

PROPOSED CAAPP PERMIT  
March 11, 2016

Attention:

Stericycle, Inc.  
Attn: R. Wade Van Zee, Regional Environmental Manager  
5815 Weldon Spring Road  
Clinton, Illinois 61727

State of Illinois

CLEAN AIR ACT PERMIT  
PROGRAM (CAAPP) PERMIT

Source:

Stericycle, Inc.  
5815 Weldon Spring Road  
Clinton, Illinois 61727

I.D. No.: 039808AAB  
Permit No.: 99110103

Permitting Authority:

Illinois Environmental Protection Agency  
Bureau of Air, Permit Section  
217/785-1705

**CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT**

Type of Application: Minor Modification (MM)  
Purpose of Application: Revise Existing CAAPP Permit

ID No.: 039808AAB  
Permit No.: 99110103  
Statement of Basis No.: 99110103-2015/04

Date Application Received: March 22, 2013  
Date Issued: June 24, 2015

Date Revision Received: March 1, 2016  
Date Revision Issued: TBD

Expiration Date: June 24, 2020  
Renewal Submittal Date: 9 Months Prior to Expiration Date

Source Name: Stericycle, Inc.  
Address: 5815 Weldon Spring Road  
City: Clinton  
County: DeWitt  
ZIP Code: 61727

This permit is hereby granted to the above-designated source authorizing operation in accordance with this CAAPP permit, pursuant to the above referenced application. This source is subject to the conditions contained herein. If a conflict exists between this document and previous versions of the CAAPP permit, this document supercedes those terms and conditions of the permit for which the conflict exists. The previous permit issued on June 24, 2015, is incorporated herein by reference. For further information on the source see Section 1 and for further discussion on the effectiveness of this permit see Condition 2.3(g).

If you have any questions concerning this permit, please contact Anatoly Belogorsky at 217/785-1705.

Raymond E. Pilapil  
Acting Manager, Permit Section  
Division of Air Pollution Control

REP:WDM:AB:psj

cc: IEPA, Permit Section  
IEPA, FOS, Region 3  
Lotus Notes Database

<u>Section</u>	<b>Table of Contents</b>	<u>Page</u>
<b>1</b>	<b>Source Information</b>	<b>3</b>
	1.1 Addresses	
	1.2 Contacts	
	1.3 Single Source	
<b>2</b>	<b>General Permit Requirements</b>	<b>4</b>
	2.1 Prohibitions	
	2.2 Emergency Provisions	
	2.3 General Provisions	
	2.4 Testing	
	2.5 Recordkeeping	
	2.6 Certification	
	2.7 Permit Shield	
	2.8 Title I Conditions	
	2.9 Reopening and Revising Permit	
	2.10 Emissions Trading Programs	
	2.11 Permit Renewal	
	2.12 Permanent Shutdown	
	2.13 Startup, Shutdown, and Malfunction	
<b>3</b>	<b>Source Requirements</b>	<b>12</b>
	3.1 Applicable Requirements	
	3.2 Applicable Plans and Programs	
	3.3 Title I Requirements	
	3.4 Synthetic Minor Limits	
	3.5 Reporting Requirements	
<b>4</b>	<b>Emission Unit Requirements</b>	<b>16</b>
	4.1 Commercial HMIWI	
<b>5</b>	<b>Additional Title I Requirements</b>	<b>32</b>
<b>6</b>	<b>Insignificant Activities Requirements</b>	<b>33</b>
	6.1 Insignificant Activities Subject to Specific Regulations	
	6.2 Insignificant Activities in 35 IAC 201.210(a)	
	6.3 Insignificant Activities in 35 IAC 201.210(b)	
	6.4 Applicable Requirements	
	6.5 Compliance Method	
	6.6 Notification Requirements for Insignificant Activities	
<b>7</b>	<b>Other Requirements</b>	<b>36</b>
	7.1 Testing	
	7.2 40 CFR 60 Subpart A Requirements (NSPS)	
<b>8</b>	<b>State Only Requirements</b>	<b>39</b>
	8.1 Permitted Emissions for Fees	
<b>Attachment 1</b>	<b>List of Emission Units at This Source</b>	<b>40</b>
<b>Attachment 2</b>	<b>Acronyms and Abbreviations</b>	<b>41</b>
<b>Attachment 3</b>	<b>Contact and Reporting Addresses</b>	<b>43</b>
<b>Attachment 4</b>	<b>Example Certification by a Responsible Official</b>	<b>44</b>

Stericycle, Inc.  
 I.D. No.: 039808AAB  
 Permit No.: 99110103

Date Received: 03-22-2013  
 Date Issued: 06-24-2015  
 Date Revision Issued: TBD

**Section 1 - Source Information**

**1. Addresses**

**Source**

Stericycle, Inc.  
5815 Weldon Spring Road  
Clinton, Illinois 61727

**Owner**

Stericycle, Inc.  
28161 North Keith Drive  
Lake Forest, Illinois 60045

**Operator**

Stericycle, Inc.  
5815 Weldon Spring Road  
Clinton, Illinois 61727

**Permittee**

The Operator of the source as identified in this table.

**2. Contacts**

**Certified Officials**

The source shall submit an Administrative Permit Amendment for any change in the Certified Officials, pursuant to Section 39.5(13) of the Act.

	<i>Name</i>	<i>Title</i>
<i>Responsible Official</i>	Frankten Brink	CFO
<i>Delegated Authority</i>	Wade Van Zee	Regional Environmental Manager

**Other Contacts**

	<i>Name</i>	<i>Phone No.</i>	<i>Email</i>
<i>Source Contact</i>	Wade Van Zee	217-935-4791	WVanZee@Stericycle.com
<i>Technical Contact</i>	Wade Van Zee	217-935-4791	WVanZee@Stericycle.com
<i>Correspondence</i>	Wade Van Zee	217-935-4791	WVanZee@Stericycle.com
<i>Billing</i>	Wade Van Zee	217-935-4791	WVanZee@Stericycle.com

**3. Single Source**

The source identified in Condition 1.1 above shall be defined to include all the following additional source(s):

<i>I.D. No.</i>	<i>Permit No.</i>	<i>Single Source Name and Address</i>
N/A	N/A	N/A

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

## Section 2 - General Permit Requirements

### 1. Prohibitions

- a. It shall be unlawful for any person to violate any terms or conditions of this permit issued under Section 39.5 of the Act, to operate the CAAPP source except in compliance with this permit issued by the IEPA under Section 39.5 of the Act or to violate any other applicable requirements. All terms and conditions of this permit issued under Section 39.5 of the Act are enforceable by USEPA and citizens under the Clean Air Act, except those, if any, that are specifically designated as not being federally enforceable in this permit pursuant to Section 39.5(7)(m) of the Act. [Section 39.5(6)(a) of the Act]
- b. After the applicable CAAPP permit or renewal application submittal date, as specified in Section 39.5(5) of the Act, the source shall not operate this CAAPP source without a CAAPP permit unless the complete CAAPP permit or renewal application for such source has been timely submitted to the IEPA. [Section 39.5(6)(b) of the Act]
- c. No Owner or Operator of the CAAPP source shall cause or threaten or allow the continued operation of an emission source during malfunction or breakdown of the emission source or related air pollution control equipment if such operation would cause a violation of the standards or limitations applicable to the source, unless this CAAPP permit granted to the source provides for such operation consistent with the Act and applicable Illinois Pollution Control Board regulations. [Section 39.5(6)(c) of the Act]
- d. Pursuant to Section 39.5(7)(g) of the Act, emissions from the source are not allowed to exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder, consistent with Section 39.5(17) of the Act and applicable requirements, if any.

