NONMETALLIC MINERAL PROCESSING PLANTS (CRUSHERS) AIR GENERAL PERMIT REGISTRATION FORM

Part II. Notification to Permitting Office

(Detach and submit to appropriate permitting office; keep copy onsite)

Instructions: To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050, F.A.C. (\$100 as of the effective date of this form)

Registration Type
Check one:
INITIAL REGISTRATION - Notification of intent to: ☐ Construct and operate a proposed new facility. ☐ Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).
RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to: Continue operating the facility after expiration of the current term of air general permit use. Continue operating the facility after a change of ownership. Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.
Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only
If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box. All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s):
No air operation permits currently exist for this facility.
General Facility Information
<u>Facility Owner/Company Name</u> (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)
Cross environmental services, Inc.
Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)
Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)
Street Address: 39644 FIGSTREET City: Crystal springs County: Pasco Zip Code: 33524
Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility)
7-1-2009

DEP Form No. 62-210.920(2)(e) Effective: January 10, 2007

Owner/Authorized Representative	
Name and Position Title (Person who, by signing this fo	orm below, certifies that the facility is eligible to use this
air general permit.)	10-
Print Name and Title: CHARLES L. GRAY	- V. P. DEMOLITION DIVISION
•	
Owner/Authorized Representative Mailing Address Organization/Firm: Cross ENVIONMENTA	Scriber INC (CES)
Organization/Firm: COSS ENVIONMENTA	TARCOLORS! LAC COLOS
Street Address: PO BOX 1299	
City: CRYSTAL SPRINGS County: 1	Pasco Zip Code: 33524
Owner/Authorized Representative Telephone Numbers	
Telephone: \$13.783.1688	Fax: 813.782.5657
Cell phone (optional): 813 - 714 - 5029	
912 111 2021	
Facility Contact (If different from Owner/Authorized	t Representative)
	contacted regarding day-to-day operations at the facility.)
Print Name and Title:	contacted regarding day-to-day operations at the facility.)
Time Ivaline and Time.	
Facility Contact Mailing Address	
Organization/Firm:	
Street Address:	
City: County:	Zip Code:
Facility Contact Telephone Numbers	
Telephone:	Fax:
Cell phone (optional):	
,	
Owner/Authorized Representative Statement	
This statement must be signed and dated by the person na	amed above as owner or authorized representative
I, the undersigned, am the owner or authorized repre	esentative of the owner or operator of the facility
addressed in this Air General Permit Registration Fo	
belief formed after reasonable inquiry, that the facili	
use of this air general permit and that the statements	
	tain the facility described in this registration form so
as to comply with all applicable standards for contro	
the State of Florida and rules of the Department of E	
	·
I will promptly notify the Department of any changes	s to the information contained in this registration
form.	
	6-30-09
- I was the state of	6 70 0 1
Signature	Date

DEP Form No. 62-210.920(2)(e) Effective: January 10, 2007

Type of Facility	
Check one:	
Stationary Facility	🔀 Relocatable Facility
Type(s) of Precautions Used to Prevent	Unconfined Emissions
	t of roads, parking areas, stock piles and yards:
☐ Maintain Roads/Parking/Yards ☐ Remove Particulate Matter	 ✓ Use Water Application ✓ Use Dust Suppressant ✓ Install Wind Breaks
Check the location of spray bars at the n	nonmetallic mineral processing plant:
▼ Feeders	☑ Entrance to "Crusher" ☐ Exit of "Crusher".
Classifier Screens	Conveyor Drop Points
Description of Reasonable Precautions	
	rovide details of all types of reasonable precautions to be used to
T 227 - 12 121	ICONFINED EMISSIONS AT This
INERE AIRE NO UN	. UNIT IS USED STRICTLY OUTSIDE.
MOBILE FACILITY	. ONLY IS USED STREET OF OUT
	•
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•	
	*
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DEP Form No. 62-210.920(2)(e) Effective: January 10, 2007

Description of Facility

Below, or as an attachment to this form, provide a description of the nonmetallic mineral processing operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used

SEE ATTACHED

ON/10/09- IL DILLEE
* DESCRIPTION OR ATTACHMENTS DO NOT
PROUTDE INFORMATION W/REGARD TO MATERIALS
BRING PROCESSED.

