Massachusetts Department of Environmental Protection

eDEP Transaction Copy

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Username:	**MICHAELC68**
Transaction ID:	**1173429**
Document:	**AQ Source Registration Package (SR)**
Size of File:	**4336.05K**
Status of Transaction:	**Submitted**
Date and Time Created:	**3/29/2023:4:30:34 PM**

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Massachusetts Department of Environmental Protection
Bureau of Air and Waste

Source Registration (SR) or SR and Greenhouse Gas (GHG) Overview

2018
YEAR OF RECORD

1190564
FACILTY AQ Identifier

The "?" icons will reveal information about a particular portion of the form or question such as definitions, instructions, sources of assistance or information. Additional information about filling out these forms is available at the Source Registration and Greenhouse Gas Reporting Website: https://www.mass.gov/guides/massdep-source-registration

A. Create a Source Registration Package (SR) or SR and Greenhouse Gas(SR/GHG) Package.

1. Select existing or new facility :

☑ Existing Facility:Check to create a complete package for reporting year 2018

☐ Check if you added emission units or stacks since your last report.

☐ New Facility:Check if you have never before submitted an AQ Source Registration Package (SR) or (SR/GHG).

Date received (DEP use only - mm/dd/yyyy)

B. Amend an AQ Source Registration Package (SR) or SR and Greenhouse Gas(SR/GHG) Package.

☐ 1. Check if you need to correct or add to a previously submitted SR or SR/GHG Package **2018** ,check the boxes in the list below to select the forms/units you wish to work on.

2.Facility Name : CLEAN HARBORS OF BRAINTREE INC

Our records indicate that this facility has 23 Emission Units (points)

☑ Facility Information Form (general facility and contact)

☑ AP-TES Total Emissions Statement (facility-wide emissions; includes hazardous Air Pollutant (HAP) reporting).

	Emission unit name	DEP#	EU Category	Last Update
☑	HURST BOILER, 2.091 MMBTU/HR, NO. 2 FUEL OIL-0.3 S	2	FUEL BURNING DEVICE	2017
☑	CLEAVER BROOKS BOILER (NO.2 FUEL OIL, 0.3S)	3	FUEL BURNING DEVICE	2017
☑	CUMMINS GENERATOR #2 (NT855G2, DIESEL)	50	FUEL BURNING DEVICE	2017
☑	CATERPILLAR GENERATOR #1	55	FUEL BURNING DEVICE	2017
☑	2 LENNOX FURNACES SR 20Q5-140/154	64	FUEL BURNING DEVICE	2017
☑	INDUSTRIAL OIL FURNACE LG14-225	67	FUEL BURNING DEVICE	2017
☑	2 DRUM CRUSHING LINES	5	PROCESS	2017
☑	AG TANK A3-9,800 GAL	8	TANK	2017
☑	AG TANK A6- 9,500 GAL WASTE STREAM A-31	11	TANK	2017
☑	AG TANK A7 - 9,500 GAL.	12	TANK	2017
☑	AG TANK A8 - 10,000 GAL TANK	13	TANK	2017
☑	AG TANK A9- 10,000 GAL	14	TANK	2017
☑	AG TANK A17B - 750 GAL	18	TANK	2017
☑	AG TANK A22 (2,400 GAL)	23	TANK	2017
☑	AG TANK A23 (2,400 GAL)	24	TANK	2017
☑	AG TANK A24 (2,400 GAL)	25	TANK	2017

Massachusetts Department of Environmental Protection
Bureau of Air and Waste
Source Registration (SR) or SR and Greenhouse Gas (GHG) Overview

2018
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☑	AG TANK A25 (1,000 GAL)	26	TANK	2017
☑	AG TANK A13 (4,000 GAL), DIESEL LOW SULF	51	TANK	2017
☑	AG TANK A12 (6,300 GAL), NO. 2 FUEL OIL	52	TANK	2017
☑	AG TANK B1- POLYOLEFIN WASTEWATER NO VOCS	53	TANK	2017
☑	AG TANK B2- POLYOLEFIN TANK WASTEWATER NO VOCS	54	TANK	2017
☑	AG TANK B4- POLYOLEFIN H WASTEWATER NO VOCS	57	TANK	2017
☑	AG TANK B7- POLYOLEFIN TANKS WASTEWATER NO VOCS	60	TANK	2017
☑	STACK #1- INCINERATOR #1-VENT-O-MATIC	1	STACK	2017
☑	STACK #2- HURST BOILER, NO. 2 FUEL OIL	2	STACK	2017
☑	1 STACK - BOILER #1-CLEAVER BROOKS, NO 2 FUEL OIL	3	STACK	2017
☑	2 DRUM CRUSHING LINES	5	STACK	2017
☑	1 STACK GENERATOR (2)- CUMMINS AND CATERPILLAR	7	STACK	2017
☑	1 STACK-2 FURNACES - LENNOX	9	STACK	2017
☑	CUT OFF ROOM	10	STACK	2017

Massachusetts Department of Environmental Protection

Bureau of Air and Waste - Air Quality

Facility Information

2018
Year of Record

1190564
Facility AQ identifier

A. Facility Information:

1. Facility - the site or works where the regulated activity occurs:

CLEAN HARBORS OF BRAINTREE INC
a. Facility Name

1 HILL AVE
b. Facility Street Address Line 1

c. Facility Street Address Line 2

BRAINTREE
d. City/Town

MA
e. State

021840000
f. ZIP Code

7813807100
g. Facility Phone Number

7813807193
h. Facility Fax Number

2. Mailing address: (check all that apply)

☐ same address as facility address

1 HILL AVE
a. Facility Mailing Address / PO Box Line 1

b. Facility Mailing Address / PO Box Line 2

BRAINTREE
c. City/Town

MA
d. State

021840000
e. ZIP Code

3. Facility type - check one:

○ Utility ◉ Private ○ Tribal ○ Federal ○ State ○ Local Government

4. ORIS Facility Code - for large electrical utilities only:

ORIS Facility Code

5. ID Numbers:

34839
a. DEP Account Number / FMF Facility #

1190564
b. Facility AQ Identifier - SSEIS ID Number

6. Location :

42.235971
a. Latitude 42.9 - 41.2

70.972946
b. Longitude - West 73.5 - 69.8 Enter positive values only.

7. North American Industry Classification System (NAICS) 6 digits:

562211
a. (Primary)

b.

c.

d.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality
Facility Information

2018
Year of Record

1190564
Facility AQ identifier

8. Facility description (What is being produced and how it is being produced at this facility - update as needed):

CLEAN HARBORS OF BRAINTREE INC. IS A HAZARDOUS WASTE TSDF.
NO PRODUCTION AT THIS FACILITY.

9. Facility's normal hours of operation:

12:00 AM — a. Start Time
12:00 AM — b. End Time
☑ c. Continuous - 24 X 7 X 52

d. Which days is the facility open? ☐ S ☐ M ☐ T ☐ W ☐ T ☐ F ☐ S

10. Number of Employees: 16

11. Facility Owner: ☐ same address as facility mailing address (will copy address into fields below)

Please contact your MassDEP Regional Office if the ownership of this facility has changed.

