2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

WDNR Facility Identification Number: [redacted]
Facility Name: [redacted]
Facility Location: [redacted]
Facility Address: [redacted]
Facility Air Contact: [redacted]S

Example Certification

Please read the enclosed information booklet, and then if necessary, call your Wisconsin DNR regional air contact:

Mike Sloat

P.O. Box 281

Reedsburg, WI 53959

(608) 963-1407

Michael.Sloat@dnr.state.wi.us

THE ENCLOSED CERTIFICATION FORM MUST BE SIGNED AND RETURNED BY JUN 30, 2004.
PLEASE MAIL TO:

RALPH PATTERSON
WISCONSIN DNR - AM/7
101 S WEBSTER ST
BOX 7921
MADISON, WI 53707-7921

- RETURN ONLY THE SIGNATURE PAGE -
PLEASE KEEP THE OTHER PAGES FOR YOUR FILES

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

WDNR Facility Identification Number: [redacted]
Facility Name: [redacted]
Facility Location: [redacted]
Facility Address: [redacted]
Facility Air Contact: [redacted]

I certify that the emission information which was provided to the Wisconsin Department of Natural Resources (WDNR) from the above-named facility is true and accurate to the best of my knowledge.
I have since received information from the WDNR Bureau of Air Management that summarized the air emissions from the above-mentioned facility. It is my understanding that this summary is based on the information referenced above which the facility provided as well as certain formulae and factors which WDNR utilized to prepare the emissions summary.

==========
Print full name of facility owner or operator

==========
Signature of facility owner of operator

==========
Date signed

==========
Title of facility owner or operator

( )
======= ==========
Telephone number

Completion of this form is mandatory. Penalties for failure to complete this form are contained in s.285.87, Stats. Personally identifiable information on this form will be used for no other purpose.

Form 4500-132
5-93

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

[redacted]

DNR Region: [redacted]
County: [redacted]
SIC Code: [redacted]

Startup Date:

UTM Zone: UTM X: UTM Y:

Mike Sloat
DNR Emission Inventory Contact

(608) 963-1407
P.O. Box 281
Reedsburg WI 53959
Michael.Sloat@dnr.state.wi.us

[redacted]

[redacted]

[redacted]

[redacted]

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

****
****

B01 BOILER WOOD FIRED BOILER

Installation Date:

Max Rated Capacity 10 MMBTU/HR HEAT

OUTGOING CONNECTIONS (other devices that receive emissions from this device):
B01 -----> C01 (C01 is a CONTROL - CONTROL FOR BOILER)

****

B01, Process 01 EXT COMBUSTION

SCC:	10200906
Primary Material:	WOOD
Hours/Day	16 HR/DAY
Days/Week	5 DAY/WK
Days/Year	260 DAY/YR
1st qtr % of operation (Jan-Mar)	25.0 %
2nd qtr % of operation (Apr-Jun)	25.0 %
3rd qtr % of operation (Jul-Sep)	25.0 %
4th qtr % of operation (Oct-Dec)	25.0 %

THRUPUT

Annual Fuel Use	57.5 TON	WOOD
Avg Fuel Use/Hour	0.0138221153 TON/HR	WOOD
Max Fuel Use/Hour	0.07 TON/HR	WOOD
Heat content/unit	13 MMBTU	WOOD
Avg Sulfur Content	0.01 WT%	WOOD
Max Sulfur Content	0.01 WT%	WOOD
Avg Ash Content	1 WT%	WOOD
Max Ash Content	1 WT%	WOOD

EMISSION FACTORS

PM	5.0000 LB / TON	of WOOD	DNR
SO2	0.0750 LB / TON		FIRE5.1B
NOX	1.5000 LB / TON		FIRE5.1B
ROG	1.4000 LB / TON	of WOOD	DNR
CO	4.0000 LB / TON	of WOOD	DNR
PM10	2.6000 LB / TON	of WOOD	FIRE6.22