### 2. Emergency Provisions

Pursuant to Section 39.5(7)(k) of the Act, the Owner or Operator of the CAAPP source may provide an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations under this CAAPP permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:

- a.
  - i. An emergency occurred and the source can identify the cause(s) of the emergency.
  - ii. The source was at the time being properly operated.
  - iii. The source submitted notice of the emergency to the IEPA within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
  - iv. During the period of the emergency the source took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or requirements in this permit.
- b. For purposes of Section 39.5(7)(k) of the Act, "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, such as an act of God, that requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operation error.

Stericycle, Inc.  
 I.D. No.: 039808AAB  
 Permit No.: 99110103

Date Received: 03-22-2013  
 Date Issued: 06-24-2015  
 Date Revision Issued: TBD

- c. In any enforcement proceeding, the source seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve the source of any reporting obligations under existing federal or state laws or regulations.

**3. General Provisions**

**a. Duty to Comply**

The source must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. [Section 39.5(7) (o) (i) of the Act]

**b. Need to Halt or Reduce Activity is not a Defense**

It shall not be a defense for the source in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Section 39.5(7) (o) (ii) of the Act]

**c. Duty to Maintain Equipment**

The source shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements. [Section 39.5(7) (a) of the Act]

**d. Disposal Operations**

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated there under. [Section 39.5(7) (a) of the Act]

**e. Duty to Pay Fees**

- i. The source must pay fees to the IEPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto. [Section 39.5(7) (o) (vi) of the Act]
- ii. The IEPA shall assess annual fees based on the allowable emissions of all regulated air pollutants, except for those regulated air pollutants excluded in Section 39.5(18)(f) of the Act and insignificant activities in Section 6, at the source during the term of this permit. The amount of such fee shall be based on the information supplied by the applicant in its complete CAAPP permit application. [Section 39.5(18) (a) (ii) (A) of the Act]
- iii. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois EPA, P.O. Box 19276, Springfield, IL, 62794-9276. Include on the check: ID #, Permit #, and "CAAPP Operating Permit Fees". [Section 39.5(18) (e) of the Act]

**f. Obligation to Allow IEPA Surveillance**

Pursuant to Sections 4(a), 39.5(7) (a), and 39.5(7) (p) (ii) of the Act, inspection and entry requirements that necessitate that, upon presentation of credentials and other documents as may be required by law and in accordance with constitutional limitations, the source shall allow the IEPA, or an authorized representative to perform the following:

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

- i. Enter upon the source's premises where the emission unit(s) are located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
- iv. Sample or monitor any substances or parameters at any location at reasonable times:
  - A. As authorized by the Clean Air Act or the Act, at reasonable times, for the purposes of assuring compliance with this CAAPP permit or applicable requirements; or
  - B. As otherwise authorized by the Act.
- v. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

**g. Effect of Permit**

- i. Pursuant to Section 39.5(7) (j) (iv) of the Act, nothing in this CAAPP permit shall alter or affect the following:
  - A. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section.
  - B. The liability of the Owner or Operator of the source for any violation of applicable requirements prior to or at the time of permit issuance.
  - C. The applicable requirements of the acid rain program consistent with Section 408(a) of the Clean Air Act.
  - D. The ability of USEPA to obtain information from the source pursuant to Section 114 (inspections, monitoring, and entry) of the Clean Air Act.
- ii. Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, pursuant to Sections 39.5(7) (j) and (p) of the Act, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements. [35 IAC 201.122 and Section 39.5(7) (a) of the Act]

**h. Severability Clause**

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, other portions of this permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and the rights and obligations of the source shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force. [Section 39.5(7) (i) of the Act]

**4. Testing**

- a. Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

conducted using standard test methods if applicable test methods are not specified by the applicable regulations or otherwise identified in the conditions of this permit. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of any tests conducted as required by this permit or as the result of a request by the IEPA shall be submitted as specified in Condition 7.1 of this permit. [35 IAC Part 201 Subpart J and Section 39.5(7) (a) of the Act]

- b. Pursuant to Section 4(b) of the Act and 35 IAC 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:
  - i. **Testing by Owner or Operator:** The IEPA may require the Owner or Operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the IEPA, at such reasonable times as may be specified by the IEPA and at the expense of the Owner or Operator of the emission source or air pollution control equipment. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The IEPA shall have the right to observe all aspects of such tests.
  - ii. **Testing by the IEPA:** The IEPA shall have the right to conduct such tests at any time at its own expense. Upon request of the IEPA, the Owner or Operator of the emission source or air pollution control equipment shall provide, without charge to the IEPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

**5. Recordkeeping**

**a. Control Equipment Maintenance Records**

Pursuant to Section 39.5(7) (b) of the Act, a maintenance record shall be kept on the premises for each item of air pollution control equipment. At a minimum, this record shall show the dates maintenance was performed and the nature of preventative maintenance activities.

**b. Retention of Records**

- i. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. [Section 39.5(7) (e) (ii) of the Act]
- ii. Pursuant to Section 39.5(7) (a) of the Act, other records required by this permit including any logs, plans, procedures, or instructions required to be kept by this permit shall be retained for a period of at least 5 years from the date of entry unless a different period is specified by a particular permit provision.

**c. Availability of Records**

- i. Pursuant to Section 39.5(7) (a) of the Act, the Permittee shall retrieve and provide paper copies, or as electronic media, any records retained in an electronic format (e.g., computer) in response to an IEPA or USEPA request during the course of a source inspection.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

- ii. Pursuant to Section 39.5(7)(a) of the Act, upon written request by the IEPA for copies of records or reports required to be kept by this permit, the Permittee shall promptly submit a copy of such material to the IEPA. For this purpose, material shall be submitted to the IEPA within 30 days unless additional time is provided by the IEPA or the Permittee believes that the volume and nature of requested material would make this overly burdensome, in which case, the Permittee shall respond within 30 days with the explanation and a schedule for submittal of the requested material. (See also Condition 2.9(d))

**6. Certification**

**a. Compliance Certification**

- i. Pursuant to Section 39.5(7)(p)(v)(C) of the Act, the source shall submit annual compliance certifications by May 1 unless a different date is specified by an applicable requirement or by a particular permit condition. The annual compliance certifications shall include the following:
  - A. The identification of each term or condition of this permit that is the basis of the certification.
  - B. The compliance status.
  - C. Whether compliance was continuous or intermittent.
  - D. The method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
- ii. Pursuant to Section 39.5(7)(p)(v)(D) of the Act, all compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the IEPA Compliance Section. Addresses are included in Attachment 3.
- iii. Pursuant to Section 39.5(7)(p)(i) of the Act, all compliance reports required to be submitted shall include a certification in accordance with Condition 2.6(b).

**b. Certification by a Responsible Official**

Any document (including reports) required to be submitted by this permit shall contain a certification by the responsible official of the source that meets the requirements of Section 39.5(5) of the Act and applicable regulations. [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included in Attachment 4 of this permit.

**7. Permit Shield**

- a. Pursuant to Section 39.5(7)(j) of the Act, except as provided in Condition 2.7(b) below, the source has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the IEPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit. This permit shield does not extend to applicable requirements which are promulgated after May 8, 2015 (date USEPA notice started), unless this permit has been modified to reflect such new requirements.
- b. Pursuant to Section 39.5(7)(j) of the Act, this permit and the terms and conditions herein do not affect the Permittee's past and/or continuing obligation with respect to

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

statutory or regulatory requirements governing major source construction or modification under Title I of the CAA. Further, neither the issuance of this permit nor any of the terms or conditions of the permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.