7/10/0911:15 AM - CALLED MR. CHARLES GRAY FOR ADD'L
INFORMATION & HE WILL SEND E-MAIL W/
ADD'L INFO. N. W. W.

7/10/09- 1:52 pm - E-MAIL REQUEST FOR RATED CAPACITY OF NUMP PLANT SENT TO GRAY

MINOS- 3:00PM

* SEE ATTACKED ADDRNOUM FOR ADDI INFO

REQUESTED. - NEXT PAGE -

* ADDENDUM TO REGISTRATION FORM DATED 07/06/09

Dibble, Dickson

From:

Chuck Gray [cgray@crossenv.com] Friday, July 10, 2009 2:35 PM

Sent: To:

Dibble, Dickson

Cc:

cgrav@crossenv.com

Subject:

Re: Cross Environmental Svcs Inc. - Nonmetallic Mineral Processing Plant (NMMP) Air

General Permit Registration - Crystal Springs

Attachments:

Chuck Gray.vcf

thanks for the call; here is the info--we crush concrete, road base materiel, slabs and asphalt paving the advertized rate of material per hr. is 250TPH. if you need any more info please don't hesitate to call, thank you chuck gray

From: Dibble, Dickson

To: Chuck Gray
Cc: Ajhar, Rebecca

Sent: Friday, July 10, 2009 1:52 PM

Subject: Cross Environmental Svcs Inc. - Nonmetallic Mineral Processing Plant (NMMP) Air General Permit Registration

- Crystal Springs

Dear Mr. Gray,

Thank you for taking my call earlier today regarding my request for additional information concerning the relocatable crushing operation which you intend to operate under the NMMP Plant Air General Permit, and more specifically the material which you will be processing.

I also have one additional request. When you respond, would you be so kind to also include the rated Tons per hour (T/hr) capacity of your Eagle crusher? The unit rated T/hr capacity is critical in determining the applicability of the rules and in considering the completeness of your registration.

If you should have any questions, comments and/or concerns, please e-mail or call.

Thank you and have a great weekend!

Sincerely,

Dickson E. Dibble

Dickson E. Dibble, ES III

FL Dept of Environmental Protection Div. of Air Resource Management Bureau of Air Monitoring & Mobile Sources Air General Permit Program Tel. (850) 921-9586 FAX (850) 922-6979 ICG-#345

Dickson, Dibble@dep.state.fl.us



Please note: Florida has a very broad public records law. Most written communications to or from state officials regarding state business are public records available to the public and media upon request. Your e-mail communications may therefore be subject to public disclosure

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

2006 Model Year Certificate of Conformity

Manufacturer:

JOHN DEERE POWER SYSTEMS OF DEERE AND COMPANY

Engine Family:

6JDXL12.5073

Certificate Number:

JDX-NRCI-06-30

Intended Service Class:

NR 7 (225-450)

Fuel Type:

DIESEL

FELs:

DIESEI

g/kW-hr

NMHC+NOx: 5.8

NOx: NA

PM: NA

Effective Date:
Date Issued:

12/9/2005 DEC 0 9 2005

4 Ecuston

Merrylin Zaw-Mon, Director

Compliance and Innovative Strategies Division

Office of Transportation and Air Quality

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR Part 89, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following nonroad engines, by engine family, more fully described in the documentation required by 40 CFR Part 89 and produced in the stated model year.

This certificate of conformity covers only those new nonroad compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 89 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 89.

This certificate of conformity is conditional upon compliance of said manufacturer with the averaging, banking and trading provisions of 40 CFR Part 89, Subpart C. Failure to comply with these provisions may render this certificate void ab initio.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 89.129-96 and 89.506-96 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 89. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void ab initio for other reasons specified in 40 CFR Part 89.

This certificate does not cover nonroad engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.



DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0266 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT FUEL TYPE (liters)		USEFUL LIFE (hours)		
2006	6JDXL12.5073	12.5	Diesel	8000		
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
Direct Die Charge	esel Injection, Turbocha Air Cooler, Smoke Puff Control Modul	Limiter, Electronic	Loader, Tractor, Pump, Compressor, Generator Set, Other Industrial Equipment			

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION	EXHAUST (g/kW-hr)				OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
225 < kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		FEL	-	-	5.8	-	-	-	_	-
·		CERT	-	-	5.5	1.3	0.16	14	6	27

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this day of December 2005.