CRITERIA EMISSIONS	NR438 Threshold	Uncontrolled/YR	Controlled/YR	Typ Ozone/DAY
PM	5.00 TON	0.144 TON	0.029 TON	
SO2	5.00 TON	0.002 TON	0.002 TON	
NOX	5.00 TON	0.043 TON	0.043 TON	0.331 LB
ROG	3.00 TON	0.040 TON	0.040 TON	0.309 LB
CO	5.00 TON	0.115 TON	0.115 TON	
PM10	5.00 TON	0.075 TON	0.015 TON	

HAP EMISSIONS
[none]

OUTGOING EMISSION DISTRIBUTION
B01 - 01 -----> C01 - 01 100% of the emissions

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

****
****

C01 CONTROL CONTROL FOR BOILER

Installation Date:

INCOMING CONNECTIONS (other devices that send emissions to this device):
B01 -----> C01 (B01 is a BOILER - WOOD FIRED BOILER)

OUTGOING CONNECTIONS (other devices that receive emissions from this device):
C01 -----> S01 (S01 is a STACK - STACK FOR C01)

****

C01, Process 01 CONTROLLING

Primary Material:

Control Efficiency	80 WT%	PM
Control Efficiency	80 WT%	PM10

OUTGOING EMISSION DISTRIBUTION
C01 - 01 -----> S01 - 01 100% of the emissions

****
****

C02 CONTROL CONTROL FOR PROCESSES

Installation Date:

INCOMING CONNECTIONS (other devices that send emissions to this device):
P01 -----> C02 (P01 is CHIPPING, PLANING OPERATION)
P02 -----> C02 (P02 is a DRYER - WOOD DRYING)

OUTGOING CONNECTIONS (other devices that receive emissions from this device):
C02 -----> S02 (S02 is a STACK - STACK FOR C02)

****

C02, Process 01 CONTROLLING

Primary Material:

Control Efficiency	80 WT%	PM
Control Efficiency	80 WT%	PM10

OUTGOING EMISSION DISTRIBUTION
C02 - 01 -----> S02 - 01 100% of the emissions

****
****

P01 @ CHIPPING, PLANING OPERATION

Installation Date:

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

OUTGOING CONNECTIONS (other devices that receive emissions from this device):
P01 -----> C02 (C02 is a CONTROL - CONTROL FOR PROCESSES)

****

P01, Process 01 @

SCC:	30700805
Primary Material:	WOOD
Hours/Day	16 HR/DAY
Days/Week	5 DAY/WK
Days/Year	260 DAY/YR
1st qtr % of operation (Jan-Mar)	25.0 %
2nd qtr % of operation (Apr-Jun)	25.0 %
3rd qtr % of operation (Jul-Sep)	25.0 %
4th qtr % of operation (Oct-Dec)	25.0 %

THRUPUT

Annual Throughput	3900 TON
Avg Hourly Thruput	0.9375 TON/HR
Max Hourly Thruput	10 TON/HR

EMISSION FACTORS

PM	1.5000 LB / TON	of WOOD	DNR
Information from Mike Sloat			
SO2	0.1400 LB / TON	of WOOD	DNR
Information from Mike Sloat			
NOX	0.6500 LB / TON	of WOOD	DNR
Information from Mike Sloat			
ROG	2.2000 LB / TON	of WOOD	DNR
Information from Mike Sloat			
CO	5.8000 LB / TON	of WOOD	DNR
Information from Mike Sloat			
PM10	0.2800 LB / TON	of WOOD	DNR
Information from Mike Sloat			

CRITERIA EMISSIONS	NR438 Threshold	Uncontrolled/YR	Controlled/YR	Typ Ozone/DAY
PM	5.00 TON	2.925 TON	0.585 TON	
SO2	5.00 TON	0.273 TON	0.273 TON	
NOX	5.00 TON	1.268 TON	1.268 TON	9.750 LB
ROG	3.00 TON	4.290 TON	4.290 TON	33.000 LB
CO	5.00 TON	11.310 TON	11.310 TON	
PM10	5.00 TON	0.546 TON	0.109 TON	

HAP EMISSIONS
[none]

OUTGOING EMISSION DISTRIBUTION
P01 - 01 -----> C02 - 01 100% of the emissions

****
****

P02 DRYER WOOD DRYING

Installation Date:

OUTGOING CONNECTIONS (other devices that receive emissions from this device):
P02 -----> C02 (C02 is a CONTROL - CONTROL FOR PROCESSES)

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

****

P02, Process 01 DRYING

SCC:	30701008
Primary Material:	WOOD
Begin Operation Date:	01-JAN-1986
Hours/Day	16 HR/DAY
Days/Week	5 DAY/WK
Days/Year	260 DAY/YR
1st qtr % of operation (Jan-Mar)	25.0 %
2nd qtr % of operation (Apr-Jun)	25.0 %
3rd qtr % of operation (Jul-Sep)	25.0 %
4th qtr % of operation (Oct-Dec)	25.0 %

THRUPUT

Annual Throughput	3900 TON	WOOD
Avg Hourly Thruput	0.9375 TON/HR	WOOD
Max Hourly Thruput	10 TON/HR	WOOD

EMISSION FACTORS

PM	2.2500 LB / TON	of WOOD,DRIED	DNR
Information from Mike Sloat			
PM10	0.9000 LB / TON	of WOOD,DRIED	DNR
Information from Mike Sloat			
CO2	760.0000 LB / TON	of WOOD,DRIED	FIRE6.23
FORMALDEHYDE	0.1100 LB / TON	of WOOD,DRIED	FIRE6.23

CRITERIA EMISSIONS	NR438 Threshold	Uncontrolled/YR	Controlled/YR	Typ Ozone/DAY
PM	5.00 TON	4.388 TON	0.878 TON	
PM10	5.00 TON	1.755 TON	0.351 TON	

HAP EMISSIONS	NR438 Threshold	Actual/YR
Formaldehyde	125.00 LB	429.000000 LB

GREENHOUSE GAS EMISSIONS	NR438 Threshold	Actual/YR
Carbon dioxide	100,000.00 TON	1,482.00 TON

OUTGOING EMISSION DISTRIBUTION
P02 - 01 -----> C02 - 01 100% of the emissions

****
****

P03 STOCKPILE BULK WOOD DUST STORAGE

Installation Date:

****

P03, Process 00 WOODWORKING

SCC:	30703002
Primary Material:	WOOD
Hours/Day	16 HR/DAY
Days/Week	5 DAY/WK
Days/Year	260 DAY/YR
1st qtr % of operation (Jan-Mar)	25.0 %

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

2nd qtr % of operation (Apr-Jun) 25.0 %
3rd qtr % of operation (Jul-Sep) 25.0 %
4th qtr % of operation (Oct-Dec) 25.0 %

THRUPUT

Annual Throughput	60	TON	WOOD WASTE
Avg Hourly Thruput	0.0144230769	TON/HR	WOOD WASTE
Max Hourly Thruput	4	TON/HR	WOOD WASTE

EMISSION FACTORS

PM	1.0000 LB / TON	of WOOD WASTE	DNR
Information from Mike Sloat			
PM10	0.5800 LB / TON	of WOOD WASTE	DNR
Information from Mike Sloat			

EXHAUST/RELEASE DATA

Release Vol FlowRate	1000	FT3/MIN
Release Height	10	FT
Release Temperature	70	F

CRITERIA EMISSIONS	NR438 Threshold	Uncontrolled/YR	Controlled/YR	Typ Ozone/DAY
PM	5.00 TON	0.030 TON	0.030 TON	
PM10	5.00 TON	0.017 TON	0.017 TON	

HAP EMISSIONS
[none]

OUTGOING EMISSION DISTRIBUTION
P03 - 00 -----> Fugitive 100% of the emissions

****
****

S01 STACK STACK FOR C01

Installation Date:

Stack Height	30	FT
Stack Diameter	4	FT

INCOMING CONNECTIONS (other devices that send emissions to this device):
C01 -----> S01 (C01 is a CONTROL - CONTROL FOR BOILER)

****

S01, Process 01 DISCHARGING

Hours/Day	16	HR/DAY
Days/Week	5	DAY/WK
Days/Year	260	DAY/YR

EXHAUST/RELEASE DATA

Normal Exhaust Rate	18000	FT3/MIN
Max Exhaust Rate	12500	FT3/MIN
Normal Exhaust Temp	120	F
Max Exhaust Temp	140	F