- c. Pursuant to Section 39.5(7) (a) of the Act, the issuance of this permit by the IEPA does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any currently pending or future legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the IEPA or the USEPA may have against the applicant including, but not limited to, any enforcement action authorized pursuant to the provision of applicable federal and state law.

**8. Title I Conditions**

Pursuant to Sections 39(a), 39(f), and 39.5(7) (a) of the Act, as generally identified below, this CAAPP permit may contain certain conditions that relate to requirements arising from the construction or modification of emission units at this source. These requirements derive from permitting programs authorized under Title I of the Clean Air Act (CAA) and regulations thereunder, and Title X of the Illinois Environmental Protection Act (Act) and regulations implementing the same. Such requirements, including the New Source Review programs for both major (i.e., PSD and nonattainment areas) and minor sources, are implemented by the IEPA.

- a. This permit may contain conditions that reflect requirements originally established in construction permits previously issued for this source. These conditions include requirements from preconstruction permits issued pursuant to regulations approved or promulgated by USEPA under Title I of the CAA, as well as requirements contained within construction permits issued pursuant to state law authority under Title X of the Act. Accordingly, all such conditions are incorporated into this CAAPP permit by virtue of being either an "applicable Clean Air Act requirement" or an "applicable requirement" in accordance with Section 39.5 of the Act. These conditions are identifiable herein by a designation to their origin of authority.
- b. This permit may contain conditions that reflect necessary revisions to requirements established for this source in preconstruction permits previously issued under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIR".
  - i. Revisions to original Title I permit conditions are incorporated into this permit through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
  - ii. Revised Title I permit conditions shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.
- c. This permit may contain conditions that reflect new requirements for this source that would ordinarily derive from a preconstruction permit established under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIN".
  - i. The incorporation of new Title I requirements into this CAAPP permit is authorized through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
  - ii. Any Title I conditions that are newly incorporated shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

## 9. Reopening and Revising Permit

### a. Permit Actions

This permit may be modified, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the source for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [Section 39.5(7) (o) (iii) of the Act]

### b. Reopening and Revision

Pursuant to Section 39.5(15) (a) of the Act, this permit must be reopened and revised if any of the following occur:

- i. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;
- ii. Additional requirements become applicable to the source for acid deposition under the acid rain program;
- iii. The IEPA or USEPA determines that this permit contains a material mistake or that an inaccurate statement was made in establishing the emission standards or limitations, or other terms or conditions of this permit; or
- iv. The IEPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements.

### c. Inaccurate Application

Pursuant to Sections 39.5(5) (e) and (i) of the Act, the IEPA has issued this permit based upon the information submitted by the source in the permit application referenced on page 1 of this permit. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation or reopening of this CAAPP under Section 39.5(15) of the Act.

### d. Duty to Provide Information

The source shall furnish to the IEPA, within a reasonable time specified by the IEPA any information that the IEPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the source shall also furnish to the IEPA copies of records required to be kept by this permit. [Section 39.5(7) (o) (v) of the Act]

## 10. Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement. [Section 39.5(7) (o) (vii) of the Act]

## 11. Permit Renewal

- a. Upon the expiration of this permit, if the source is operated, it shall be deemed to be operating without a permit unless a timely and complete CAAPP application has been submitted for renewal of this permit. However, if a timely and complete application to renew this CAAPP permit has been submitted, the terms and all conditions of the most recent issued CAAPP permit will remain in effect until the issuance of a renewal permit. [Sections 39.5(5) (1) and (o) of the Act]

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

- b. For purposes of permit renewal, a timely application is one that is submitted no less than 9 months prior to the date of permit expiration. [Section 39.5(5)(n) of the Act]

**12. Permanent Shutdown**

Pursuant to Section 39.5(7)(a) of the Act, this permit only covers emission units and control equipment while physically present at the source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

**13. Startup, Shutdown, and Malfunction**

Pursuant to Section 39.5(7)(a) of the Act, in the event of an action to enforce the terms or conditions of this permit, this permit does not prohibit a Permittee from invoking any affirmative defense that is provided by the applicable law or rule.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

## Section 3 - Source Requirements

### 1. Applicable Requirements

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

#### a. Fugitive Particulate Matter

- i. Pursuant to 35 IAC 212.301 and 35 IAC 212.314, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source unless the wind speed is greater than 25 mph.
- ii. Compliance Method (Fugitive Particulate Matter)

Upon request by the IEPA, the Permittee shall conduct observations at the property line of the source for visible emissions of fugitive particulate matter from the source to address compliance with 35 IAC 212.301. For this purpose, daily observations shall be conducted for a week for particular area(s) of concern at the source, as specified in the request, observations shall begin either within one day or three days of receipt of a written request from the IEPA, depending, respectively, upon whether observations will be conducted by employees of the Permittee or a third-party observer hired by the Permittee to conduct observations on its behalf. The Permittee shall keep records for these observations, including identity of the observer, the date and time of observations, the location(s) from which observations were made, and duration of any fugitive emissions event(s).

#### b. Ozone Depleting Substances

Pursuant to 40 CFR 82.150(b), the Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- i. Pursuant to 40 CFR 82.156, persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices.
- ii. Pursuant to 40 CFR 82.158, equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment.
- iii. Pursuant to 40 CFR 82.161, persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program.
- iv. Pursuant to 40 CFR 82 Subpart B, any person performing service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner shall comply with 40 CFR 82 Subpart B, Servicing of Motor Vehicle Air Conditioners.
- v. Pursuant to 40 CFR 82.166, all persons shall comply with the applicable reporting and recordkeeping requirements of 40 CFR 82.166.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

**c. Asbestos Demolition and Renovation**

- i. Asbestos Fees. Pursuant to Section 9.13(a) of the Act, for any site for which the Owner or Operator must file an original 10-day notice of intent to renovate or demolish pursuant to Condition 3.1(d) (ii) below and 40 CFR 61.145(b), the owner or operator shall pay to the IEPA with the filing of each 10-day notice a fee of \$150.
- ii. Pursuant to 40 CFR 61 Subpart M, Standard of Asbestos, prior to any demolition or renovation at this facility, the Permittee shall fulfill notification requirements of 40 CFR 61.145(b).
- iii. Pursuant to 40 CFR 61.145(c), during demolition or renovation, the Permittee shall comply with the procedures for asbestos emission control established by 40 CFR 61.145(c).

**d. Future Emission Standards**

Pursuant to Section 39.5(15) (a) of the Act, this source shall comply with any new or revised applicable future standards of 40 CFR 60, 61, 62, or 63; or 35 IAC Subtitle B after the date issued of this permit. The Permittee shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by Condition 2.6(a). This permit may also have to be revised or reopened to address such new regulations in accordance to Condition 2.9.

**2. Applicable Plans and Programs**

Pursuant to Sections 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

**a. Fugitive PM Operating Program**

Should this source become subject to 35 IAC 212.302, the Permittee shall prepare and operate under a Fugitive PM Operating Program consistent with 35 IAC 212.310 and submitted to the IEPA for its review. The Fugitive PM Operating Program shall be designed to significantly reduce fugitive particulate matter emissions, pursuant to 35 IAC 212.309(a). Any future Fugitive PM Operating Program made by the Permittee during the permit term is automatically incorporated by reference provided the Fugitive PM Operating Program is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the Fugitive PM Operating Program. In the event that the IEPA notifies the Permittee of a deficiency with any Fugitive PM Operating Program, the Permittee shall be required to revise and resubmit the Fugitive PM Operating Program within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7) (a) of the Act.

