintained at least 135 psi to develop adequate misting and coverage.
- Crusher operator will control the flow of water to the spray bar/nozzles to maintain a relatively dust free working environment.

4. Stockpiled Materials

- All stockpiles will be sprayed with water to minimize dust generation by wind erosion and/or the handling of the materials during loading operations.
- Water supply to be provided by tanker or hard piping to water supply prior to operating crusher and conveyors.
- Adequate spray heads will be provided for each stockpile and the water pressure will be maintained at least 135 psi to develop adequate misting and coverage.
- Crusher operator will control the water application rate onto the stockpiles to minimize dust generation from wind crosion and/or loading operations.

5. Exception

• Stockpiles and the work area watering can be suspended during rain events and subsequent to a rain event if dust is not being generated. Upon first notice of dust generation by wind erosion and/or equipment movement, water application will begin.

APPENDIX B EPA METHOD 9 VISIBLE EMISSIONS TESTS RESULTS

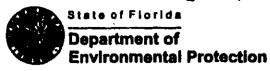
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CONTROL EQUIPMENT	FEEDER	100 T/HR	5	(_)	QC) 35		<u> </u>		
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START 50' STOP 50'		STOP NW	11	X	\\		41		-		
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WIND SPEED		IRECTION		21			\bigcirc		51				}	
START 1-2 MPHSTOP SAME			STOP SPILE	22		$\overline{}$	Ă		52					
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SOURCE NAME SAMSULLA RECYCLING INC 08SERVATION DATE START TIME STOP 02/28/01 9:12 Am 9:4													
SAN15WL	A KE	CYCL	ING INC	10032/	02/28/01			START TIME 9:12 Am			STOP TIME		
ADDRESS 363 SR 415				SEC	73/5	<u> </u>		7.7.	SEC		 	/	AM
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NEW SMYRNA BEACH PHONE	STATE	=_	ZIP 32/68	2	Q	0	0	Q	32				
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	17775		001- AC	_					34				T
PROCESS EQUIPMENT SCREEN (5)		OPERA	TING MODE DT/HR	5			\sim		35				-
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SPRAY NOZZLE				 	X	$ \mathcal{L} $	\mathcal{Q}	\searrow			ļ		<u> </u>
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START SCREENS AT FRUNT				8	\bigcirc		O	\bigcirc	38		(_
HEIGHT ABOVE GROUND LEVEL START 20' STOP 20'	HEIGHT	RELATIVE	E TOOBSERVER	9					39				
DISTANCE FROM OBSERVER			STOP /4'	10		M	\succ	} 	40				<u> </u>
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DESCRIBE EMISSIONS	3747	MAN AND	STOP IV/VW	 -	<u> </u>	$ \mathcal{Y} $	\mathcal{Q}		41				
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EMISSION COLOR			NTINUOUS []	13	LO i	0	0	\bigcirc	43	-		i	
START CLEAR STOP SAME	FUGITIV	E & INT	ERMITTENT -	14	\bigcirc	\bigcirc	\bigcirc	\bigcirc	44				
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DESCRIBE BACKGROUND		/		18	OI				48				
	STOP 4			19	$\overline{\bigcirc}$	$\overline{\bigcirc}$	$\widetilde{\wedge}$	X	49				
START GREEN STOP	SKY CON	Dr.	STOP PC	20	\prec	\prec	\bowtie	\bowtie					
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				24	\bigcap		<u> </u>	一	54				
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ADDRESS				SEC		<u> </u>		7.95 MG			10.10 AM		
363 SR.	415			MIN	0	15	30	45	MIN	0	15	30	45
				1	0	0	0	0	31				
CITY /	STATE	- 	ZIP	2	O	0	0	0	32				
NEW SMYRNA BEACH	SOURCE	<u></u>	132/68	3	10			7	33				
·			001-AC	4	0	0	0	Ó	34				
PROCESS EQUIPMENT PORTABLE BELT CONVEY	20(1)		TING MODE	5	0	0		(7)	35				
CONTROL EQUIPMENT			TING MODE	6	10	K		1	36	<u> </u>			
SPRAY NOZZLE	l			7	ħ		7		37				
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This is to Certify That KELLY ROBERTS

has completed the STATE OF FLORIDA viable emissions evaluation training and is a qualified observer of viable emissions as specified by EPA reference method θ_i .