OUTGOING EMISSION DISTRIBUTION
S01 - 01 -----> Exhaust 100% of the emissions

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

****
****

S02 STACK STACK FOR C02

Installation Date:

Stack Height 40 FT
Stack Diameter 1 FT

INCOMING CONNECTIONS (other devices that send emissions to this device):
C02 -----> S02 (C02 is a CONTROL - CONTROL FOR PROCESSES)

****

S02, Process 01 DISCHARGING

Hours/Day 16 HR/DAY
Days/Week 5 DAY/WK
Days/Year 260 DAY/YR

EXHAUST/RELEASE DATA
Normal Exhaust Rate 12500 FT3/MIN
Max Exhaust Rate 12500 FT3/MIN
Normal Exhaust Temp 120 F
Max Exhaust Temp 140 F

OUTGOING EMISSION DISTRIBUTION
S02 - 01 -----> Exhaust 100% of the emissions

****
* *
* C O N N E C T I O N S U M M A R Y *
* *
****

B01 --> C01 --> S01

P01 --> C02 --> S02

P02 --> C02 --> S02

P03

****
* *
* E M I S S I O N F L O W S U M M A R Y *
* *
****

B01-01 --> C01-01 --> S01-01 --> outside

P01-01 --> C02-01 --> S02-01 --> outside

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

P02-01 --> C02-01 --> S02-01 --> outside

P03-00 --> outside

DEVICE AND PROCESS LIST

Device ID / Process ID	Device Code / Process Code	Device Name / Process Name
B01	BOILER	WOOD FIRED BOILER
01	EXT COMBUSTION	
C01	CONTROL	CONTROL FOR BOILER
01	CONTROLLING	
C02	CONTROL	CONTROL FOR PROCESSES
01	CONTROLLING	
P01	@	CHIPPING, PLANING OPERATION
01	@	
P02	DRYER	WOOD DRYING
01	DRYING	
P03	STOCKPILE	BULK WOOD DUST STORAGE
00	WOODWORKING	
S01	STACK	STACK FOR C01
01	DISCHARGING	
S02	STACK	STACK FOR C02
01	DISCHARGING	

CRITERIA EMISSIONS INDEX

ANNUAL ACTUAL EMISSIONS

ID	Page	PM	SO2	NOX	ROG	CO	PM10
B01-01	2	0.029 TON	0.002 TON	0.043 TON	0.040 TON	0.115 TON	0.015 TON
P01-01	4	0.585 TON	0.273 TON	1.268 TON	4.290 TON	11.310 TON	0.109 TON
P02-01	5	0.878 TON					0.351 TON
P03-00	5	0.030 TON					0.017 TON

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

FACILITY EMISSIONS SUMMARY

CRITERIA EMISSIONS	NR438 Threshold	Uncontrolled/YR	Controlled/YR	Typ Ozone/DAY
PM	5.00 TON	7.486 TON	1.521 TON	
SO2	5.00 TON	0.275 TON	0.275 TON	
NOX	5.00 TON	1.311 TON	1.311 TON	10.081 LB
ROG	3.00 TON	4.330 TON	4.330 TON	33.309 LB
CO	5.00 TON	11.425 TON	11.425 TON	
PM10	5.00 TON	2.393 TON	0.493 TON	

HAP EMISSIONS	NR438 Threshold	Actual/YR
Formaldehyde	125.00 LB	429.000000 LB

GREENHOUSE GAS EMISSIONS	NR438 Threshold	Actual/YR
Carbon dioxide	100,000.00 TON	1,482.00 TON

2003 Air Emissions Inventory Summary Report
State of Wisconsin Department of Natural Resources
Bureau of Air Management

DNR may post information from the Facility Emissions Summary above on the Internet in various formats.
This fall the following information for your facility will be placed on a webpage designed to show emission trends.

[redacted]

Material	Value	Unit
CO	11.4	TONS
NOX	1.3	TONS
PM	1.5	TONS
PM10	0.5	TONS
ROG	4.3	TONS
SO2	0.3	TONS