Allen Lyons, Chief

Rephael Sassait

Mobile Source Operations Division

7

JOHN DEERE

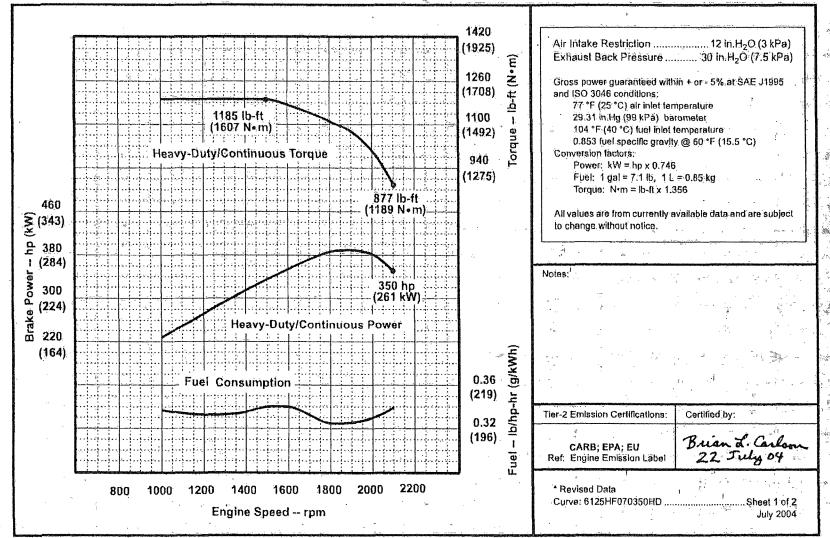
ENGINE PERFORMANCE CURVE

Rating: Gross Power Application: Industrial -

Heavy Duty/Continuous & Constant

10% Power Bulge

PowerTech 12:5 L Engine
Model: 6125HF070
JD Electronic Control
350 hp @ 2100 rpm
261 kW @ 2100 rpm
[See Option Code Table]



Common Specifications:	
General Data	
Model 6125HF	
Number of Cylinders	€
Bore and Stroke-in. (mm) 5.00 (127) x 6.50 (165
Displacement-in.3 (L)763 (2.5
Compression Ratio	17:
Valves per Cylinder-Intake/Exhaust	
Firing Order 1-5-3-6	3-2-4
Combustion SystemUnit Inje-	ction
Engine TypeIn-line, 4-C	ycle
AspirationTurbocha	rge
Charge Air Cooling SystemAir-t	o-Aí
Engine Crankcase Vent System)per
Maximum Crankcase Pressurein. H ₂ O (kPa)2	(0.5
Physical Data	
Length-In. (mm)52.2 (1	326
Width-In. (mm)31.8 (
Height-in. (mm)48.8 (1	
Weight, drylb (kg)2657 (1	205
(Includes flywheel housing, flywheel & electrics)	
Center of Gravity Location	
From Rear Face of Block (X-axis)in. (mm)21.5 (545
Right of Crankshaft (Y-axis)-in. (mm)0.6	(16
Above Crankshaft (Z-axis)-in. (mm)8.6 (218
Maximum Allowable Static Bending Moment at Rear F	
of Flywhi Hsg w/ 5-G Loadlb-ft (N·m)600 (
Thrust Bearing Load Limit (Forward)ib (N)	
Intermittent1835 (8	162
Continuous1225 (5	
A <u>ir System</u>	
Maximum Allowable Temp Rise-Ambient Air to	
Engine Inlet-°F (°C)1	5. (8
Maximum Air Intake Restriction:	,
Dirty Air Cleanerin, H ₂ O (kPa)25 (8.25
Clean Air Cleaner-In, H ₂ O (kPa)1	2 (3
Erigine Air Flow-ft³/min (m³/min)	25.8
Intake Mänifold Pressure-psi (kPá) 20 (1	
Compressor Discharge Temp°F (°C) 298	
Maximum Pressure Drop,	
Charge Air Coolerin.H ₂ O (kPa)	(13
Max Temp Out of Charge Air Cooler	
ATTOC (OCTO) A web to us of (CO)	