**b. PM<sub>10</sub> Contingency Measure Plan**

Should this source become subject to 35 IAC 212.700, then the Permittee shall prepare and operate under a PM<sub>10</sub> Contingency Measure Plan reflecting the PM<sub>10</sub> emission reductions as set forth in 35 IAC 212.701 and 212.703. The Permittee shall, within 90 days after the date this source becomes subject to 35 IAC 212.700, submit a request to modify this CAAPP permit in order to include a new, appropriate PM<sub>10</sub> Contingency Measure Plan.

**c. Episode Action Plan**

- i. Pursuant to 35 IAC 244.141, the Permittee shall have on file with the IEPA an Episode Action Plan for reducing the levels of emissions during yellow alerts, red

Stericycle, Inc.  
 I.D. No.: 039808AAB  
 Permit No.: 99110103

Date Received: 03-22-2013  
 Date Issued: 06-24-2015  
 Date Revision Issued: TBD

alerts, and emergencies, consistent with safe operating procedures. The Episode Action Plan shall contain the information specified in 35 IAC 244.144.

- ii. The Permittee shall immediately implement the appropriate steps described in the Episode Action Plan should an air pollution alert or emergency be declared, as required by 35 IAC 244.169, or as may otherwise be required under 35 IAC 244, Appendix D.
- iii. Pursuant to 35 IAC 244.143(d), if an operational change occurs at the source which invalidates the Episode Action Plan, a revised Episode Action Plan shall be submitted to the IEPA for review within 30 days of the change and is automatically incorporated by reference provided the revision is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the revision. In the event that the IEPA notifies the Permittee of a deficiency with any revision to the Episode Action Plan, the Permittee shall be required to revise and resubmit the Episode Action Plan within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7) (a) of the Act.
- iv. The Episode Action Plan, as submitted by the Permittee on May 6, 2015, is incorporated herein by reference. The document constitutes the formal Episode Action Plan required by 35 IAC 244.142, addressing the actions that will be implemented to reduce SO2, PM10, NO2, CO and VOM emissions from various emissions units in the event of a yellow alert, red alert or emergency issued under 35 IAC 244.161 through 244.165.
- v. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep a copy of the Episode Action Plan, any amendments or revisions to the Episode Action Plan (as required by Condition 3.2(c)), and the Permittee shall also keep a record of activities completed according to the Episode Action Plan.

**d. Risk Management Plan (RMP)**

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal regulations for Chemical Accident Prevention in 40 CFR Part 68, then the Permittee shall submit a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or submit a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan, as part of the annual compliance certification required by Condition 2.6(a). This condition is imposed in this permit pursuant to 40 CFR 68.215(a) (2) (i) and (ii).

**3. Title I Requirements**

As of the date of issuance of this permit, there are no source-wide Title I requirements that need to be included in this Condition.

**4. Synthetic Minor Limits**

As of the date of issuance of this permit, there are no requirements that need to be included in this Condition.

**5. Reporting Requirements**

The Permittee shall submit the following information pursuant to Section 39.5(7) (f) of the Act. Addresses are included in Attachment 3.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

**a. Prompt Reporting**

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:
  - I. Requirements in Condition 3.1(a)
  - II. Requirements in Condition 3.2(c)
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
  - A. Date and time of the deviation.
  - B. Emission unit(s) and/or operation involved.
  - C. The duration of the event.
  - D. Probable cause of the deviation.
  - E. Corrective actions or preventative measures taken.
- iv. All deviation reports required in this Permit shall be identified, summarized, and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

**b. Semiannual Reporting**

- i. Pursuant to Section 39.5(7)(f)(i) of the Act, the Permittee shall submit Semiannual Monitoring Reports to the IEPA, Air Compliance Section, summarizing required monitoring as part of the Compliance Methods in this Permit submitted every six months as follows, unless more frequent reporting is required in other parts of this permit.

<u>Monitoring Period</u>	<u>Report Due Date</u>
January through June	July 31
July through December	January 31

- ii. The Semiannual Monitoring Report must be certified by a Responsible Official consistent with Condition 2.6(b).

**c. Annual Emissions Reporting**

Pursuant to 35 IAC Part 254, the Source shall submit an Annual Emission Report to the Air Quality Planning Section, due by May 1 of the year following the calendar year in which the emissions took place. All records and calculations upon which the verified and reported data are based must be retained by the source.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

**Section 4 - Emission Unit Requirements**

**4.1 Hospital Medical Infectious Waste Incinerators (HMIWI)**

**1. Emission Units and Operations**

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Continuous HMIWI #1 (maximum waste charging rate of 1,500 lbs/hr)	PM, CO, HCL, SO <sub>2</sub> , NO <sub>x</sub> , VOM, Pb, Cd, Hg, Dioxins/Furans	1988	2013 (Equipped w/additional control)	SNCR, Quench Tower/Condensing Absorber, Venturi Scrubber/Demister and Carbon Bed	Thermocouples, pH Probes, Pressure Gauges and Flow Meters
Continuous HMIWI #2 (maximum waste charging rate of 1,500 lbs/hr)	PM, CO, HCL, SO <sub>2</sub> , NO <sub>x</sub> , VOM, Pb, Cd, Hg, Dioxins/Furans	1990	2013 (Equipped w/additional control)	SNCR, Quench Tower/Condensing Absorber, Venturi Scrubber/Demister and Carbon Bed	Thermocouples, pH Probes, Pressure Gauges and Flow Meters

**2. Applicable Requirements**

For the emission units in Condition 4.1(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act.

**a. i. Opacity Requirements**

- A. Pursuant to 35 IAC 229.125(d), the Permittee shall not cause or allow any emissions that cause greater than 6 percent opacity, as measured on a 6-minute block average, according to Method 9, 40 CFR 60, Appendix A, incorporated by reference at Section 229.104(d) of this Part, from any stack used by an HMIWI.
- B. Pursuant to 35 IAC 229.125(e), the Permittee shall not cause to be discharged into the atmosphere visible emissions of combustion ash from an ash conveying system (including conveyor transfer points), enclosures of ash conveying systems, buildings, or other sources in excess of 5 percent of the observation period of 9 minutes per 3-hour period, according to Method 22, 40 CFR 60, Appendix A, incorporated by reference in Section 229.104(d) of this Part, except as provided by the following exclusions:
  - I. Visible emissions discharged inside buildings or enclosures of ash conveying systems; or
  - II. During maintenance and repair of ash conveying systems. Maintenance and/or repair shall not exceed 10 operating days per calendar quarter unless the owner or operator of an HMIWI makes a request to the Agency in writing for a longer period of time to complete maintenance and/or repair, and the Agency approves the owner's or operator's request in writing.

**ii. Compliance Method (Opacity Requirements)**

Testing

- A. Pursuant to 35 IAC 229.146(b), the Permittee conduct annual tests by January 1 of each year by using Methods 9 and 22 and applicable methods and procedures established in 35 IAC 229.140.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

Recordkeeping

B. Pursuant to 35 IAC 229.182(2)(A), the Permittee shall keep the records of conducted opacity measurements of each HMIWI, including the date of such measurements and operating conditions/parameters of HMIWI when opacity measurements have been conducted.

**b i. Emission Limits Established in 35 IAC Part 229**

A. Pursuant to 35 IAC 229.115(b) and 229.125(c), for each HMIWI, the Permittee shall comply with the following limits. These limits are applicable at all times, including periods of startup, shutdown and malfunction.