CLEAN HARBORS OF BRAINTREE INC
a. Owner or Corporation Name

1 HILL AVE
b. Mailing Address Line 1 (for owner or corporation)

ATTN: GENERAL MANAGER
c. Mailing Address Line 2

BRAINTREE — d. City/Town
MA — e. State
021840000 — f. Zip Code

US — g. Country
042507498 — h. Owner TIN

7813807100 — i. Owner Phone Number
7134 — j. Extension
7813807193 — k. Owner Fax Number

fontaine.andrew@cleanharbors.com
l. Owner E-mail Address

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality
Facility Information

2018
Year of Record

1190564
Facility AQ identifier

12. Facility **contact** information:

☐ same address as facility address
☐ same address as facility mailing address

DAVID
a. Facility Contact **First** Name

MEDINA
Contact **Last** Name

1 HILL AVE
b. Mailing Address Line 1

c. Mailing Address Line 2

BRAINTREE
d. City/Town

MA
e. State

021840000
f. Zip Code

US
g. Country

medinad@cleanharbors.com
h. E-mail Address

7803807100
i. Phone Number

j. Extension

7813807193
k. Fax Number

13. **Air emissions information** contact:

☐ same name and address as facility contact name and address
☐ same address as facility address

JAMES R.
a. Air emissions contact **First** Name

LAUBSTED
Air emissions contact **Last** Name

26137 SOUTH RIDGELAND AVENUE
b. Mailing Address Line 1

c. Mailing Address Line 2

MONEE
d. City/Town

IL
e. State

604490000
f. Zip Code

US
g. Country

laubsted.j@cleanharbors.com
h. E-mail Address

6308542549
i. Phone Number

7134
j. Extension

7813807193
k. Fax Number

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality
Facility Information

2018
Year of Record

1190564
Facility AQ identifier

B. Preparer

1. Contact information for the **preparer** of this submittal:

- [ ] same name and address as air emissions contact name and address
- [ ] same name and address as facility contact name and address
- [ ] same address as facility address

MICHAEL
a. Preparer **First** Name

COMEAU
Preparer **Last** Name

CLEAN HARBORS ENVIRONMENTAL SERVICES
b. Mailing Address Line 1

42 LONGWATER DRIVE
c. Mailing Address Line 2

NORWELL
d. City/Town

MA
e. State

020610000
f. Zip Code

US
g. Country

comeau.michaeld@cleanharbors.com
h. E-mail Address

7817925174
i. Phone Number

j. Extension

7817921030
k. Fax Number

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality
Facility Information

2018
Year of Record

1190564
Facility AQ identifier

C. Notes

1. **Notes:** please include in the space below any additional information that will help DEP understand your submission (5000 character max).

D. Certification

"I certify that I have personally examined the foregoing and am familiar with the information contained in this report and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information; I believe that the information is true, accurate, and complete. I am aware that there are signification penalties for submitting false information, including possible fines and imprisonment."

A responsible official for the facility must provide the electronic signature. The signature and date are inserted below by eDEP during the signature Step.

Signed under the pains and penalties of perjury:

Signature of Responsible Official

Date

Responsible official - complete all fields below.

MICHAEL
a. **First** Name

COMEAU
b. **Last** Name

COMPLIANCE MANAGER
c. Title

7817925174
d. Phone Number

comeau.michaeld@cleanharbors.com
e. E-mail Address

Massachusetts Department of Environmental Protection

Bureau of Air and Waste - Air Quality

Facility Information

2018

Year of Record

1190564

Facility AQ identifier

Massachusetts Department of Environmental Protection
Bureau of Air and Waste

BWP AQ AP - TES
Total Emissions Statement & Hazardous Air Pollutant List

2018
YEAR OF RECORD

1190564
Facility AQ Identifier

A . Annual Total Emissions Statement

1. Facility Identifiers:

CLEAN HARBORS OF BRAINTREE INC
a. Facility Name

34839
b. DEP Account Number

1190564
c. Facility AQ Identifier

2. Total Emissions :

This form calculates your facility's actual and potential emissions by adding the emissions you entered in forms for each unit.The results are displayed in the table below . You must error check each emission unit's forms before the results below can be complete.

Pollutant:	PM 10-FIL	PM 2.5-FIL	PM-CON	SO2
Actual for previous year:	.0167 Tons	.0087 Tons	Tons	.2106 Tons
Actual for year of record:	0.0246 Tons	0.0157 Tons	0 Tons	0.2466 Tons
Potential emissions	9.4880 Tons	9.3526 Tons	0 Tons	11.9580 Tons
Max allowed emissions-annual:	Tons	Tons	Tons	Tons
Max allowed emissions-short term:	Tons	Tons	Tons	Tons
Short term Period				
Basis DEP Approval number or regulation:				

Pollutant:	PB	VOC	NH3	CO
Actual for previous year:	Tons	.0092 Tons	0 Tons	.0714 Tons
Actual for year of record:	0 Tons	0.0171 Tons	0 Tons	0.0986 Tons
Potential emissions	0 Tons	22.8354 Tons	0 Tons	29.3023 Tons
Max allowed emissions-annual:	Tons	36.2 Tons	Tons	Tons
Max allowed emissions-short term:	Tons	23600 Tons	Tons	Tons

Short term Period		Month		
Basis DEP Approval number or regulation:		MBR-95-RES-047		

Pollutant:	NO2	HOC
Actual for previous year:	.3395 Tons	Tons
Actual for year of record:	0.4676 Tons	0 Tons
Potential emissions	136.2320 Tons	0 Tons
Max allowed emissions-annual:	17.3 Tons	Tons
Max allowed emissions-short term:	9400 Tons	Tons
Short term Period	Month	
Basis DEP Approval number or regulation:	MBR-95-RES-047	

3.If you have **facility-wide** fuel, raw material, or product restrictions, either by plan approval or regulation complete the following for each :

a. EXEMPT (DEP approval # (most recent)) | 135411 (Amount of Restriction) | GALLONS (Restriction Units) | year (Per Unit Time)

NO. 2 FUEL OIL 0.3 PERCENT SULFUR
Description of fuel, raw material or product restricted

b. MBR-86-COM-027 (DEP approval # (most recent)) | 376680 (Amount of Restriction) | GALLONS (Restriction Units) | year (Per Unit Time)

NO. 2 FUEL OIL 0.3 PERCENT SULFUR
Description of fuel, raw material or product restricted

c. MBR-89-COM-31 (DEP approval # (most recent)) | 300 (Amount of Restriction) | HOUR (Restriction Units) | year (Per Unit Time)

NO. 2 FUEL OIL 0.3 PERCENT SULFUR
Description of fuel, raw material or product restricted

4. Greenhouse Gas Total Emissions:
This form calculates your facility's actual emissions and CO2e emissions for each greenhouse gas pollutant as well as total CO2e emissions by adding the emissions you entered in the forms for each emission unit. The results are displayed in the tables below. You must error check each emission unit's forms before the results below can be complete. If you are submitting an SR

and GHG Reporting package the table below will show the calculated results. If you are submitting an SR package the table will be blank. If you have GHG emissions to report, makes sure you are submitting an SR and GHG Reporting package, and not an SR package.

Pollutant:	CO2	CH4	N2O	SF6	Refrigerants-CO2e
Actual for previous year	Tons	Tons	Tons	Tons	Tons
Actual for year of record:	0 Tons	0 Tons	0 Tons	0 Tons	Tons
CO2e for previous year	Tons	Tons	Tons	Tons	Tons
CO2e for year of record (Tons)	0 Tons	0 Tons	0 Tons	0 Tons	Tons

5. Total CO2e emissions

0

a. Actual for previous year (Tons)

0

b. Actual for year of record (Tons)

B. Hazardous Air Pollutant Emissions

a.Does the facility have the potential to emit (PTE) 10 tons of any single listed Hazardous Air Pollutant (HAP)?

(•) Yes ( ) No

b.Does the facility have the potential to emit (PTE) a total of 25 tons of any combination of listed Hazardous Air Pollutants (HAPs)?

(•) Yes ( ) No

c.Does the facility have a restriction on total HAPS?

(•) Yes ( ) No

d.Are you required to report HAP emissions here for any other reason? (e.g., a permit condition)

( ) Yes (•) No

C. Hazardous Air Pollutants (HAPs)

1. Hazardous Air Pollutant List

HAP

METHYL ALCOHOL	67561
a. HAP Name	b. CAS # for individual HAPs

[ ] c. Check if this is your single largest HAP emission.

.152
d. Actual for previous year

0.036
e. Actual for year of record

12.8
f. Potential Emissions

18.6
g. Max allowed emissions – annual

5000
h. Max allowed emissions – short term

i. Short term period

MBR-95-RES-047
j. Basis DEP Approval number or regulation

HAP

TOLUENE
a. HAP Name

108883
b. CAS # for individual HAPs

☐ c. Check if this is your single largest HAP emission.

.021
d. Actual for previous year

.023
e. Actual for year of record

12.8
f. Potential Emissions

18.6
g. Max allowed emissions – annual

5000
h. Max allowed emissions – short term

i. Short term period

MBR-95-RES-047
j. Basis DEP Approval number or regulation

HAP

ETHYLENE GLYCOL
a. HAP Name

107211
b. CAS # for individual HAPs

☑ c. Check if this is your single largest HAP emission.

