



Particulate emissions generated from the carbon regeneration furnace may consist of hazardous metals including hexavalent chromium, mercury and lead and are assigned an 'A' environmental rating. In accordance with 6NYCRR, Part 212.4(a) and Table 2 of 6NYCRR, Part 212.9 a minimum overall control efficiency of 99% will be required for particulate matter. A stack test is required to determine the overall efficiency of the scrubber system.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: DOUGLAS E BORSCHER
 270 MICHIGAN AVE
 BUFFALO, NY 14203-2999

Authorized Signature: _____ Date: ___ / ___ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
- Applications for permit renewals, modifications and transfers
- Permit modifications, suspensions or revocations by the Department

Facility Level

- Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS



DEC GENERAL CONDITIONS
****** General Provisions ******
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations

Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 3.3:

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.



Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 5: Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 9 Headquarters
Division of Environmental Permits
270 Michigan Avenue
Buffalo, NY 14203-2915
(716) 851-7165

New York State Department of Environmental Conservation

Permit ID: 9-2912-00027/02001

Facility DEC ID: 9291200027



Permit Under the Environmental Conservation Law (ECL)

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY
PERMIT**

IDENTIFICATION INFORMATION

Permit Issued To: CALGON CARBON CORPORATION
500 CALGON CARBON DR
PITTSBURGH, PA 15205

Facility: NORTH TONAWANDA STP
830 RIVER RD
NORTH TONAWANDA, NY 14120

Authorized Activity By Standard Industrial Classification Code:
4952 - SEWERAGE SYSTEMS

Permit Effective Date: 07/30/2010
date.

Permit Expiration Date: No expiration



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Emission Unit Level

EU=1-CARBR

1 6 NYCRR 212.6 (a): Compliance Demonstration

EU=1-CARBR,EP=00001,Proc=01A

- 2 6 NYCRR 212.4 (a): Compliance Demonstration
- 3 6 NYCRR 212.4 (a): Compliance Demonstration
- 4 6 NYCRR 212.4 (a): Compliance Demonstration
- 5 6 NYCRR 212.4 (a): Compliance Demonstration
- 6 6 NYCRR 212.11 (a): Compliance Demonstration

EU=1-CARBR,EP=00003,Proc=01B

7 6 NYCRR 212.4 (c): Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 8 ECL 19-0301: Contaminant List
- 9 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 10 6 NYCRR Subpart 201-5: Emission Unit Definition
- 11 6 NYCRR Subpart 201-5: Compliance Demonstration
- 12 6 NYCRR 211.2: Air pollution prohibited
- 13 6 NYCRR 211.2: Compliance Demonstration

Emission Unit Level

- 14 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 15 6 NYCRR Subpart 201-5: Process Definition By Emission Unit



FEDERALLY ENFORCEABLE CONDITIONS
****** Emission Unit Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications,



required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Item E: Emergency Defense - 6 NYCRR 201-1.5

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated;
- (3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of proof.



(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

Item F: Recycling and Salvage - 6 NYCRR 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item H: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item I: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item J: Required Emission Tests - 6 NYCRR 202-1.1



An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item K: Visible Emissions Limited - 6 NYCRR 211.3

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Item L: Open Fires Prohibitions - 6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item M: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item N: Federally Enforceable Requirements - 40 CFR 70.6 (b)

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state



regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Compliance Demonstration
Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.6 (a)

Item 1.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR

Item 1.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. Compliance with this requirement shall be determined by the facility owner/operator conducting a daily survey of visible emissions when the process is in operation. If any visible emissions are identified, corrective action is required. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 2: Compliance Demonstration
Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.4 (a)

Item 2.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR

Emission Point: 00001

New York State Department of Environmental Conservation

Permit ID: 9-2912-00027/02001

Facility DEC ID: 9291200027



Process: 01A

Item 2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The temperature of the furnace shall operate at a minimum of 1300 degrees F. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the regeneration furnace. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations.

The temperature recorder shall be calibrated or serviced or replaced, as needed, at a minimum of twice per year.

A record shall be maintained of the date of calibration and any maintenance of the temperature recorder.

These records are to be kept on-site for five years and shall be made available to any Department representative for review during normal business hours.

An annual deviation report is to be submitted no later than January 31 for the previous reporting year. The report is to identify exceptions to the monitoring requirements for carbon feed rate, pH, pressure drop, temperature, scrubber flow and waste stream. If no deviations from normal operating parameter ranges are found, a report shall be submitted stating so.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1300 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE AT ANY TIME

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 3: Compliance Demonstration
Effective between the dates of 07/30/2010 and Permit Expiration Date



Applicable Federal Requirement:6 NYCRR 212.4 (a)

Item 3.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR Emission Point: 00001
Process: 01A

Item 3.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The maximum feed rate of carbon through the regeneration furnace shall not exceed 2800 pounds per hour (wet basis). The furnace shall not process any raw material which contains chlorinated dioxins, dibenzofurans, or acrylonitrile. No hazardous waste as defined by 6NYCRR, Part 373 may be handled or processed at this facility.