Pollutant	Terms (7% oxygen, dry basis)	Emissions Limit
Particulate matter (PM)	Milligrams per dry standard cubic meter (mg/dscm) (grains per dry standard cubic foot (gr/dscf))	25 (0.011)
Carbon monoxide (CO)	Parts per million by volume (ppmv)	11
Dioxins/Furans	Nanograms per dscm total dioxins/furans (grains/billion dscf) <u>or</u> ng/dscm TEQ (gr/10 <sup>9</sup> dscf)	9.3 (4.1) <u>or</u> 0.054 (0.024)
Hydrogen chloride (HCL)	ppmv	6.6
Sulfur dioxide (SO <sub>2</sub> )	ppmv	9.0
Nitrogen oxides (NO <sub>x</sub> )	ppmv	140
Lead (Pb)	mg/dscm (gr/10 <sup>3</sup> dscf)	0.036 (0.016)
Cadmium (Cd)	mg/dscm (gr/10 <sup>3</sup> dscf)	0.0092 (0.0040)
Mercury (Hg)	mg/dscm (gr/10 <sup>3</sup> dscf)	0.018 (0.0079)

ii. Compliance Method (Emission Requirements of 35 IAC Part 229)

Annual Performance Testing

A. Pursuant to 35 IAC 229.148, the Permittee shall conduct annual performance tests of PM, CO and HCL emissions as follows:

- I. Tests shall be completed by January 1 of each year.
- II. If all 3 annual performance tests over a 3-year period indicate compliance with the applicable emission limits for PM, CO, or HCL, the Permittee may forego a performance test for that pollutant during the next 2 years. If the next performance test conducted every third year indicates compliance with the emission limits for PM, CO, or HCL, the Permittee may forego a performance test for that pollutant for an additional 2 years from the date of the previous performance test.
- III. If any performance test indicates noncompliance with the respective emission limit, the Permittee shall conduct a performance test for that pollutant annually until all annual performance tests over a 3-year period indicate compliance with the respective emission limits.

B. I. Pursuant to Construction Permit #11120048, for each HMIWI, the Permittee shall conduct performance tests for mercury emissions in conjunction with the first three annual performance tests conducted pursuant to 35 IAC 229.148(a).

II. For each HMIWI, if the primary carbon bed of an affected unit would be replaced six months or more before one of the above tests is

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

conducted, the Permitted shall have an additional performance test for mercury conducted before the primary carbon bed is replaced.

Subsequent Performance Testing

- C. Pursuant to 35 IAC 229.144(a), the Permittee may conduct a repeat performance test at any time to establish new site specific operating values for the HMIWI. Such new site specific operating parameter values may not be relied upon until approved by the IEPA as a permit condition.

Periodic Performance Testing

- D. Pursuant to Section 39.5(7)(c) of the Act, within 5 years after issuance of this permit, the Permittee shall conduct the tests of Dioxins/Furans, SO<sub>2</sub>, NO<sub>x</sub>, Pb, Cd and Hg by using the methods identified below and referenced in 35 IAC Section 229, Appendix C.

General Testing Requirements

- E. Pursuant to 35 IAC 229.140(b), when conducting a performance test for an HMIWI, the Permittee shall:
- I. Test an HMIWI at the waste charging rate specified in its permit.
  - II. Burn representative waste streams that are typically combusted in that HMIWI;
  - III. Conduct testing during periods that are inclusive of maximum emissions of the HMIWI and not during periods of startup, malfunction, or shutdown; and
  - IV. Weigh the amount of waste combusted for each run of the performance test before charging the waste to an HMIWI to within 1.0 percent accuracy.
- F. Pursuant to 35 IAC 229.140(c) and in addition to requirements of Section 7.1 of this permit, the Permittee shall submit a test plan to the IEPA at least 45 days before conducting a performance test. Performance test plans shall include the following:
- I. The proposed date of the performance test;
  - II. A roster of testing personnel, which provides information concerning their testing experience;
  - III. A description of the specific conditions under which the test will be performed, including, at a minimum:
    - 1. Why these conditions will be representative of the operation and include maximum emissions of the HMIWI; and
    - 2. The means by which the operating parameter values will be determined.
  - IV. A technical description of the HMIWI being tested;
  - V. The parameters and pollutants that will be monitored during the performance test; and

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

- VI. The quality assurance procedures that will be followed during the performance test.
- G. Pursuant to 35 IAC 229.140(g), any use of a bypass stack during a performance test shall invalidate the results of that run

Test Methods

- H. Pursuant to 35 IAC Section 229, Appendix C, the Permittee shall conduct the stack tests by using the following test methods and procedures:
  - I. All performance tests shall consist of a minimum of 3 test runs conducted under representative operating conditions. The minimum sample time of 1 hour per test run shall be used unless otherwise indicated. In order to demonstrate compliance with the emissions limits set forth in Subpart E of this Part, the arithmetic average of all 3 performance test runs shall be used.
  - II. Method 1, at 40 CFR 60, incorporated by reference at Section 229.104(d), shall be used to select the sampling location and number of traverse points.
  - III. Method 2, at 40 CFR 60, shall be used to determine average gas density, as well as to measure gas velocity.
  - IV. Method 3, 3A, or 3B, at 40 CFR 60, shall be used for gas composition analysis, including measurement of oxygen concentration. Method 3, 3A or 3B, at 40 CFR 60, shall be used simultaneously with each of the other reference methods. As an alternative to Method 3B, ASME PTC-19-10-1981-Part 10 may be used.
  - V. The pollutant concentrations shall be adjusted to 7 percent oxygen using the following equation:

$$C_{adj} = C_{meas} (20.9-7)/(20.9-\%O_2)$$

Where:

- $C_{adj}$  = pollutant concentration adjusted to 7 percent oxygen;
- $C_{meas}$  = pollutant concentration measured on a dry basis
- $(20.9-7)$  = 20.9 percent oxygen - 7 percent oxygen (defined oxygen corrective basis);
- 20.9 = oxygen concentration in air, percent; and
- $\%O_2$  = oxygen concentration measured on a dry basis, percent.

- VI. Method 5, 26A, or 29, at 40 CFR 60, shall be used to measure PM emissions. As an alternative, a PM CEMS may be used in determining compliance with PM emissions using a 12-hour rolling average, calculated each hour as the average of the previous 12 operating hours.
- VII. Method 7 or 7E, at 40 CFR 60, shall be used to measure  $NO_x$  emissions.
- VIII. Method 6 or 6C, at 40 CFR 60, shall be used to measure  $SO_2$  emissions.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

- IX. Method 9, at 40 CFR 60, shall be used to measure stack opacity. As an alternative, the use of a bag leak detection system or a PM CEMS to demonstrate compliance with the PM standards is considered demonstrative of compliance with the opacity requirements.
- X. Method 10 or 10B, at 40 CFR 60, shall be used to measure CO emissions. As an alternative, a CO CEMS may be used to measure CO emissions.
- XI. Method 22, at 40 CFR 60, shall be used to measure fugitive ash emissions.
- XII. Method 23, at 40 CFR 60, shall be used to measure total dioxin/furan emissions. As an alternative, the facility may elect to sample total dioxins/furans by installing, calibrating, maintaining, and operating a continuous automated sampling system for monitoring dioxin/furan emissions. The minimum sample time for Method 23 sampling shall be 4 hours per test run. If the affected facility has selected the TEQ for dioxin/furans (set out in Appendix A of Part 229), as provided under Section 229.125 or 229.126, whichever is applicable, the following procedures shall be used to determine compliance:
1. Measure the concentration of each dioxin/furan tetra-through-octa-congener emitted using Method 23;
  2. For each dioxin/furan congener measured in accordance with subsection (i)(1) of this Section, multiply the congener concentration by its corresponding TEQ factor specified in Appendix A of this Part; and
  3. Sum the products calculated in accordance with subsection (i)(2) of this Section to obtain the total concentration of dioxin/furans emitted in terms of TEQ.
- XIII. Method 26 or 26A, at 40 CFR 60, shall be used to measure HCl emissions. As an alternative, an HCl CEMS may be used to measure HCl emissions.
- XIV. Method 29, at 40 CFR 60, shall be used to measure Pb, Cd, and Hg emissions. As an alternative, ASTM D6784-02 may be used to measure Hg emissions.