This Certificate Expires

Aug 16, 2001

Certificate Officer

WIOIN

Your certificate is valid for six (6) months. To keep your certification current, you must recertify on or before the expiration date on the card. Please mark your calender accordingly.

Provided field certification is continuous the classroom certificate expires: $Feb.\ 15\,,\ 2002$

If field certification is not continous classroom certification must be obtained prior to your next field certification attempt.

If you have any questions about your certification, please contact M.D. Harley at 850/921-9509.

APPENDIX C

RESOLUTION OF REQUIREMENTS OF SECTION II, CONDITION 15 AIR CONSTRUCTION PERMIT (NO. 7775112-001-AC)

- Resolution and Closure of violations/penalties with the Department
- Training Program and Documented Training
- Corporate Environmental Policy



Department of **Environmental Protection**

Jeb Bush Governor Central District 3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803-3767

David B. Struhs Secretary

March 7, 2001

Remittance: 420885

DDN/PNR:

Samsula Recycling Inc 363 Sr 415 New Smyrna Beach FL 32168

RE: Receipt Number 345196

Dear Sir/Madam:

Your remittance, check number 316620953 for \$5,450.00, was received by the Department of Environmental Protection on February 26, 2001.

Sincerely,

Kris Tulloch

Department of Environmental Protection

Transmittal: 17698

Deposit:

CRAR009/

"More Protection, Less Process"

Printed on recycled paper.

TRAINING PROGRAM

STATE-WIDE CRUSHING OPERATION SAMSULA RECYCLING, INC.

- 1. Every employee associated with the operation of the crusher will be provided training, initial and refresher.
- 2. Existing employees with the crushing operation will be trained within 14-days upon receipt of the air permit, construction and operation.
- 3. New employees associated with the crushing operation will be trained within 7-days upon being hired.
- 4. The training, initial and refresher, will address:
 - Permit conditions.
 - Area of operation.
 - Material handling/stockpiling.
 - Environmental concerns.
 - Equipment operation.
 - Fuel handling.
 - Dust control.
 - Noise concerns.
 - Vibration concerns.
- 5. At each new operating location, site and operating conditions will be addressed with the equipment operators by a responsible individual of Samsula Recycling, Inc.
- 6. Refresher training will be provided approximately every 12-months from the initial training of the employee or at least once a year for all employees associated with the crusher operation.
- 7. Training will be provided by an individual knowledgeable of the permit, equipment, subject operation, and associated environmental regulations.

CONCRETE CRUSHER TRAINING SAMSULA RECYCLING, INC.

