

PINELANDS REGIONAL HIGH SCHOOL (78210)
GEN090001

Date: 11/27/2017

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E1	HS Boiler#1	8.4 MMBTU/Hr Boiler	Boiler		1/2/1979			
E2	HS Boiler#2	8.4 MMBTU/Hr Boiler	Boiler		1/2/1979			

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New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): PINELANDS REGIONAL HIGH SCHOOL

Facility ID (AIMS): 78210

Street 520 NUGENTOWN RD
Address: Tuckerton , NJ 08087

Mailing PO BOX 248
Address: Tuckerton , NJ 08087-0248

County: Ocean
Location
Description:

State Plane Coordinates:

X-Coordinate:

Y-Coordinate:

Units:

Datum:

Source Org.:

Source Type:

Industry:

Primary SIC:

Secondary SIC:

NAICS: 611110

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Air Permit Information Contact

Organization: Pinelands Regional School District

Org. Type: Other

Name: Tom Rider

NJ EIN:

Title: Bldg/Grounds Supervisor

Phone: (609) 296-3106 x

Mailing Address: 590 Nugentown Road
Little Egg Harbor , NJ 08087

Fax: () - x

Other: () - x

Type:

Email: ddriscoll@prsdnj.org

Contact Type: Fees/Billing Contact

Organization: Pinelands Regional School District

Org. Type: Other

Name: Darlene V. Driscoll

NJ EIN:

Title: Bldg/Grds/Custodial Secretary

Phone: (609) 296-3106 x

Mailing Address: 590 Nugentown Road
Little Egg Harbor , NJ 08087

Fax: () - x

Other: () - x

Type:

Email: ddriscoll@prsdnj.org

Contact Type: General Contact

Organization: Pinelands Regional School District

Org. Type: Other

Name: Tom Rider

NJ EIN:

Title: Bldg/Grds Supervisor

Phone: () - x

Mailing Address: 520 Nugentown Rd
Little Egg Harbor , NJ 08087

Fax: () - x

Other: () - x

Type:

Email: ddriscoll@prsdnj.org

PINELANDS REGIONAL HIGH SCHOOL (78210)
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Date: 11/27/2017

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Responsible Official

Organization: Pinelands Regional School District

Org. Type: Other

Name: Darlene V. Driscoll

NJ EIN:

Title: Bldging/Grds/Custodial Secretary

Phone: (609) 296-3106 x

Mailing Address: 590 Nugentown Road
Little Egg Harbor , NJ 08087

Fax: () - x

Other: () - x

Type:

Email: ddriscoll@prsdnj.org

**New Jersey Department of Environmental Protection
Facility Profile (Permitting)**

PINELANDS REGIONAL HIGH SCHOOL (78210)
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Date: 11/27/2017

New Jersey Department of Environmental Protection
Insignificant Source Emissions

PINELANDS REGIONAL HIGH SCHOOL (78210)
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Date: 11/27/201

New Jersey Department of Environmental Protection
Reason for Application

PINELANDS REGIONAL HIGH SCHOOL (78210)
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New Jersey Department of Environmental Protection
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand- Fathered	Last Mod. (Since 1968)	CD Set ID
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New Jersey Department of Environmental Protection
Non-Source Fugitive Emissions

PINELANDS REGIONAL HIGH SCHOOL (78210)
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Date: 11/27/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 5 High School (BH18-A3)Boilers/Heaters

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	High School	8.4 MMBTU/Hr Boiler	Normal - Steady State	E000001		PT000005								
OS2	High School	8.4 MMBTU/Hr Boiler	Normal - Steady State	E000002		PT000006								

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New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: U5 High School

Operating Scenario: OS0 Summary

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO				7.21000000	tons/yr	No
NOx (Total)				12.98000000	tons/yr	No
SO2				18.43000000	tons/yr	No
TSP				2.14000000	tons/yr	No
VOC (Total)				0.47000000	tons/yr	No

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U5 (BH18-A3)Boilers/Heaters

OS Summary

Operating Scenario:

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	For Options B or C Only: Compliance with the annual emission limit for each air contaminant shall be based on the annual fuel consumption. Permittee shall comply with a self-imposed fuel limit. [N.J.A.C. 7:27- 8.13(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). The Permittee shall install and operate a fuel totalizer(s) to monitor the total amount of fuel burned each 12 consecutive month period, based on a rolling 1-month basis. [N.J.A.C. 7:27- 8.13(d)]	Each month the Permittee shall record: 1. Fuel type; 2. Current reading from the fuel totalizer; 3. Monthly fuel usage; 4. Sum and record the current monthly fuel usage with the previous eleven (11) months fuel usage totals to determine the consecutive twelve (12) months total. Records shall be made readily accessible for the Department's inspection in either a logbook or computer data system for a minimum of 5 years. Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27- 8.13(d)]	The Permittee shall notify the Department of any non-compliance with their self-imposed fuel limit within 24 hours of discovery by calling the Environmental Action Hotline at (877) 927-6337. Notify by phone: Upon occurrence of event. [N.J.A.C. 7:27- 8.13(d)]
2	In addition to this Compliance Plan, all conditions contained in the document "General Procedures for General Permits" shall also be subject to enforcement. [N.J.A.C. 7:27- 8.13(h)]	None.	None.	None.
3	The Permittee shall ensure combustion equipment included in this General Permit is easily identifiable by clear and conspicuous labeling, including manufacturer name, model number, serial number, and burner maximum rated heat input. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.
4	The Permittee shall not use the equipment in a manner which will cause visible emissions exclusive of visible condensed water vapor, except for a period no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 3.2]	None.	None.	If visible emissions are observed, refer to operator manual for corrective action. If measures fail to correct visible emissions within 24 hours of observation, the Permittee shall immediately report the incident to the Department by calling the Environmental Action Hotline at (877) 927-6337. Repair equipment: Upon occurrence of event. [N.J.A.C. 7:27- 8.13(d)4]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	This equipment shall not cause any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property, except in areas over which the owner or operator has exclusive use or occupancy. [N.J.A.C. 7:27- 5]	None.	None.	Any operation of the equipment which may cause a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare, or the environment or which might reasonably result in citizen complaints shall be reported by the Permittee as required by the Air Pollution Control Act. The Permittee shall immediately notify the Department of any non-compliance by calling the Environmental Action Hotline at (877) 927-6337. Notify by phone: Upon occurrence of event. [N.J.S.A. 26:2C-19(e)]
6	Each facility may possess only one GP-018 at any time. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.
7	The maximum allowable sulfur content in No. 2 fuel oil* or B5 Biodiesel or kerosene shall be less than or equal to 0.2 percent by weight. *Note: No.2 fuel oil can be a blend of up to 5% by volume bioadditives. [N.J.A.C. 7:27- 8.13(a)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each fuel oil delivery received, the Permittee shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content is not being exceeded. Such written documentation can include but is not limited to: Bill of Lading, Delivery Invoice, Certificate of Analysis, etc. [N.J.A.C. 7:27- 8.13(a)]	Recordkeeping by invoices / bills of lading / certificate of analysis once initially and per change of material or fuel supplier. The Permittee shall keep records of fuel oil sulfur content. All records shall be maintained on site for a minimum of 5 years and shall be made readily available upon the Department's request. [N.J.A.C. 7:27- 8.13(d)3]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The Permittee shall ensure each boiler and indirect fired process heater included in this General Permit shall adjust the combustion process annually. All subsequent Adjustments shall be conducted once each calendar year, in the same quarter as the First Adjustment. The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16 and the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005. [N.J.A.C. 7:27-19.7(g)]	Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005 and the procedure set forth at N.J.A.C. 7:27-19.16(a) as follows: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx, CO and O2 in ppmvd, before and after the adjustment is made; and 6. Convert the emission values of NOx, CO and O2 concentrations measured in lb/MMBTU according to the following formula: $Lb/MMBTU = ppmvd * MW * F$ dry factor * O2 correction factor/387,000,000, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Fuel Oil = 9,190 dscf/MMBTU; O2 correction factor: $(20.9\%)/(20.9\% - O2 \text{ measured})$, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment of the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person whom made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment. The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]	Submit a report: As per the approved schedule. Beginning in 2012, the owner or operator shall submit an annual adjustment combustion process report electronically to the Department within 45 days after each adjustment of the combustion process is completed. The report shall be in the format the Department specifies at its website http://www.nj.gov/dep/aqpp/adjustment.htm and shall contain the following information: 1. The concentration of NOx and CO in the effluent stream in ppmvd, and O2, in percent dry basis, measured before and after the adjustment of the combustion process; 2. The converted emission values in lb/MMBTU for the measurements taken before and after the adjustment of the combustion process; 3. A description of any corrective action taken as part of the combustion adjustment; and 4. The type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-19.16(c)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment. The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)]	None.
10	For Option A Only: Compliance with the annual emission limit for each air contaminant shall be based on operation of the unit(s) at a maximum of 8760 hours per year for the size(s) registered. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.

Compliance Schedule

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Section B**POLLUTANT EMISSIONS SUMMARY**

The following table indicates the facility's Potential to Emit (PTE) emission summary:

Source Categories	Facility total Potential to Emit (tons per year)								
	Primary						Secondary		
	VOC (Total)	NOx	CO	SO2	TSP	Other (Total)	PM-10	Pb	HAPs (Total)
Emission Unit Summary	0.4700	12.9800	7.2100	18.4300	2.1400				
Batch Process Summary									
Insignificant Source Worksheet									
Non-Source Fugitive Emission Worksheet									
Intra Facility Emissions Trading Worksheet									
Total Emissions	0.4700	12.9800	7.2100	18.4300	2.1400	0.0000	0.0000	0.0000	0.0000

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New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT5	Stack	0												
PT6	Stack	1												

Compliance Schedule