0
d. Actual for previous year

.109
e. Actual for year of record

12.8
f. Potential Emissions

18.6
g. Max allowed emissions – annual

5000
h. Max allowed emissions – short term

i. Short term period

MBR-95-RES-047
j. Basis DEP Approval number or regulation

If a HAP is not listed above, use the button located below to add .

Add New HAP

2. Total HAP Emissions

a. Actual for previous year	.289	
b. Actual for year of record:	.168	
c. Potential at max capacity uncontrolled:	38.4	
d. Max allowed emissions – annual:	55.8	Facility-wide restriction only
e. Max allowed emissions – short term:	10600	Facility-wide restriction only
f. Short term period:	Month	
g. Basis for max allowed emissions:	MBR-95-RES-047	DEP approval # or regulation

D. Notes and Attachments

1. **Notes:** Please include in the space below any additional information that will help DEP understand your submission.

2. **Attachments:**

☐ Check here to submit attachments to this form (e.g., calculations). For eDEP on-line filers, this will create a new step on your Current Submittals Page where you will attach electronic files to your submittal. For attachments that cannot be sent electronically, please list all such attachments in the notes field above and deliver them to DEP with a paper copy of this form.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste

Fuel Burning Device

Emission Unit

2018
Year of Record

2
DEP EU#

1190564
Facility AQ Identifier

A. Equipment Description

1. Faciltity Identifiers:

CLEAN HARBORS OF BRAINTREE INC
a. Facility Name

34839
b. DEP Account Number

1190564
c. Facility AQ Identifier

2. Emission Unit Identifiers:

HURST, 2.091 MMBTU/HR, NO. 2 FUEL OIL-0.3 S
a. Facility's choice of emission unit name - edit as needed

2
b. Facility's emission unit number / code - edit as needed

2
c. DEP emission unit #

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

3. Emission unit installation and decommission dates:

05/01/2003
a.Installation Date - estimate if unknown (mm/dd/yyyy)

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

○ No ○ Yes - Enter DEP's emissions unit number and name for the unit being replaced from the drop-down list below:

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit type code

BOILER

BOILER

If engine, is this an emergency generator? ○ Yes ○ No

If an emergency generator, please give the number of hours of operation during the reporting year for each category of operation:

Emergency Use(hours)

Massachusetts Department of Environmental Protection
Bureau of Air and Waste

Fuel Burning Device

Emission Unit

2018
Year of Record

2
DEP EU#

1190564

Non Emergency Use(hours)

Maintenance and Readiness Testing(hours)

HURST
b. Manufacturer

4VT-50BHP
c. Model number

2.0910
d. Max Input Rating MMBtu/hr (must be greater than 0)

1
e. Number of burners (enter "0" if not applicable)

f. Types of burner - check one:

- ○ rotary
- ◉ mech. atomizer
- ○ steam atomizer
- ○ air atomizer
- ○ traveling grate
- ○ hand fired
- ○ Other

Specify "other" burner type

HURST
g. Burner Manufacturer

30
h. Burner Model number

05/01/2003
i.Burner Installation Date (mm/dd/yyyy)

6. DEP approvals - leave blank if not applicable:

a. Most recent approval number

b. DEP approval date (mm/dd/yyyy)

7. Is this unit exempt under 310 CMR 7.02 Plan Approvals?

◉ Yes ○ No

8. If exempt from Plan Approval, indicate the reason for the exemption, from the drop-down list below. (e.g., cite a specific DEP regulation):

below thresholds in 310 CMR 7.02 (2)(b) 7 and 15

9. Additional State Reporting Requirements:

a. Are there other routine air quality reporting requirements for this emissions unit?

◉ Yes - Specify reporting frequency below ○ No - Skip to question 9c

b. Reporting frequency - check all that apply:

☐ Monthly ☐ Quarterly ☐ Semi-annual ☑ Annual ☑ RES

(include Operating Permit and Plan Approval reports, but not exceedance reporting)

c. Is this unit subject to (check all that apply):

☑ NESHAP ☐ NSPS ☐ MACT

10. Hours of operation for the emission unit:

☐ a. check if continuously operated - 24 X 7 X 52

Massachusetts Department of Environmental Protection
Bureau of Air and Waste

Fuel Burning Device

Emission Unit

2018
Year of Record

2
DEP EU#

1190564

24
b. Number of hours per day

7
c. Number of days per week

17
d. Number of weeks per year

e. Percent of total annual operation that occurs in each calendar quarter:

83.0	17.0	0.0	0.0
Q1	Q2	Q3	Q4

Sum of Q1+Q2+Q3+Q4 must = 100%
or 0 if the unit was not operated for any quarter

11. Ozone season schedule - May 1 through September 30:

0
a. Ozone season hours per day

0
b. Ozone season days per week

0
c. Weeks operated in ozone season

12. Emission Release Point - select one:

Engines click here for instructions:

Non-Stack Release Points:
- ○ fugitive
- ○ horizontal vent
- ○ engine exhaust
- ○ downward facing vent
- ○ vertical stack/vent less than 10ft

Physical Stacks:
- ◉ vertical stack
- ○ vertical with rain cap/sleeve

13. Link this unit to a physical stack (if applicable) - pick from the list below:

2 STACK #2- HURST BOILER, NO. 2 FUEL OIL

Facility's stack identifier from STACK form - to change stack name use the STACK form
If the stack for this unit is not listed, save and exit this form now and complete a new Stack form before returning to this form.

14. Is there an air pollution control device/s on this emissions unit?

○ Yes - answer a through i ◉ No - skip to question 15

Air pollution control device

Click the button below to add a new control device

Add New control device

15. Is there **monitoring equipment** on this emissions unit or its related control devices:

○ Yes - answer a through l ◉ No - skip to section B

	Monitor 1	Monitor 2	Monitor 3
a. Monitor type:	○ CEMs ○ opacity ○ other	○ CEMs ○ opacity ○ other	○ CEMs ○ opacity ○ other
	Describe	Describe	Describe
b. Manufacturer:			
c. Model Number:			
d. Monitor ID #:			
	Facility's Designation	Facility's Designation	Facility's Designation

Massachusetts Department of Environmental Protection
Bureau of Air and Waste

Fuel Burning Device

Emission Unit

2018
Year of Record

2
DEP EU#

1190564

e. Installation Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
f. DEP Approval #:			
g. DEP Approval Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
h. Decommission Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
i. Recorder?	yes no	yes no	yes no
j. Audible Alarm?	yes no	yes no	yes no
k. Data System?	yes no	yes no	yes no
l. Monitored Pollutants - check all that apply:	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other
	Describe	Describe	Describe

B. Fuels and Emissions

1. Fuel Name / Characteristics:

Number of fuels for this unit (previous records):

1

BOILER #2-HURST #30 - #2 OIL-0.3 SULFUR

Fuel Name

1

DEP Fuel #

Add a NEW fuel: Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package).