Construction Permit Conditions

- 5-year term. Operational permit is being obtained and then will be renewed on a defined schedule.
- Training of crusher employees will be provided upon receipt of permit, employment, and annually thereafter.
- Crusher is relocatable and all permit conditions same at each location.
- Permit must be with the crusher at all times.
- Can not allow unconfined emissions (dust).
- Dust suppressant, water, must be applied to stockpiles, crushing operations and traffic area.
- Crusher operators must shutdown the equipment immediately when a continuous dust cloud is visible.
- Crusher can operate 16-hours per day, 364-days per year (5,824 hours per year).
- Crusher can not exceed 250-tons per hour. Based on the use of screens, the crusher's production reduces to 100-tons per hour.
- Crusher operation is certified by Visual Emission (VE) testing annually. Five (5) emission points (hopper loading, crusher, conveyors, screens, and loading) have been identified in the permit for VE testing.
- No. 2 Fuel Oil, or better, can be used in the crusher's generator.
- Operational Log must be maintained and include:
 - production rate (number of bucket loads x pounds per bucket, or other means).
 - Hours of operation.
 - Maintenance and repair performed.
 - Type of dust suppressant and amount applied to stockpiles, roadway, crusher operation, and traffic area.
 - Fuel consumption of the crusher's generator.
 - Water truck operations and reason if truck is not used.
- Records must be held for three (3) years.
- If excess emissions occur, the FDEP must be notified. Based on the control of the equipment, the need to notify the FDEP should be minimal. If dust is observed anywhere, additional watering will be performed and/or the crushing operation will be stopped until the dust emission problem can be resolved.
- Only concrete construction debris, road/bridge, asphalt and reject concrete block can be crushed.
- Materials unacceptable include concrete pipe, painted concrete blocks, siding from buildings, and/or asbestos containing materials.
- 2. Operate crusher equipment as per manufacturer's recommendations to minimize noise and vibration generation.
- 3. Watering of stockpiles and work areas should be stopped if a flow of water begins from the area is noted. Watering will be started when the area shows signs of drying.

TRAINING DOCUMENTATION

STATE-WIDE CRUSHING OPERATION SAMSULA RECYCLING, INC.

1.	The following items were addresses.
	• Permit conditions (yes) (no).
	Area of operation (yes) (no).
	 Material handling/stockpiling (yes) (no).
	 Environmental concerns <u>(yes)</u> (no).
	 Equipment operation (yes) (no).
	• Fuel handling (yes) (no).
	 Dust control (yes) (no). Noise concerns (yes) (no).
	• Vibration concerns (yes) (no).
2.	Place of training: SANGULA RECYCLUS INC
5.	Training provided by:
4.	Date of training: 1 MARCO
5.	Individual(s) trained:

Name (Printed)	Signature	Initial	Refresher
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2 Chuck Brisin	Chal	V	
3. Scott HASKIUS	In A'	<u> </u>	
4 Andrew MATHERS	Adres METAS	v	
5. JAMES J. H/11	Jame & Nice	<u>ر</u>	
6. Mike Stokes	Michael Alt		
7. DAVID STOWL	Bart. Long		
8. Charles McDONALD	Who I much		
9.	Juli Julia		
10.			

CORPORATE ENVIRONMENTAL POLICY

STATE-WIDE CRUSHING OPERATION SAMSULA RECYCLING, INC.

1. Objective

Samsula Recycling, Inc., will conduct business, operate associated equipment and handle the associated materials:

- To maintain compliance with the applicable air permits (construction and operational) issued by the Florida Department of Environmental Protection (FDEP),
- To minimize the potential of violating other environmental regulations, and
- To minimize the potential of nuisance concerns (noise, vibration, dust) to neighboring residents, businesses, and/or individuals.

2. Policies

To achieve the stated objective, Samsula Recycling, Inc., will:

- Obtain and maintain applicable FDEP air permits.
- Process only materials designated in the permit(s).
- Maintain the area of the crushing operation to comply with applicable and/or associated regulations.
- Operate and maintain the equipment to achieve compliance with the permit conditions and in a manner to minimize the potential of environmental concerns/impacts.
- Operate only on properties that do not have other permitted air pollution facility or obtain appropriate modifications to the associated air permits.
- Conduct required monitoring to demonstrate compliance.
- Develop and maintain training programs, initial and refresher.
- Train all related personnel with the crusher operation, permit conditions, environmental concerns, and nuisance concerns.
- Maintain an operational log of all materials delivered to the facility, materials accepted/rejected, materials processed, dust suppressant quantity used, equipment maintenance performed, and processed materials removed.
- Minimize the potential of nuisance concerns (noise, vibration, dust) to neighboring residents, businesses, and/or individuals.
- Notify the FDEP of modifications to the crusher operation prior to making the modifications.

• Use new No. 2 oil or better fuel to operate the desel engine.

5-25-01 Date