The permittee shall keep on-site records of the amount of carbon treated and a representative analysis of incoming spent carbon received which demonstrates the characteristics of the waste carbon to be processed. Any exceptions shall be reported to this Department in the annual deviation report.

These records are to be kept on-site for five years and shall be made available to any Department representative for review during normal business hours.

An annual deviation report is to be submitted no later than January 31 for the previous reporting year. The report is to identify exceptions to the monitoring requirements for carbon feed rate, pressure drop, temperature, scrubber flow and waste stream. If no deviations from normal operating parameter ranges are found, a report shall be submitted stating so.

Any new carbon streams other than what was processed during the stack test must be first approved by this Department.

Parameter Monitored: ACTIVATED CARBON
Upper Permit Limit: 2800 pounds per hour
Monitoring Frequency: HOURLY
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.



The initial report is due 1/30/2011.
Subsequent reports are due every 12 calendar month(s).

Condition 4: Compliance Demonstration
Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.4 (a)

Item 4.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR Emission Point: 00001
Process: 01A

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 4.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The pressure drop across the scrubber is continuously maintained at a minimum 12.5" w.c. across the venturi at all times when the regeneration furnace is in operation. The venturi throat area is controlled automatically depending on the gas flow to maintain the required pressure drop. From the venturi gases are directed to an impingement plate scrubber followed by a mist eliminator. The impingement plate scrubber flow rate is maintained at a minimum 250 gpm.

The monitoring devices and any recorders shall be calibrated or serviced and replaced as needed and operated in accordance with the manufacturer's recommendations, instructions and operating manuals. The permittee shall collect and record the following information each day:

- a. The pressure drop across the scrubber, in inches of water.
- b. The scrubber water flow rate, in gallons per minute.
- c. A log of the downtime for the control device, monitoring equipment, and associated regen furnace.

This facility shall implement and maintain a Preventative Maintenance & Inspection (PM) plan for the impingement plate scrubber and venturi scrubber used to control



emissions from the carbon regeneration furnace. This plan shall be in accordance with the manufacturers recommendations. The impingement scrubber and venturi scrubber PM plan shall include, at minimum, quarterly inspection and recording of:

- a. visible liquid leaks;
- b. system gas leaks;
- c. pressure drop across scrubber;
- d. abrasion, corrosion or buildup on fans, ducts, pipes;
- e. water flow; and
- f. pressure drop.

These records and other data recorded during inspections of the scrubbers shall be retained on-site for a period of not less than five years and shall be made available to any Department representative for review during normal business hours.

This facility shall submit annual reports of any leaks and/or operating parameters found during the daily inspections which are not within normal operating ranges specified by the manufacturer of the scrubber.

An annual deviation report is to be submitted no later than January 31 for the previous reporting year. The report is to identify exceptions to the monitoring requirements for carbon feed rate, pressure drop, temperature, scrubber flow and waste stream. If no deviations from normal operating parameter ranges are found, a report shall be submitted stating so.

A copy of the PM plan shall be submitted to this Department at 270 Michigan Avenue, Buffalo, New York 14203.

Parameter Monitored: PRESSURE DROP
Lower Permit Limit: 12.5 inches of water
Monitoring Frequency: DAILY
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE - SEE MONITORING DESCRIPTION
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2011.
Subsequent reports are due every 12 calendar month(s).

Condition 5: Compliance Demonstration
Effective between the dates of 07/30/2010 and Permit Expiration Date



Applicable Federal Requirement:6 NYCRR 212.4 (a)

Item 5.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR Emission Point: 00001
Process: 01A

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY075-00-5 PM-10

Item 5.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emissions generated from the carbon regeneration furnace may consist of hazardous metals including hexavalent chromium, mercury and lead and therefore shall be assigned an 'A' environmental rating. In accordance with 6NYCRR, Part 212.4(a) and Table 2 of 6NYCRR, Part 212.9 a minimum overall control efficiency of 99% will be required for particulate matter. A stack test (inlet and outlet) will be required to demonstrate the overall efficiency of the scrubber system.

Parameter Monitored: DEGREE OF AIR CLEANING

Lower Permit Limit: 99 percent reduction

Reference Test Method: RM 5/RM202/RM 201A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 6: Compliance Demonstration
Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.11 (a)

Item 6.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR Emission Point: 00001

New York State Department of Environmental Conservation

Permit ID: 9-2912-00027/02001

Facility DEC ID: 9291200027



Process: 01A

Regulated Contaminant(s):

CAS No: 007647-01-0	HYDROGEN CHLORIDE
CAS No: 007782-50-5	CHLORINE
CAS No: 0NY998-00-0	VOC
CAS No: 0NY500-00-0	TOTAL REDUCED SULFUR
CAS No: 0NY075-00-5	PM-10

Item 6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A stack test to determine scrubber efficiency for particulate emissions must be conducted within 60 days after achieving the maximum production rate and no later than 180 days from start-up. The stack test protocol which details the test methods shall be submitted for approval at least 30 days prior to the proposed stack test date.

An analysis of the carbon stream shall be submitted as part of the protocol. Calgon will not be allowed to process material other than spent carbon from municipal water treatment, other food grade, or potable water application sources. Calgon will submit to the Department for approval an analysis of spent carbon from each new source prior to processing at the facility. Calgon will maintain records of the representative parameters of all carbon streams to be processed in a format which is accessible to Department representatives during business hours.