Engine Specification Data

Cooling System Engine Heat RejectionBTU/min (kW)	
Electrical System 12 Voit 24 Voit Min. Bettery Capacity (CCA)amp 1800 900 Max. Allow. Starting Circuit ResistOhm 0.0012 0.002 Starter Rolling Current At 32 °F (0 °C)amp 1280 600 At -22 °F (-30 °C)amp 1500 970)
Exhaust System Exhaust Flowft ³ /min (m ³ /min))
Fuel System Fuel Injection Pump) }
Lubrication System Oil Pressure at Rated Speed-psi (kPa))

renormance Data	
Rated Powerhp (kW)	350 (261)
Rated Speed-rpm	2100
BreakawaySpeed-rpm	2150
Fast Idle Speed-rpm	
Peak Torquelb-ft (N-m)	
Peak Torque Speedrpm	1500
Low Idle Speedrpm	900
BMEPpsi (kPa)	
Friction Power @ Rated Speedhp (kW)	67 (50)
Altitude Capability-ft (m)	13,000 (4,000)
Ratio-Air Fuel (HD)	22.0-4

Heavy Duty/Continuous Power

Engine Speed rpm	Heavy-Duty Power hp(kW)	Heavy-Duty Torque lb-ft(N·m)	BSFC lb/hp-hr (g/kWh)
2100	350 (261)	877 (1189)	0.340 (207)
2000	381 (284)	1000 (1358)	0.330 (201)
1900	388 (289)	1071 (1452)	0.327 (199)
1800	382 (285)	1114 (1510)	0.325 (198)
1600	357 (266)	1170 (1586)	0.340 (207)
1500 ⁸	338 (252)	1185 (1607)	0.340 (207)
1400	317 (236)	1185 (1607)	0.335 (204)
1200	271 (202)	1185 (1607)	0.332 (202)
1000	225 (168)	1185 (1607)	0.337 (205)

All values at rated speed and power with standard options unless otherwise noted.

* Revised Data

Curve: 6125HF070350HD Sheet 2 of 2

Juty 2004

@ 77°F (25°C) Ambient-*F (°C)140 (60)



Dust Suppression System

Eagle Crusher Company produces portable recycling units equipped with a dust suppression system as an integral part of the plant. The system consists of a series of spray nozzles mounted in the feed opening of the Ultra Max impactor, including both internal and external saturation. This dust suppression system requires only two (2) gallons per minute of water supply @ 30-35 PSI to control fugitive dust during processing and at transfer and discharge points.

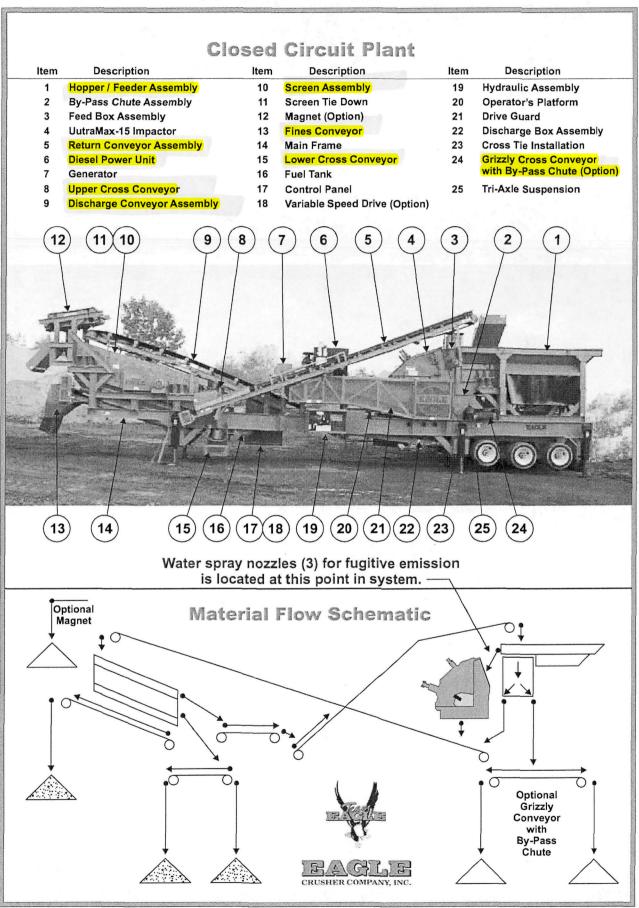
Due to the porous nature of the material, all of the induced moisture is absorbed and captured by the material being processed; therefore, no effluent runoff is created.