Number of Additional Fuels :

Delete this fuel: check box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle.

a. Source Classification Code (SCC):

10200501

SCC (call DEP if SCC will not validate)

EXTERNAL COMBUSTION BOILERS - INDUSTRIAL - DISTILLATE OIL -

Massachusetts Department of Environmental Protection
Bureau of Air and Waste

Fuel Burning Device

Emission Unit

2018
Year of Record

2
DEP EU#

1190564

GRADES 1 AND 2 - BOILER

SCC Description - filled by eDEP upon error check.

b. Type of fuel: FUEL NO.2

Fuel Description - filled by eDEP upon error check.

c. Sulfur content for oils and coal (0-2.2%): .138

Percent by weight

d. Ash content for oils and coal(0- 10.0%): 0

Percent by weight

e. Maximum hourly fuel rate for all firing burners:(enter "0"if unit decommissioned prior to this year of record): 0.0155 (Amount) 1000 GALLONS (Units per hour)

f. Do you have fuel or usage restrictions? (yes) no - skip to question 2

g. DEP approval number for fuel restrictions: EXEMPT

Most recent for this fuel

h. Annual usage restriction (for this fuel):(amount or hours) 111252 (Quantity) GALLONS (Units)

i. Short term use restriction (for this fuel):(amount or hours) 9271 (Quantity) GALLONS (Units)

Per (month) week day hour

2. Total actual fuel used for year of record:
(check your amount vs units and enter "0" if not used in the year of record)

2.0300 (a. Amount - year of record) 1000 GALLONS (b. Units)

12.39 1000 GALLONS

c. Total annual usage for prior year of record

3. Total emissions **for this fuel only** in tons per year:

Calculations: The form will automatically calculate the actual and potential emissions UNLESS you check a box to manually enter emissions for each specific pollutant. Click the "?" icon for information to help you decide how to use this feature:

Pollutant:	PM10-FIL(Report-ONLY filterable PM)	PM25-FIL(Report-ONLY filterable PM)	PM-CON	SO2
Actual for previous year:	0.0062 Tons	0.0015 Tons	Tons	0.1214 Tons
Actual for year of record:	0.0010 Tons	0.0003 Tons	Tons	0.0199 Tons
Potential emissions	0.0679 Tons	0.0170 Tons	Tons	1.3304 Tons
Emission Factor	1	0.25		142
in pounds per unit	1000 GALLONS	1000 GALLONS		1000 GALLONS
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed				

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emissions-annual:	Tons	Tons	Tons	Tons
Max allowed emissions-short term:	Tons	Tons	Tons	Tons
Short term Period				
Basis DEP Approval number or regulation:				

Pollutant:	PB	VOC	NH3	CO
Actual for previous year:	Tons	0.0012 Tons	Tons	0.0310 Tons
Actual for year of record:	Tons	0.0002 Tons	Tons	0.0051 Tons
Potential emissions	Tons	0.0136 Tons	Tons	0.3395 Tons
Emission Factor		0.20		5
in pounds per unit		1000 GALLONS		1000 GALLONS
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed emissions-annual:	Tons	Tons	Tons	Tons
Max allowed emissions-short term:	Tons	Tons	Tons	Tons
Short term Period				
Basis DEP Approval number or regulation:				

Pollutant:	NO2	specify other pollutant
Actual for previous year:	0.1487 Tons	Tons
Actual for year of record:	0.0244 Tons	Tons
Potential emissions	1.6294 Tons	Tons
Emission Factor	24	
in pounds per unit	1000 GALLONS	
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed emissions-annual:	Tons	Tons
Max allowed emissions-short term:	Tons	Tons
Short term Period		

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Basis DEP Approval number or regulation:		

4. Ozone season emissions - May 1 through September 30:

a. Typical day VOC emissions - pounds per day	b. Typical day NOx emissions - pounds per day
0	0
check to enter your own values	check to enter your own values

NOTE: The form will estimate the ozone season emissions for you. However, you may enter your own values by checking the boxes above.

C. Notes and Attachments

1. **Notes:** please include any additional information that will help DEP understand your submission.

2. **Attachments:**

Check here to submit attachments to this form (e.g., calculations) -add a note in the field above indicating what is attached. This will create a new step on your Transaction Overview Page where you will attach electronic files to your submittal. For attachments that cannot be sent electronically, please list all such attachments above and deliver them to DEP with a paper copy of this form.

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Facility AQ Identifier

A. Equipment Description

1. Faciltity Identifiers:

CLEAN HARBORS OF BRAINTREE INC
a. Facility Name

34839
b. DEP Account Number

1190564
c. Facility AQ Identifier

2. Emission Unit Identifiers:

CLEAVER BROOKS BOILER (NO.2 FUEL OIL, 0.3S)
a. Facility's choice of emission unit name - edit as needed

3
b. Facility's emission unit number / code - edit as needed

3
c. DEP emission unit #

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

3. Emission unit installation and decommission dates:

09/01/1986
a.Installation Date - estimate if unknown (mm/dd/yyyy)

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

(•) No ( ) Yes - Enter DEP's emissions unit number and name for the unit being replaced from the drop-down list below:

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit type code: BOILER

BOILER

If engine, is this an emergency generator? ( ) Yes ( ) No

If an emergency generator, please give the number of hours of operation during the reporting year for each category of operation:

Emergency Use(hours)

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Non Emergency Use(hours)

Maintenance and Readiness Testing(hours)

CLEAVER BROOKS
b. Manufacturer

CB800-150
c. Model number

2.80
d. Max Input Rating MMBtu/hr (must be greater than 0)

1
e. Number of burners (enter "0" if not applicable)

f. Types of burner - check one:

- ○ rotary
- ◉ mech. atomizer
- ○ steam atomizer
- ○ air atomizer
- ○ traveling grate
- ○ hand fired
- ○ Other

Specify "other" burner type

CL BROOKS
g. Burner Manufacturer

CB800-150-150
h. Burner Model number

09/01/1986
i.Burner Installation Date (mm/dd/yyyy)

6. DEP approvals - leave blank if not applicable:

MBR-86-COM-027
a. Most recent approval number

09/11/1986
b. DEP approval date (mm/dd/yyyy)

7. Is this unit exempt under 310 CMR 7.02 Plan Approvals?

○ Yes ◉ No

8. If exempt from Plan Approval, indicate the reason for the exemption, from the drop-down list below. (e.g., cite a specific DEP regulation):

9. Additional State Reporting Requirements:

a. Are there other routine air quality reporting requirements for this emissions unit?

◉ Yes - Specify reporting frequency below ○ No - Skip to question 9c

b. Reporting frequency - check all that apply:

☐ Monthly ☐ Quarterly ☐ Semi-annual ☑ Annual ☑ RES

(include Operating Permit and Plan Approval reports, but not exceedance reporting)

c. Is this unit subject to (check all that apply):

☑ NESHAP ☐ NSPS ☐ MACT

10. Hours of operation for the emission unit:

☐ a. check if continuously operated - 24 X 7 X 52

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24
b. Number of hours per day

5
c. Number of days per week

15
d. Number of weeks per year

e. Percent of total annual operation that occurs in each calendar quarter:

57.0	33.0	0.0	10.0
Q1	Q2	Q3	Q4

Sum of Q1+Q2+Q3+Q4 must = 100%
or 0 if the unit was not operated for any quarter

11. Ozone season schedule - May 1 through September 30:

0
a. Ozone season hours per day

0
b. Ozone season days per week

0
c. Weeks operated in ozone season

12. Emission Release Point - select one:

Engines click here for instructions:

Non-Stack Release Points:
- ○ fugitive
- ○ horizontal vent
- ○ engine exhaust
- ○ downward facing vent
- ○ vertical stack/vent less than 10ft

Physical Stacks:
- ◉ vertical stack
- ○ vertical with rain cap/sleeve

13. Link this unit to a physical stack (if applicable) - pick from the list below:

3 1 STACK - BOILER #1-CLEAVER BROOKS, NO 2 FUEL OIL

Facility's stack identifier from STACK form - to change stack name use the STACK form
If the stack for this unit is not listed, save and exit this form now and complete a new Stack form before returning to this form.

14. Is there an air pollution control device/s on this emissions unit?

○ Yes - answer a through i ◉ No - skip to question 15

Air pollution control device

Click the button below to add a new control device

Add New control device

15. Is there **monitoring equipment** on this emissions unit or its related control devices:

○ Yes - answer a through l ◉ No - skip to section B

	Monitor 1	Monitor 2	Monitor 3
a. Monitor type:	○ CEMs ○ opacity ○ other	○ CEMs ○ opacity ○ other	○ CEMs ○ opacity ○ other
	Describe	Describe	Describe
b. Manufacturer:			
c. Model Number:			
d. Monitor ID #:			
	Facility's Designation	Facility's Designation	Facility's Designation

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e. Installation Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
f. DEP Approval #:			
g. DEP Approval Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
h. Decommission Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
i. Recorder?	yes no	yes no	yes no
j. Audible Alarm?	yes no	yes no	yes no
k. Data System?	yes no	yes no	yes no
l. Monitored Pollutants - check all that apply:	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other
	Describe	Describe	Describe

B. Fuels and Emissions

1. Fuel Name / Characteristics:

Number of fuels for this unit (previous records):

1

BOILER #1-CLEAVER BROOKS #2 OIL-0.3 PERCENT SULFU

Fuel Name

1

DEP Fuel #

Add a NEW fuel: Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package).