Monitoring

See also Condition 4.1(e) for monitoring parameters.

Inspections

- A. Pursuant to 35 IAC 229.162(b), (c), and (e), the Permittee shall conduct annual inspection of HMIWI by January 1 of each year and, at a minimum, shall consist of the following steps:
- I. An inspection of all burners, pilot assemblies, and pilot sensing devices, cleaning the pilot flame sensor, as necessary;
  - II. An inspection of the primary and secondary chamber combustion air flow, adjusting, as necessary;
  - III. An inspection of the hinges and door latches, lubricating, as necessary;

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

- IV. An inspection of dampers, fans, and blowers;
  - V. An inspection of the HMIWI door and door gaskets;
  - VI. An inspection of all HMIWI motors;
  - VII. An inspection of the primary chamber refractory lining, cleaning, repairing or replacing the lining, as necessary;
  - VIII. An inspection of the incinerator shell for corrosion or hot spots;
  - IX. An inspection of the secondary/tertiary chamber and stack, cleaning as necessary;
  - X. Where applicable, an inspection of the mechanical loader, including limit switches;
  - XI. A visual inspection of the waste bed (grates), repairing or sealing, as necessary;
  - XII. Where applicable, an inspection of air pollution control devices to ensure their proper operation;
  - XIII. Where applicable, an inspection of the waste heat boiler systems;
  - XIV. An inspection of all bypass stack components;
  - XV. Calibration of thermocouples, sorbent feed systems and monitoring equipment; and
  - XVI. A general inspection of all equipment to ensure that it is maintained in good operating condition.
- B. Pursuant to 35 IAC 229.162(f) and (g), the Permittee shall conduct annual inspection of HMIWI's air pollution control device by January 1 of each year and, at a minimum, shall consist of the following steps:
- I. Where applicable, an inspection of the thermocouples, sorbent feed systems, and any other monitoring equipment, adjusting applicable calibrations, as necessary; and
  - II. A general inspection of the equipment to ensure that it is maintained in good operating condition.
- C. Pursuant to 35 IAC 229.162(h), all maintenance, adjustments, or repairs identified during an air pollution control device inspection required from above shall be completed within 10 days after the inspection. The Permittee of an HMIWI may have a longer period of time in which to complete any repairs identified as a result of the required inspection, provided that it makes this request to the IEPA in writing and the IEPA approves the request in writing.

Recordkeeping

- A. Pursuant to 35 IAC 229.182(a)(2)(A), the Permittee shall keep records of concentrations of all applicable pollutants listed in 35 IAC 229.125(c).
- B. Pursuant to 35 IAC 229.182(a)(6), the Permittee shall keep records of the results of the initial, annual, and any other subsequent performance tests

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

conducted to determine compliance with the applicable emissions limits and/or to establish or re-establish operating parameters, as applicable, and a description, including sample calculations, of how the operating parameters were established or re-established, if applicable.

- C. Pursuant to 35 IAC 229.182(e), the Permittee shall keep records of the annual equipment inspections.
- D. Pursuant to 35 IAC 229.182(f), the Permittee shall keep records of the annual air pollution control device inspections.
- E. Pursuant to 35 IAC 229.182(h), the Permittee shall keep records of any required maintenance, adjustments, or repairs identified during an inspections not completed within 10 days after the inspection or the timeframe approved in writing by the IEPA.

c. i. **Hydrogen Chloride Requirements (HCL)**

- A. Pursuant to Section 39.5(7) (a) of the Act and Construction Permits #87070016 and #89070019, total HCL emissions from both HMIWI shall not exceed the following limits: [T1]

HCL Emissions	
<u>(lbs/Hour)</u>	<u>(Tons/Year)</u>
1.5	6.57

ii. Compliance Method (HCL Requirements)

Monitoring

- A. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total). [T1]

Testing

- B. See Condition 4.1(2) (b) (ii).

Recordkeeping

- C. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of HCL emissions from HMIWI, along with supporting documentation, calculations, stack test data (including and emission factors derived from the most recent stack test).

d. i. **Volatile Organic Material Requirements (VOM)**

- A. Pursuant 35 IAC 215.301, no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except as provided in Sections 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply only to photochemically reactive material. Alternatively, pursuant to 35 IAC 215.302, a control device shall achieve overall VOM control reduction by at least 85 percent.

ii. Compliance Method (VOM Requirements)

Testing

- A. See Condition 4.1(2) (b) (ii).

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

Recordkeeping

B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of HMIWI control efficiencies, along with supporting documentation, calculations.

**e. i. Operating Parameter Requirements**

Pursuant to 35 IAC 229.150 and Construction Permit #11120048, the Permittee shall comply with the following requirements:

A. The HMIWI using wet scrubbers shall not operate above any of the applicable maximum or below any of the applicable minimum operating parameters values, as monitored pursuant to the following:

Operating Parameters	Data Measurement	Frequency of Data Recording	Basis for Parameter	
			Wet Scrubber	SNCR System
Maximum Charge Rate <sup>1</sup>	Continuous	Once per hour	X	X
Maximum Flue Gas Temperature	Continuous	Once per minute	X	-
Minimum Secondary Chamber Temperature	Continuous	Once per minute	X	X
Minimum Reagent Flow Rate	Hourly	Once per hour	-	X
Minimum Pressure Drop Across Scrubber or Minimum Horsepower or Amperage of Scrubber Fan(s)	Continuous	Once per minute	X	-
Minimum Scrubber Liquor Flow Rate	Continuous	Once per hour	X	-
Minimum Scrubber Liquor pH	Continuous	Once per hour	X	-

<sup>1</sup> For batch HMIWIs, record the charge per batch.

B. The Permittee shall monitor and measure the following operating parameters of the HMIWI at the indicated recording frequencies, as carbon beds are used to control emissions:

Operating Parameters	Data Measurement	Minimum Frequency of Data Recording
Maximum Charge Rate <sup>1</sup>	Continuous	Once per hour
Maximum Flue Gas Temperature at Inlet to Carbon Bed	Continuous	Once per minute

<sup>1</sup> For batch HMIWIs, record the charge per batch.

C. Before the new or revised operating parameters will be established, the Permittee shall comply with the following operating parameters established during the most recent stack tests (performed July/August 2014)\*:

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

I. HMIWI #1: Maximum and Minimum Operating Parameter Values

PARAMETER	UNITS	MAX VALUE	MIN VALUE
Charge Rate	lbs/hr	1432.9	
Secondary Temperature	deg F		1755.7
Absorber pH	pH units		5.57
Venturi Pressure Drop	in. w.c.		38.2
Venturi Recirc Rate	gpm		50.8
Stack Temperature	deg F	124.2	
Carbon Temperature	deg F	153.2	
SNCR Reagent	gph		0.58

II. HMIWI #2: Maximum and Minimum Operating Parameter Values

PARAMETER	UNITS	MAX VALUE	MIN VALUE
Charge Rate	lbs/hr	1434.8	
Secondary Temperature	deg F		1797.3
Absorber pH	pH units		5.95
Venturi Pressure Drop	in. w.c.		40.4
Venturi Recirc Rate	gpm		58.6
Stack Temperature	deg F	121.3	
Carbon Temperature	deg F	148.2	
SNCR Reagent	gph		0.72

\* Future new/revised parameter values shall be established based on the results of the most recent performance test demonstrating compliance with the applicable emission standards.