The final test report must be submitted to this Department no later than 45 days following completion of the test.

The overall control efficiency (inlet and outlet) of particulate matter as PM-10 filterable and condensibles shall be demonstrated by Federal Reference Methods (FRM) 201A and 202 respectively.

Emissions of Total Reduced Sulfur (FRM 16), Total Volatile Organic Compounds (FRM 25A) and total hydrogen chloride/chlorine (FRM 0050) shall be determined at the outlet.

Reference Test Method: FRM 16/FRM 25A/FRM 50/FRM 201A/FRM 202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

New York State Department of Environmental Conservation

Permit ID: 9-2912-00027/02001

Facility DEC ID: 9291200027



Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 7: Compliance Demonstration
Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.4 (c)

Item 7.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR Emission Point: 00003
Process: 01B

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Particulate emissions from the spent reactivated carbon loading, unloading and handling operations are directed to a baghouse which is exhausted to atmosphere through emission point 00003. As per 6NYCRR, Part 212.4(c), emissions from this source shall not exceed 0.05 grains/dscf on a dry gas basis.

A routine baghouse inspection and maintenance program shall be established indicating daily, quarterly and annual periodic maintenance. A manometer or magnehelic gauge to measure the baghouse pressure drop shall be installed and the normal operating range shall be between 1"-6". Readings shall be recorded in a log and those outside that range will require the baghouse I&M program to be initiated. A record of all inspections and maintenance work performed along with the completion date shall be kept. The pressure gauge will be inspected and calibrated at least twice per year.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.05 grains per dscf

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1), and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

Item B: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.



Condition 8: Contaminant List

Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 8.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 007647-01-0
Name: HYDROGEN CHLORIDE

CAS No: 007782-50-5
Name: CHLORINE

CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 0NY075-00-5
Name: PM-10

CAS No: 0NY500-00-0
Name: TOTAL REDUCED SULFUR

CAS No: 0NY998-00-0
Name: VOC

Condition 9: Unavoidable noncompliance and violations

Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 201-1.4

Item 9.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

- (a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's



representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 10: Emission Unit Definition
Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 10.1:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-CARBR

Emission Unit Description:

This emission unit describes the activated carbon regeneration furnace (emission point 00001) and the baghouse(emission point 00003) associated with carbon loading and unloading activities. The activated carbon regeneration furnace is vented to a venturi scrubber and 2-stage impingement scrubber with mist eliminator for particulate and acid gas control.

Building(s): CALGON
CARBON

Condition 11: Compliance Demonstration



Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 11.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The North Tonawanda Wastewater Treatment facility is prohibited from re-starting operation of the sludge incinerator without first submitting an application for an Air State Facility permit modification.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

Subsequent reports are due every 12 calendar month(s).

Condition 12: Air pollution prohibited

Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 211.2

Item 12.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 13: Compliance Demonstration

Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 211.2

Item 13.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



Monitoring Description:

The facility shall immediately address any carbon spills outside the facility including but not limited to any outside storage areas, parking lots, roadways, and loading docks. The main public road shall at the driveway from the facility at all times be kept clean of dust/dirt which may be tracked off-site by trucks.

Inside, the facility will maintain the level of housekeeping so that fugitive emissions are at no time emitted from the building.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**** Emission Unit Level ****

Condition 14: Emission Point Definition By Emission Unit
Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 14.1:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-CARBR

Emission Point: 00001

Height (ft.): 56

Diameter (in.): 24

NYTMN (km.): 4772.82

NYTME (km.): 183.129

Building: CARBON

Emission Point: 00003

Height (ft.): 55

Length (in.): 85

Width (in.): 20

NYTMN (km.): 4772.82

NYTME (km.): 183.1

Building: CALGON

Condition 15: Process Definition By Emission Unit
Effective between the dates of 07/30/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 15.1:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-CARBR

Process: 01A

Source Classification Code: 3-90-006-99

Process Description:

The natural gas-fired activated carbon regeneration furnace receives spent activated carbon from off-site water treatment facilities for regeneration. The furnace is vented to a venturi scrubber followed by a 2-stage



impingement scrubber with mist eliminator for particulate and acid gas control.

Emission Source/Control: IMPIN - Control
Control Type: IMPINGEMENT PLATE SCRUBBER

Emission Source/Control: VENTS - Control
Control Type: VENTURI SCRUBBER

Emission Source/Control: ACRF1 - Process

Item 15.2:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-CARBR

Process: 01B

Process Description:

Spent carbon is trucked in sacks where it is off-loaded into a hopper system for the activated carbon regeneration furnace. Once the spent activated carbon has been regenerated, the product is directed to a bagger system to place the regenerated carbon sacks. These sacks are temporarily stored within the building until they are trucked off-site for commercial sale. The loading, unloading and general handling activities are vented to a fabric filter baghouse for particulate control and to atmosphere through emission point 00003.

Emission Source/Control: BAGH1 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BAGA1 - Process

Emission Source/Control: UNLA1 - Process