Number of Additional Fuels :

Delete this fuel: check box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle.

a. Source Classification Code (SCC):

10200501

SCC (call DEP if SCC will not validate)

EXTERNAL COMBUSTION BOILERS - INDUSTRIAL - DISTILLATE OIL -

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2018
Year of Record

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DEP EU#

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GRADES 1 AND 2 - BOILER

SCC Description - filled by eDEP upon error check.

b. Type of fuel: FUEL NO.2

Fuel Description - filled by eDEP upon error check.

c. Sulfur content for oils and coal (0-2.2%): .138

Percent by weight

d. Ash content for oils and coal(0- 10.0%): 0

Percent by weight

e. Maximum hourly fuel rate for all firing burners:(enter "0"if unit decommissioned prior to this year of record): 0.02 Amount; 1000 GALLONS Units per hour

f. Do you have fuel or usage restrictions? (•) yes ( ) no - skip to question 2

g. DEP approval number for fuel restrictions: MBR-95-RES-047

Most recent for this fuel

h. Annual usage restriction (for this fuel):(amount or hours) 376680 Quantity; GALLONS Units

i. Short term use restriction (for this fuel):(amount or hours) 31390 Quantity; GALLONS Units

Per (•) month ( ) week ( ) day ( ) hour

2. Total actual fuel used for year of record:
(check your amount vs units and enter "0" if not used in the year of record)

21.6400 a. Amount - year of record; 1000 GALLONS b. Units

8.3 1000 GALLONS

c. Total annual usage for prior year of record

3. Total emissions **for this fuel only** in tons per year:

Calculations: The form will automatically calculate the actual and potential emissions UNLESS you check a box to manually enter emissions for each specific pollutant. Click the "?" icon for information to help you decide how to use this feature:

Pollutant:	PM10-FIL(Report-ONLY filterable PM)	PM25-FIL(Report-ONLY filterable PM)	PM-CON	SO2
Actual for previous year:	0.0042 Tons	0.0010 Tons	Tons	0.0813 Tons
Actual for year of record:	0.0108 Tons	0.0027 Tons	Tons	0.2120 Tons
Potential emissions	0.0876 Tons	0.0219 Tons	Tons	1.7166 Tons
Emission Factor	1	0.25		142
in pounds per unit	1000 GALLONS	1000 GALLONS		1000 GALLONS
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed				

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emissions-annual:	Tons	Tons	Tons	Tons
Max allowed emissions-short term:	Tons	Tons	Tons	Tons
Short term Period				
Basis DEP Approval number or regulation:				

Pollutant:	PB	VOC	NH3	CO
Actual for previous year:	Tons	0.0008 Tons	Tons	0.0208 Tons
Actual for year of record:	Tons	0.0022 Tons	Tons	0.0541 Tons
Potential emissions	Tons	0.0175 Tons	Tons	0.4380 Tons
Emission Factor		0.20		5
in pounds per unit		1000 GALLONS		1000 GALLONS
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed emissions-annual:	Tons	Tons	Tons	Tons
Max allowed emissions-short term:	Tons	Tons	Tons	Tons
Short term Period				
Basis DEP Approval number or regulation:				

Pollutant:	NO2	specify other pollutant
Actual for previous year:	0.0996 Tons	Tons
Actual for year of record:	0.2597 Tons	Tons
Potential emissions	2.1024 Tons	Tons
Emission Factor	24	
in pounds per unit	1000 GALLONS	
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed emissions-annual:	Tons	Tons
Max allowed emissions-short term:	Tons	Tons
Short term Period		

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Basis DEP Approval number or regulation:		

4. Ozone season emissions - May 1 through September 30:

a. Typical day VOC emissions - pounds per day	b. Typical day NOx emissions - pounds per day
0	0
check to enter your own values	check to enter your own values

NOTE: The form will estimate the ozone season emissions for you. However, you may enter your own values by checking the boxes above.

C. Notes and Attachments

1. **Notes:** please include any additional information that will help DEP understand your submission.

2. **Attachments:**

Check here to submit attachments to this form (e.g., calculations) -add a note in the field above indicating what is attached. This will create a new step on your Transaction Overview Page where you will attach electronic files to your submittal. For attachments that cannot be sent electronically, please list all such attachments above and deliver them to DEP with a paper copy of this form.

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Facility AQ Identifier

A. Equipment Description

1. Faciltity Identifiers:

CLEAN HARBORS OF BRAINTREE INC
a. Facility Name

34839
b. DEP Account Number

1190564
c. Facility AQ Identifier

2. Emission Unit Identifiers:

CUMMINS GENERATOR #2 (NT855G2, DIESEL)
a. Facility's choice of emission unit name - edit as needed

50
b. Facility's emission unit number / code - edit as needed

50
c. DEP emission unit #

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

3. Emission unit installation and decommission dates:

08/01/1999
a.Installation Date - estimate if unknown (mm/dd/yyyy)

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

(•) No ( ) Yes - Enter DEP's emissions unit number and name for the unit being replaced from the drop-down list below:

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit type code: RECIPROCATING IC ENGINE

ENGINE

If engine, is this an emergency generator? ( ) Yes (•) No

If an emergency generator, please give the number of hours of operation during the reporting year for each category of operation:

Emergency Use(hours)

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Non Emergency Use(hours)

Maintenance and Readiness Testing(hours)

CUMMINS
b. Manufacturer

125-DGEA
c. Model number

1.6880
d. Max Input Rating MMBtu/hr (must be greater than 0)

e. Number of burners (enter “0” if not applicable)

f. Types of burner - check one:

- ○ rotary
- ◉ mech. atomizer
- ○ steam atomizer
- ○ air atomizer
- ○ traveling grate
- ○ hand fired
- ○ Other

Specify "other" burner type

g. Burner Manufacturer

h. Burner Model number

i.Burner Installation Date (mm/dd/yyyy)

6. DEP approvals - leave blank if not applicable:

EXEMPT
a. Most recent approval number

05/04/1989
b. DEP approval date (mm/dd/yyyy)

7. Is this unit exempt under 310 CMR 7.02 Plan Approvals?

◉ Yes ○ No

8. If exempt from Plan Approval, indicate the reason for the exemption, from the drop-down list below. (e.g., cite a specific DEP regulation):

below thresholds in 310 CMR 7.02 (2)(b) 7 and 15

9. Additional State Reporting Requirements:

a. Are there other routine air quality reporting requirements for this emissions unit?

◉ Yes - Specify reporting frequency below ○ No - Skip to question 9c

b. Reporting frequency - check all that apply:

☐ Monthly ☐ Quarterly ☐ Semi-annual ☑ Annual ☑ RES

(include Operating Permit and Plan Approval reports, but not exceedance reporting)

c. Is this unit subject to (check all that apply):

☐ NESHAP ☐ NSPS ☐ MACT

10. Hours of operation for the emission unit:

☐ a. check if continuously operated - 24 X 7 X 52

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1	1	12
b. Number of hours per day	c. Number of days per week	d. Number of weeks per year

e. Percent of total annual operation that occurs in each calendar quarter:

8.0	42.0	8.0	42.0
Q1	Q2	Q3	Q4

Sum of Q1+Q2+Q3+Q4 must = 100%
or 0 if the unit was not operated for any quarter

11. Ozone season schedule - May 1 through September 30:

3	1	5
a. Ozone season hours per day	b. Ozone season days per week	c. Weeks operated in ozone season

12. Emission Release Point - select one:

Engines click here for instructions:

Non-Stack Release Points:	Physical Stacks:
○ fugitive	● vertical stack
○ horizontal vent	○ vertical with rain cap/sleeve
○ engine exhaust	
○ downward facing vent	
○ vertical stack/vent less than 10ft	

13. Link this unit to a physical stack (if applicable) - pick from the list below:

7 1 STACK GENERATOR (2)- CUMMINS AND CATERPILLAR

Facility's stack identifier from STACK form - to change stack name use the STACK form
If the stack for this unit is not listed, save and exit this form now and complete a new Stack form before returning to this form.