As an added benefit, a pipe tee connector can be attached and a hand held spray nozzle can be used to give the operator additional control.

EAGLE CRUSHER COMPANY, INC.

Team Eagle, Sales







NOISE LEVEL OF CRUSHERS AND OSHA REQUIREMENTS

After taking many noise level measurements in the field where our crushers are operating, we have come to the conclusion that most Eagle crushers operate somewhere in the vicinity of 80 to 90 decibels DBA scale when measured 3' from the noise source. However, some installations operate above this level.

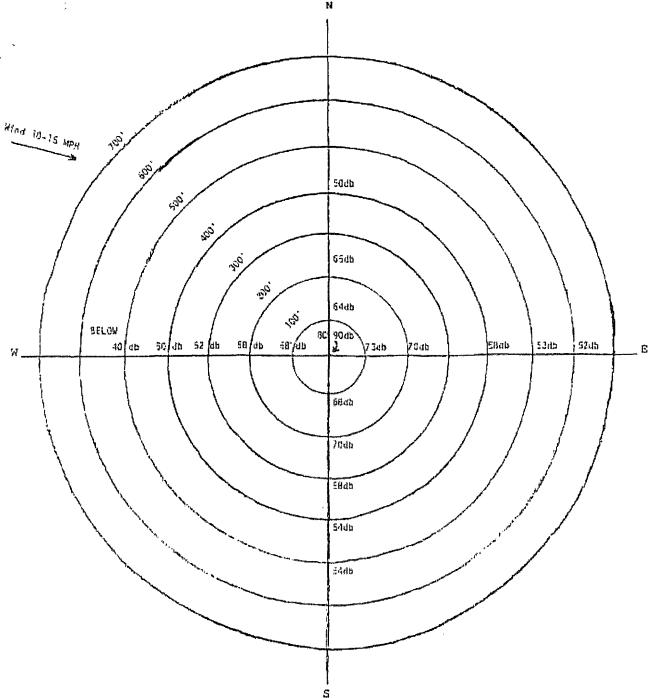
Because our equipment is often times part of a system (feeding devices, crushing devices, conveyors, classifying equipment, dust collection equipment, fans, etc.), and because we have no control over the method of feeding, nor the feed product, we find it impossible to guarantee the above mentioned noise levels.

If the noise levels found on any of the equipment in the field appear to be excessive, the following three courses of action are recommended:

- 1. Sound attenuating devices and/or mufflers are available and can be installed on internal combustion engines if the plant is so equipped.
- 2. The euipment can be enclosed in a sound-proof or deadening room. Sometimes some deadening partitions or movable curtains can be installed. However, due to the extremely large size of most crushing plants, this method is not only excessively expensive, but could hinder the normal operation and maintenance of the plant.
- 3. As most crushing plants are not located in close proximity to residential housing, or other businesses, the easiest and least expensive method of dealing with excessive noise is to do as the airlines do, and that is to have personnel working in the immediate area provided with inexpensive ear plugs and head sets. The method is generally accepted as the most effective solution.

Form 1003





NOTE:

Eagle Crusher Portable Concrete Recycling Plant Impact Crusher.

Tests were taken using a General Radio Company Sound Level Meter, Type 1565-8, A-Scale, Slow Button. Temperature 73°, sunny, clear, wind 10-15 MPH from N.W. Noise levels 400 feet from plant produced 58 db readings down wind and 50 db up wind from plant. Readings were taken without a windscreen attachment.

The owner of the plant reported that the plant has been operating 12 months without complaints from neighbors residing 400' from plant operation. We are optimistic that we will not have any noise problem that can't be resolved.



<u> Դիլիսինին մարդորվիի հերիսը հուրդիսն</u>

CROSS ENVIRONMENTAL SERVICES, INC #IPO Box 1299 Crystal Springs IFL 33524 (813) 783:1688 Fax (813) 788:911/4

FDEP RECEIPTS
PO BOX 3070
TALLAHASSEE, FL 32315-3070