D. Pursuant to 35 IAC 229.150(d), operating parameter limits do not apply during performance tests.

ii. Compliance Method (Operating Parameters Requirements)

Monitoring

- A. All operating parameters shall be measured as a 3-hour rolling average (calculated each hour as a 3-hour rolling average of the previous 3 operating hours) at all times. For batch HMIWIs, the charge rate shall be measured on a per batch basis. Exceedance of specified operating parameter limits shall be considered violations of applicable emission limits as provided by 35 IAC 229.156, except as provided in 35 IAC 229.164.
- B. Pursuant to 35 IAC 229.150(b), following the date on which the initial performance test pursuant to 35 IAC 229.142(b) is completed, except as provided in 35 IAC 229.164, as HMIWI equipped with SNCR systems, operation of HMIWI unit above the maximum charge rate, below the minimum secondary

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

chamber temperature, and below the minimum reagent flow rate simultaneously shall constitute a violation of the NO<sub>x</sub> emissions limit.

- C. Pursuant to 35 IAC 229.150(c) and Construction Permit #11120048, as HMIWIs using carbon beds to comply with the emission limits under 35 IAC 229.125, HMIWI unit shall not operate above any applicable maximum or below any applicable minimum operating parameter value that has been established for the unit during testing. All operating parameters shall be measured as a 3-hour rolling average (calculated each hour as a 3-hour rolling average of the previous 3 operating hours) at all times. For batch HMIWIs, the charge rate shall be measured on a per batch basis. All operating parameters shall be measured as a 3-hour rolling average (calculated each hour as a 3-hour rolling average of the previous 3 operating hours) at all times. For batch HMIWIs, the charge rate shall be measured on a per batch basis. Exceedance of specified operating parameter limits shall be considered violations of applicable emission limits as provided by 35 IAC 229.156, except as provided in 35 IAC 229.164.
- D. Pursuant to 35 IAC 229.166(c), the Permittee shall comply with the following monitoring requirements:
  - I. Install, calibrate according to manufacturer's specifications, maintain, and operate devices or establish methods for monitoring the applicable maximum and minimum operating parameters so that these devices or methods measure and record values for these operating parameters at the frequencies indicated above at all times;
  - II. Install, calibrate according to manufacturer's specifications, maintain, and operate a device or establish a method for identifying the use of the bypass stack, including date, time, and duration of use;
  - III. If control equipment other than a dry scrubber followed by a fabric filter, a wet scrubber, a dry scrubber followed by a fabric filter and a wet scrubber, or a selective noncatalytic reduction system is used to comply with the applicable emissions limits under 35 IAC 229.125(c) as applicable, or Section 229.126(c) of this Part, install, calibrate according to manufacturer's specifications, maintain, and operate the equipment necessary to monitor the site-specific operating parameters developed and approved pursuant to 35 IAC 229.142(a) (5) or (b) (5).

Testing

See Condition 4.1(2) (b) (ii).

Recordkeeping

- E. Pursuant 35 IAC 229.182(3), the Permittee shall keep records of identification of any calendar days for which data on operating parameters have not been obtained, with an identification of the operating parameters not measured, reasons for not obtaining data, and a description of the corrective actions taken.
- F. Pursuant 35 IAC 229.182(5), the Permittee shall keep records of identification of calendar days for which data on emissions rates or operating parameters exceeded the applicable limits, with a description of the exceedences, reasons for such exceedences, and a description of the corrective actions taken;

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

- G. Pursuant to 35 IAC 229.182(2), the Permittee shall keep records of the most current values of the operating parameters identified above.
- H. Pursuant to 35 IAC 229.166(c)(4), the Permittee shall record monitoring data at all times during HMIWI operation, except during the periods of monitoring equipment malfunction, calibration, or repair. At a minimum, valid monitoring data shall be recorded for 75 percent of the operating hours per day for 90 percent of the operating days per calendar quarter that an HMIWI is combusting hospital waste or medical/infectious waste.
- I. Pursuant to 35 IAC 229.182(a)(4), the Permittee shall keep records of identification of any malfunction, including the calendar date, the time and duration, and a description of the malfunction and of the corrective action taken to remedy it.
- J. Pursuant to 35 IAC 229.182(a)(7), the Permittee shall keep records of calibration of any monitoring devices as required under 35 IAC 229.166(c).

f. i. Control Requirements

Control requirements established in Construction Permit #11120048: [T1]

- A. The carbon bed systems shall be designed and operated with two beds in series, with the second bed serving as a guard bed.
- B. The Permittee shall operate and maintain the carbon systems in accordance with written Operating And Maintenance Procedures developed by the Permittee, which procedures shall, at a minimum, address the following:
  - I. Replace each carbon bed or the carbon in each bed before it has reached the end of its useful life. For the replacement of carbon in the primary bed, the secondary bed may be rotated into the primary bed position and new carbon shall be used in the secondary bed position.
  - II. Use of the brand (i.e., manufacturer) and type of carbon used during the most recent performance test that demonstrated compliance with the mercury emission limit or, following 10-day notification of changing a different brand or type of carbon with equivalent or improved properties compared to the carbon used in the performance test.

ii. Compliance Method (Control Requirements)

Monitoring

- A. Pursuant to Construction Permit #11120048, the Permittee shall monitor the performance of the carbon beds in each carbon system as provided below, to ensure that the carbon in each bed has not reached the end of its useful life to control mercury emissions to at least the level needed to comply with the limit in 35 IAC 229.125(c).
  - I. Monitoring shall be conducted consistent with manufacturer's written specifications and recommendations.
  - II. Document the monitoring procedures in the Operating And Maintenance Procedures.
  - III. The Permittee shall operate instrumentation to measure the pressure drop across each carbon bed of each HMIWI, which data shall be

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

recorded at least once per operating week if data is not automatically recorded.

Testing

See Condition 4.1(2)(b)(ii).

Recordkeeping

- B. Pursuant to Construction Permit #11120048, the Permittee shall keep records of the performance monitoring.
- C. Pursuant to Construction Permit #11120048, the Permittee shall maintain the following records related to each carbon system:
  - I. A file or other records containing the following:
    - 1. The dimensions of each carbon bed and the capacity of each bed (pounds of carbon).
    - 2. The manufacturer's specifications for the activated carbon in the beds and recommendations for ensuring that the carbon beds do not reach the end of their useful life, with supporting documentation.
    - 3. The theoretical capacity of each bed for absorption of mercury and the theoretical operating life of each bed, with supporting data and calculations.
    - 4. The Operating And Maintenance Procedures that the Permittee is implementing for the systems, which procedures may incorporate procedures recommended by the manufacturer or carbon supplier.
  - II. Records for the cumulative amount of waste charged to each HMIWI, from the time that a new primary bed begins operation to the time that the primary bed is replaced (tons, compiled on a monthly basis).
  - III. Records for any measurements of mercury in the exhaust from each HMIWI as performed using handheld instrumentation or other technique other than performance testing, including the date and time of measurements, the persons conducting the measurements, the operating conditions of the HMIWI during measurements and identification of the measurement method, and the results of the measurements.