14. Is there an air pollution control device/s on this emissions unit?

○ Yes - answer a through i ● No - skip to question 15

Air pollution control device

Click the button below to add a new control device

Add New control device

15. Is there **monitoring equipment** on this emissions unit or its related control devices:

○ Yes - answer a through l ● No - skip to section B

	Monitor 1	Monitor 2	Monitor 3
a. Monitor type:	○ CEMs ○ opacity ○ other	○ CEMs ○ opacity ○ other	○ CEMs ○ opacity ○ other
	Describe	Describe	Describe
b. Manufacturer:			
c. Model Number:			
d. Monitor ID #:			
	Facility's Designation	Facility's Designation	Facility's Designation

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e. Installation Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
f. DEP Approval #:			
g. DEP Approval Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
h. Decommission Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
i. Recorder?	yes no	yes no	yes no
j. Audible Alarm?	yes no	yes no	yes no
k. Data System?	yes no	yes no	yes no
l. Monitored Pollutants - check all that apply:	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other
	Describe	Describe	Describe

B. Fuels and Emissions

1. Fuel Name / Characteristics:

Number of fuels for this unit (previous records):

1

GENERATOR #2-CUMMINS #NT855G2- #2 OIL 0.3 PER.S

Fuel Name

1

DEP Fuel #

☐ Add a NEW fuel: Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package).

Number of Additional Fuels :

☐ Delete this fuel: check box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle.

a. Source Classification Code (SCC):

20200102

SCC (call DEP if SCC will not validate)

INTERNAL COMBUSTION ENGINES - INDUSTRIAL - DISTILLATE OIL

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(DIESEL) - RECIPROCATING

SCC Description - filled by eDEP upon error check.

b. Type of fuel: DIESEL

Fuel Description - filled by eDEP upon error check.

c. Sulfur content for oils and coal (0-2.2%): .138

Percent by weight

d. Ash content for oils and coal(0- 10.0%): 0

Percent by weight

e. Maximum hourly fuel rate for all firing burners:(enter "0"if unit decommissioned prior to this year of record): 0.0120 (Amount) 1000 GALLONS (Units per hour)

f. Do you have fuel or usage restrictions? (yes) ( ) no - skip to question 2

g. DEP approval number for fuel restrictions: EXEMPT 7.02

Most recent for this fuel

h. Annual usage restriction (for this fuel):(amount or hours) 300 (Quantity) EACH-YEAR (Units)

i. Short term use restriction (for this fuel):(amount or hours) 24 (Quantity) DAY (Units)

Per ( ) ( ) (•) ( ) month week day hour

2. Total actual fuel used for year of record:
(check your amount vs units and enter "0" if not used in the year of record)

.14 a. Amount - year of record; 1000 GALLONS b. Units

.18 1000 GALLONS

c. Total annual usage for prior year of record

3. Total emissions **for this fuel only** in tons per year:

Calculations: The form will automatically calculate the actual and potential emissions UNLESS you check a box to manually enter emissions for each specific pollutant. Click the "?" icon for information to help you decide how to use this feature:

Pollutant:	☐ PM10-FIL(Report-ONLY filterable PM)	☐ PM25-FIL(Report-ONLY filterable PM)	☐ PM-CON	☐ SO2
Actual for previous year:	0.0038 Tons	0.0038 Tons	Tons	0.0036 Tons
Actual for year of record:	0.0030 Tons	0.0030 Tons	Tons	0.0028 Tons
Potential emissions	2.2338 Tons	2.2338 Tons	Tons	2.0866 Tons
Emission Factor	42.50	42.50		39.70
in pounds per unit	1000 GALLONS	1000 GALLONS		1000 GALLONS
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed				

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emissions-annual:	Tons	Tons	Tons	Tons
Max allowed emissions-short term:	Tons	Tons	Tons	Tons
Short term Period				
Basis DEP Approval number or regulation:				

Pollutant:	PB	VOC	NH3	CO
Actual for previous year:	Tons	0.0044 Tons	Tons	0.0117 Tons
Actual for year of record:	Tons	0.0035 Tons	Tons	0.0091 Tons
Potential emissions	Tons	2.5912 Tons	Tons	6.8328 Tons
Emission Factor		49.30		130
in pounds per unit		1000 GALLONS		1000 GALLONS
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed emissions-annual:	Tons	Tons	Tons	Tons
Max allowed emissions-short term:	Tons	Tons	Tons	Tons
Short term Period				
Basis DEP Approval number or regulation:				

Pollutant:	NO2	specify other pollutant
Actual for previous year:	0.0544 Tons	Tons
Actual for year of record:	0.0423 Tons	Tons
Potential emissions	31.7462 Tons	Tons
Emission Factor	604	
in pounds per unit	1000 GALLONS	
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed emissions-annual:	Tons	Tons
Max allowed emissions-short term:	Tons	Tons
Short term Period		

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Basis DEP Approval number or regulation:		

4. Ozone season emissions - May 1 through September 30:

a. Typical day VOC emissions - pounds per day	b. Typical day NOx emissions - pounds per day
0.5001	6.0438
☐ check to enter your own values	☐ check to enter your own values

NOTE: The form will estimate the ozone season emissions for you. However, you may enter your own values by checking the boxes above.

C. Notes and Attachments

1. **Notes:** please include any additional information that will help DEP understand your submission.

2. **Attachments:**

☐ Check here to submit attachments to this form (e.g., calculations) -add a note in the field above indicating what is attached. This will create a new step on your Transaction Overview Page where you will attach electronic files to your submittal. For attachments that cannot be sent electronically, please list all such attachments above and deliver them to DEP with a paper copy of this form.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste

Fuel Burning Device

Emission Unit

2018
Year of Record

55
DEP EU#

1190564
Facility AQ Identifier

A. Equipment Description

1. Faciltity Identifiers:

CLEAN HARBORS OF BRAINTREE INC
a. Facility Name

34839
b. DEP Account Number

1190564
c. Facility AQ Identifier

2. Emission Unit Identifiers:

CATERPILLAR GENERATOR #1
a. Facility's choice of emission unit name - edit as needed

55
b. Facility's emission unit number / code - edit as needed

55
c. DEP emission unit #

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

3. Emission unit installation and decommission dates:

05/04/1989
a.Installation Date - estimate if unknown (mm/dd/yyyy)

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

(•) No ( ) Yes - Enter DEP's emissions unit number and name for the unit being replaced from the drop-down list below:

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit type code: RECIPROCATING IC ENGINE

ENGINE

If engine, is this an emergency generator? ( ) Yes (•) No

If an emergency generator, please give the number of hours of operation during the reporting year for each category of operation:

Emergency Use(hours)

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Non Emergency Use(hours)

Maintenance and Readiness Testing(hours)

CATERPILLAR	3412DIT
b. Manufacturer	c. Model number

5.3480	1
d. Max Input Rating MMBtu/hr (must be greater than 0)	e. Number of burners (enter “0” if not applicable)

f. Types of burner - check one:

- ○ rotary
- ◉ mech. atomizer
- ○ steam atomizer
- ○ air atomizer
- ○ traveling grate
- ○ hand fired
- ○ Other

Specify "other" burner type

CATERPILLR	N/A
g. Burner Manufacturer	h. Burner Model number

06/01/1989
i.Burner Installation Date (mm/dd/yyyy)

6. DEP approvals - leave blank if not applicable:

MBR-89-COM-31	05/04/1989
a. Most recent approval number	b. DEP approval date (mm/dd/yyyy)

7. Is this unit exempt under 310 CMR 7.02 Plan Approvals?

○ Yes ◉ No

8. If exempt from Plan Approval, indicate the reason for the exemption, from the drop-down list below. (e.g., cite a specific DEP regulation):

9. Additional State Reporting Requirements:

a. Are there other routine air quality reporting requirements for this emissions unit?

◉ Yes - Specify reporting frequency below ○ No - Skip to question 9c

b. Reporting frequency - check all that apply:

☐ Monthly ☐ Quarterly ☐ Semi-annual ☑ Annual ☑ RES

(include Operating Permit and Plan Approval reports, but not exceedance reporting)

c. Is this unit subject to (check all that apply):

☐ NESHAP ☐ NSPS ☐ MACT

10. Hours of operation for the emission unit: ☐ a. check if continuously operated - 24 X 7 X 52

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1	1	11
b. Number of hours per day	c. Number of days per week	d. Number of weeks per year

e. Percent of total annual operation that occurs in each calendar quarter:

17.0	25.0	33.0	25.0
Q1	Q2	Q3	Q4

Sum of Q1+Q2+Q3+Q4 must = 100%
or 0 if the unit was not operated for any quarter

11. Ozone season schedule - May 1 through September 30:

3	1	6
a. Ozone season hours per day	b. Ozone season days per week	c. Weeks operated in ozone season

12. Emission Release Point - select one:

Engines click here for instructions:

Non-Stack Release Points:	Physical Stacks:
○ fugitive	● vertical stack
○ horizontal vent	○ vertical with rain cap/sleeve
○ engine exhaust	
○ downward facing vent	
○ vertical stack/vent less than 10ft	

13. Link this unit to a physical stack (if applicable) - pick from the list below:

7 1 STACK GENERATOR (2)- CUMMINS AND CATERPILLAR

Facility's stack identifier from STACK form - to change stack name use the STACK form
If the stack for this unit is not listed, save and exit this form now and complete a new Stack form before returning to this form.

14. Is there an air pollution control device/s on this emissions unit?

○ Yes - answer a through i ● No - skip to question 15

Air pollution control device

Click the button below to add a new control device

Add New control device

15. Is there **monitoring equipment** on this emissions unit or its related control devices:

○ Yes - answer a through l ● No - skip to section B

	Monitor 1	Monitor 2	Monitor 3
a. Monitor type:	○ CEMs ○ opacity ○ other	○ CEMs ○ opacity ○ other	○ CEMs ○ opacity ○ other
	Describe	Describe	Describe
b. Manufacturer:			
c. Model Number:			
d. Monitor ID #:			
	Facility's Designation	Facility's Designation	Facility's Designation

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e. Installation Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
f. DEP Approval #:			
g. DEP Approval Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
h. Decommission Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
i. Recorder?	yes no	yes no	yes no
j. Audible Alarm?	yes no	yes no	yes no
k. Data System?	yes no	yes no	yes no
l. Monitored Pollutants - check all that apply:	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other
	Describe	Describe	Describe

B. Fuels and Emissions

1. Fuel Name / Characteristics:

Number of fuels for this unit (previous records):

1

GENERATOR #1-CATERPILLAR 558.5 KW #2 OIL-0.3 S

Fuel Name

1

DEP Fuel #

☐ Add a NEW fuel: Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package).

Number of Additional Fuels :

☐ Delete this fuel: check box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle.

a. Source Classification Code (SCC):

20200102

SCC (call DEP if SCC will not validate)

INTERNAL COMBUSTION ENGINES - INDUSTRIAL - DISTILLATE OIL

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(DIESEL) - RECIPROCATING

SCC Description - filled by eDEP upon error check.

b. Type of fuel: DIESEL

Fuel Description - filled by eDEP upon error check.

c. Sulfur content for oils and coal (0-2.2%): .0401

Percent by weight

d. Ash content for oils and coal(0- 10.0%): 0

Percent by weight

e. Maximum hourly fuel rate for all firing burners:(enter "0"if unit decommissioned prior to this year of record): 0.0380 (Amount) 1000 GALLONS (Units per hour)

f. Do you have fuel or usage restrictions? (yes) (no - skip to question 2)

g. DEP approval number for fuel restrictions: MBR-89-COM-31

Most recent for this fuel

h. Annual usage restriction (for this fuel):(amount or hours) 300 (Quantity) EACH-YEAR (Units)

i. Short term use restriction (for this fuel):(amount or hours) 24 (Quantity) DAY (Units)

Per (month) (week) (day) (hour)

2. Total actual fuel used for year of record:
(check your amount vs units and enter "0" if not used in the year of record)

0.4560 (a. Amount - year of record) 1000 GALLONS (b. Units)

.114 1000 GALLONS

c. Total annual usage for prior year of record

3. Total emissions **for this fuel only** in tons per year:

Calculations: The form will automatically calculate the actual and potential emissions UNLESS you check a box to manually enter emissions for each specific pollutant. Click the "?" icon for information to help you decide how to use this feature:

Pollutant:	PM10-FIL(Report-ONLY filterable PM)	PM25-FIL(Report-ONLY filterable PM)	PM-CON	SO2
Actual for previous year:	0.0024 Tons	0.0024 Tons	Tons	0.0023 Tons
Actual for year of record:	0.0097 Tons	0.0097 Tons	Tons	0.0091 Tons
Potential emissions	7.0737 Tons	7.0737 Tons	Tons	6.6077 Tons
Emission Factor	42.50	42.50		39.70
in pounds per unit	1000 GALLONS	1000 GALLONS		1000 GALLONS
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed				

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emissions-annual:	Tons	Tons	Tons	Tons
Max allowed emissions-short term:	Tons	Tons	Tons	Tons
Short term Period				
Basis DEP Approval number or regulation:				

Pollutant:	PB	VOC	NH3	CO
Actual for previous year:	Tons	0.0028 Tons	Tons	0.0074 Tons
Actual for year of record:	Tons	0.0112 Tons	Tons	0.0296 Tons
Potential emissions	Tons	8.2055 Tons	Tons	21.6372 Tons
Emission Factor		49.30		130
in pounds per unit		1000 GALLONS		1000 GALLONS
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed emissions-annual:	Tons	Tons	Tons	Tons
Max allowed emissions-short term:	Tons	Tons	Tons	Tons
Short term Period				
Basis DEP Approval number or regulation:				

Pollutant:	NO2	specify other pollutant
Actual for previous year:	0.0344 Tons	Tons
Actual for year of record:	0.1377 Tons	Tons
Potential emissions	100.5298 Tons	Tons
Emission Factor	604	
in pounds per unit	1000 GALLONS	
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed emissions-annual:	Tons	Tons
Max allowed emissions-short term:	Tons	Tons
Short term Period		

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Basis DEP Approval number or regulation:		

4. Ozone season emissions - May 1 through September 30:

a. Typical day VOC emissions - pounds per day	b. Typical day NOx emissions - pounds per day
1.8480	22.7205
☐ check to enter your own values	☐ check to enter your own values

NOTE: The form will estimate the ozone season emissions for you. However, you may enter your own values by checking the boxes above.

C. Notes and Attachments

1. **Notes:** please include any additional information that will help DEP understand your submission.

2. **Attachments:**

☐ Check here to submit attachments to this form (e.g., calculations) -add a note in the field above indicating what is attached. This will create a new step on your Transaction Overview Page where you will attach electronic files to your submittal. For attachments that cannot be sent electronically, please list all such attachments above and deliver them to DEP with a paper copy of this form.

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Fuel Burning Device

Emission Unit

2018
Year of Record

64
DEP EU#

1190564
Facility AQ Identifier

A. Equipment Description

1. Faciltity Identifiers:

CLEAN HARBORS OF BRAINTREE INC
a. Facility Name

34839
b. DEP Account Number

1190564
c. Facility AQ Identifier

2. Emission Unit Identifiers:

2 LENNOX FURNACES SR 20Q5-140/154
a. Facility's choice of emission unit name - edit as needed

64
b. Facility's emission unit number / code - edit as needed

64
c. DEP emission unit #

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

3. Emission unit installation and decommission dates:

06/01/1994
a.Installation Date - estimate if unknown (mm/dd/yyyy)

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

(•) No ( ) Yes - Enter DEP's emissions unit number and name for the unit being replaced from the drop-down list below:

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit type code: FURNACE

FURNACE

If engine, is this an emergency generator? ( ) Yes ( ) No

If an emergency generator, please give the number of hours of operation during the reporting year for each category of operation:

Emergency Use(hours)

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Non Emergency Use(hours)

Maintenance and Readiness Testing(hours)

LENNOX
b. Manufacturer

SR20Q5-140
c. Model number

0.3070
d. Max Input Rating MMBtu/hr (must be greater than 0)

1
e. Number of burners (enter "0" if not applicable)

f. Types of burner - check one:

- rotary
- mech. atomizer
- steam atomizer
- air atomizer
- traveling grate
- hand fired
- Other

Specify "other" burner type

BECKETT
g. Burner Manufacturer

AFG
h. Burner Model number

06/01/1995
i.Burner Installation Date (mm/dd/yyyy)

6. DEP approvals - leave blank if not applicable:

a. Most recent approval number

b. DEP approval date (mm/dd/yyyy)

7. Is this unit exempt under 310 CMR 7.02 Plan Approvals?

Yes No

8. If exempt from Plan Approval, indicate the reason for the exemption, from the drop-down list below. (e.g., cite a specific DEP regulation):

below thresholds in 310 CMR 7.02 (2)(b) 7 and 15

9. Additional State Reporting Requirements:

a. Are there other routine air quality reporting requirements for this emissions unit?

Yes - Specify reporting frequency below No - Skip to question 9c

b. Reporting frequency - check all that apply:

Monthly Quarterly Semi-annual Annual RES

(include Operating Permit and Plan Approval reports, but not exceedance reporting)

c. Is this unit subject to (check all that apply):

NESHAP NSPS MACT

10. Hours of operation for the emission unit:

a. check if continuously operated - 24 X 7 X 52

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0
b. Number of hours per day

0
c. Number of days per week

0
d. Number of weeks per year

e. Percent of total annual operation that occurs in each calendar quarter:

0.0	0.0	0.0	0.0
Q1	Q2	Q3	Q4

Sum of Q1+Q2+Q3+Q4 must = 100%
or 0 if the unit was not operated for any quarter

11. Ozone season schedule - May 1 through September 30:

0
a. Ozone season hours per day

0
b. Ozone season days per week

0
c. Weeks operated in ozone season

12. Emission Release Point - select one:

Engines click here for instructions:

Non-Stack Release Points:
- ○ fugitive
- ○ horizontal vent
- ○ engine exhaust
- ○ downward facing vent
- ○ vertical stack/vent less than 10ft

Physical Stacks:
- ◉ vertical stack
- ○ vertical with rain cap/sleeve

13. Link this unit to a physical stack (if applicable) - pick from the list below:

9 1 STACK-2 FURNACES - LENNOX

Facility's stack identifier from STACK form - to change stack name use the STACK form
If the stack for this unit is not listed, save and exit this form now and complete a new Stack form before returning to this form.

14. Is there an air pollution control device/s on this emissions unit?

○ Yes - answer a through i ◉ No - skip to question 15

Air pollution control device

Click the button below to add a new control device

Add New control device

15. Is there **monitoring equipment** on this emissions unit or its related control devices:

○ Yes - answer a through l ◉ No - skip to section B

	Monitor 1	Monitor 2	Monitor 3
a. Monitor type:	○ CEMs ○ opacity ○ other	○ CEMs ○ opacity ○ other	○ CEMs ○ opacity ○ other
	Describe	Describe	Describe
b. Manufacturer:			
c. Model Number:			
d. Monitor ID #:			
	Facility's Designation	Facility's Designation	Facility's Designation

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e. Installation Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
f. DEP Approval #:			
g. DEP Approval Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
h. Decommission Date:	(mm/dd/yyyy)	(mm/dd/yyyy)	(mm/dd/yyyy)
i. Recorder?	yes no	yes no	yes no
j. Audible Alarm?	yes no	yes no	yes no
k. Data System?	yes no	yes no	yes no
l. Monitored Pollutants - check all that apply:	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other	PM 10 PM 2.5 SO2 CO VOC NO2 NH3 Mercury Oxygen CO2 H2S HCL Opacity Other
	Describe	Describe	Describe

B. Fuels and Emissions

1. Fuel Name / Characteristics:

Number of fuels for this unit (previous records):

1

FURNACES #1(2)-LENNOX SR 20Q5 #2 OIL-0.3 SULPHUR

Fuel Name

1

DEP Fuel #

Add a NEW fuel: Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package).

Number of Additional Fuels :

Delete this fuel: check box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle.

a. Source Classification Code (SCC):

10500105

SCC (call DEP if SCC will not validate)

EXTERNAL COMBUSTION - SPACE HEATERS - INDUSTRIAL -

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DISTILLATE OIL

SCC Description - filled by eDEP upon error check.

b. Type of fuel: FUEL NO.2

Fuel Description - filled by eDEP upon error check.

c. Sulfur content for oils and coal (0-2.2%): .138

Percent by weight

d. Ash content for oils and coal(0- 10.0%): 0

Percent by weight

e. Maximum hourly fuel rate for all firing burners:(enter "0"if unit decommissioned prior to this year of record): 0.0022 Amount; 1000 GALLONS Units per hour

f. Do you have fuel or usage restrictions? (yes) (no - skip to question 2)

g. DEP approval number for fuel restrictions: EXEMPT

Most recent for this fuel

h. Annual usage restriction (for this fuel):(amount or hours) 19.2720 Quantity; 1000 GALLONS Units

i. Short term use restriction (for this fuel):(amount or hours) 0.0022 Quantity; 1000 GALLONS Units; Per (month) (week) (day) (hour)

2. Total actual fuel used for year of record:
(check your amount vs units and enter "0" if not used in the year of record)

0 a. Amount - year of record; 1000 GALLONS b. Units

0 1000 GALLONS

c. Total annual usage for prior year of record

3. Total emissions **for this fuel only** in tons per year:

Calculations: The form will automatically calculate the actual and potential emissions UNLESS you check a box to manually enter emissions for each specific pollutant. Click the "?" icon for information to help you decide how to use this feature:

Pollutant:	PM10-FIL(Report-ONLY filterable PM)	PM25-FIL(Report-ONLY filterable PM)	PM-CON	SO2
Actual for previous year:	0 Tons	0 Tons	Tons	0 Tons
Actual for year of record:	0 Tons	0 Tons	Tons	0 Tons
Potential emissions	0.0237 Tons	0.0059 Tons	Tons	0.1910 Tons
Emission Factor	2.46	0.6150		143.60
in pounds per unit	1000 GALLONS	1000 GALLONS		1000 GALLONS
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed				

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emissions-annual:	Tons	Tons	Tons	Tons
Max allowed emissions-short term:	Tons	Tons	Tons	Tons
Short term Period				
Basis DEP Approval number or regulation:				

Pollutant:	PB	VOC	NH3	CO
Actual for previous year:	Tons	0 Tons	Tons	0 Tons
Actual for year of record:	Tons	0 Tons	Tons	0 Tons
Potential emissions	Tons	0.0073 Tons	Tons	0.0482 Tons
Emission Factor		0.76		5
in pounds per unit		1000 GALLONS		1000 GALLONS
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed emissions-annual:	Tons	Tons	Tons	Tons
Max allowed emissions-short term:	Tons	Tons	Tons	Tons
Short term Period				
Basis DEP Approval number or regulation:				

Pollutant:	NO2	specify other pollutant
Actual for previous year:	0 Tons	Tons
Actual for year of record:	0 Tons	Tons
Potential emissions	0.1927 Tons	Tons
Emission Factor	20	
in pounds per unit	1000 GALLONS	
Calculation Method	USEPA Emission Factor (	USEPA Emission Factor (
Max allowed emissions-annual:	Tons	Tons
Max allowed emissions-short term:	Tons	Tons
Short term Period		

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Basis DEP Approval number or regulation:		

4. Ozone season emissions - May 1 through September 30:

a. Typical day VOC emissions - pounds per day	b. Typical day NOx emissions - pounds per day
0	0
check to enter your own values	check to enter your own values

NOTE: The form will estimate the ozone season emissions for you. However, you may enter your own values by checking the boxes above.

C. Notes and Attachments

1. **Notes:** please include any additional information that will help DEP understand your submission.

THIS UNIT WAS NOT USED IN CALENDAR YEAR 2018

2. **Attachments:**

Check here to submit attachments to this form (e.g., calculations) -add a note in the field above indicating what is attached. This will create a new step on your Transaction Overview Page where you will attach electronic files to your submittal. For attachments that cannot be sent electronically, please list all such attachments above and deliver them to DEP with a paper copy of this form.