**g. i. Work Practice Requirements**

- A. Waste Management Requirements (35 IAC 229.180):

The owner or operator of any commercial HMIWI that accepts hospital waste or medical/infectious waste generated off-site shall:

- I. Provide hospital, medical or infectious waste customers with written information at least once a year concerning the availability of waste management practices for reducing the volume and toxicity of waste to be incinerated;
- II. Conduct training and education programs in waste segregation for each of the company's waste generator customers;

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

- III. Ensure that each waste generator customer prepares its own waste management plan that includes, at a minimum, the following elements:
1. Segregation of recyclable wastes such as paper products, glass, batteries and metals;
  2. Segregation of non-recyclable wastes such as polyvinyl chloride plastics, pharmaceutical waste, and mercury-containing waste; and
  3. Purchasing recycled or recyclable products.
- B. Pursuant to Section 39.5(7) (a) of the Act, the Permittee shall operate under addendum to the Waste Management Plan and restrict (ban) acceptance of the dental waste from its customers for further incineration. Such addendum ("Stericycle-Clinton Dental Waste Management Plan") and restrictions on the dental waste shall be implemented immediately after issuance of the modified CAAPP permit.
- C. Operator Training and Qualification Requirements (35 IAC 229.170):
- I. No HMIWI shall be operated unless a trained and qualified HMIWI operator, as specified below, is available on-site to operate or supervise the operation of the HMIWI.
  - II. To become a trained and qualified operator, a person shall complete a training program that, at a minimum, meets the criteria specified in subsection 35 IAC 229.170(c), pass the examination administered in accordance with 35 IAC 229.170(c) (2) and have either 6 months experience as an HMIWI operator or have completed 2 burn cycles under the observation of 2 trained and qualified HMIWI operators.
  - III. Operator qualification is valid from the date on which the examination specified in 35 IAC 229.170(c) (2) is passed, or the completion of the experience requirements set forth in subsection 35 IAC 229.170(b), whichever is later.
  - IV. In order for an operator that has been qualified in accordance with 35 IAC 229.170(b) to maintain the necessary qualification status, the operator shall:
    1. Complete and pass an annual review course of at least 4 hours in length that, at a minimum, covers the following subjects:
      - An update of applicable regulations;
      - Proper incinerator operation, including startup and shutdown procedures;
      - Proper incinerator inspection and maintenance;
      - Responses to malfunctions and conditions that may lead to malfunction; and
      - A discussion of operating problems encountered by attendees.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

2. If an operator fails to either take or to complete and pass the annual review course, the operator's qualification will lapse.
3. If the operator's qualification lapses for less than 3 years, qualification may be reinstated by taking and passing the annual review course, as provided under 35 IAC 229.170 (e) (1).
4. If there is a 3 year or greater lapse in an operator's qualification, then the operator shall take and pass an operator training course, as provided for under subsection (c) of this Section, in order to reinstate the qualification.

ii. Compliance Method (Work Practice Requirements)

Recordkeeping

- A. Pursuant to 35 IAC 229.172(a), the Permittee shall maintain the following information on-site for the use and reference of HMIWI operators:
  - I. A summary of the applicable requirements under 35 IAC Part 229;
  - II. A description of basic combustion theory applicable to HMIWIs;
  - III. Procedures for receiving, handling, and charging waste;
  - IV. Procedures for startup and shutdown of the HMIWI;
  - V. Procedures for maintaining proper combustion air supply levels;
  - VI. Procedures for operating the HMIWI and associated air pollution control systems within the standards established under this Part;
  - VII. Procedures for responding to periodic malfunction or conditions that may lead to malfunction;
  - VIII. Procedures for monitoring HMIWI emissions;
  - IX. Recordkeeping and reporting procedures; and
  - X. Procedures for handling ash.
- B. Pursuant to 35 IAC 229.172(b), the Permittee shall establish a program for the annual review of all of the information listed under 35 IAC 229.172(a) by all employees that operate an HMIWI, with an annual review of the information specified above.
- C. All this information shall be kept on site and readily available to all HMIWI operators.
- D. Pursuant to 35 IAC 229.180(b), paper or electronic copies of the materials disseminated under 35 IAC 229.180 shall be made available to the Illinois EPA.
- E. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep on site "Stericycle-Clinton Dental Waste Management Plan" for its proper implementation by the source's staff.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

h. i. Production and Operating Requirements

A. Pursuant to Section 39.5(7) (a) of the Act and Construction Permits #87070016 and #89070019, the total amount of waste incinerated in each HMIWI shall not exceed 1,500 lbs/hr and the total annual combined amount of waste for unit #1 and #2 shall not exceed 13,140 tons/yr. [T1]

ii. Compliance Method (Operating and Production Requirements)

Monitoring

A. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total). [T1]

Recordkeeping

B. Records of hourly charge rate for each HMIWI and annual total charge rate for both HMIWI.

**3. Non-Applicability Determinations**

a. HMIWI are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because applicable standards and requirements established in 35 IAC Part 229 have been created based on the federal NSPS "Emission Guidelines and Compliance Times for HMIWI" promulgated after 1990.

**4. Other Requirements**

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition

**5. Reporting Requirements**

The Permittee shall submit the following information pursuant to Section 39.5(7) (f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

i. A. Pursuant to Section 39.5(7) (f) (ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:

I. Requirements in Conditions 4.1(2) (a) through 4.1(2) (h).

B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).

iii. The deviation reports shall contain at a minimum the following information:

A. Date and time of the deviation.

B. Emission unit(s) and/or operation involved.

C. The duration of the event.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

- D. Probable cause of the deviation.
- E. Corrective actions or preventative measures taken.

**b. Reporting Required by 35 IAC 229.184(c) (2), (c) (3) and (d)**

Within 60 days following the end of the reporting period (June 30 of each year and December 31 of each year), the Permittee shall submit the semiannual reports by addressing the following:

- i. The values for site-specific operating parameters established pursuant to 35 IAC 229.142(b) (3) and (4), as applicable;
- ii. The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter, recorded pursuant to 35 IAC 229.142(a) (4) and (5), or 35 IAC 229.142(b) (3) and (4);
- iii. The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded pursuant to 35 IAC 229.142(a) (4) and (5) or 35 IAC 229.142(b) (3) or (4), as applicable, in order to provide the IEPA with a summary of the performance of the affected facility over a 2-year period;
- iv. Any information recorded pursuant to 35 IAC 229.182(a) (3) through (5) for the calendar year being reported and for the calendar year preceding the year being reported;
- v. If no exceedences or malfunctions were recorded under 35 IAC 229.182(a) (3) through (a) (5), a statement that no exceedences occurred during the reporting period; and
- vi. Any use of the bypass stack, the duration of use, the reason for malfunction, and the corrective actions taken.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

**Section 5 - Additional Title I Requirements**

This Section is reserved for Title I requirements not specified in Sections 3 or 4. As of the date of issuance of this permit, there are no Title I requirements that need to be separately addressed in this Section.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

## Section 6 - Insignificant Activities Requirements

### 1. Insignificant Activities Subject to Specific Regulations

Pursuant to 35 IAC 201.210 and 201.211, the following activities at the source constitute insignificant activities. Pursuant to Sections 9.1(d) and 39.5(6)(a) of the Act, the insignificant activities are subject to specific standards promulgated pursuant to Sections 111, 112, 165, or 173 of the Clean Air Act. The Permittee shall comply with the following applicable requirements:

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
Emergency generator <sup>1</sup>	1	35 IAC 201.210(a)(16)

#### a. Applicable Requirements

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements when required by the indicated subpart in addition to the applicable requirements in Condition 6.4:

#### i. New Source Performance Standard Requirements (NSPS) - Emergency Generator

- A. Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60 Subpart IIII)
- I. The engines shall meet the applicable general provisions of 40 CFR 60 Subpart A. See Condition 7.2(a).
- II. The engines shall comply with the applicable emission limitations and operating limitations, fuel requirements, general compliance requirements, testing and initial compliance requirements, continuous compliance requirements, notifications, reports, and records and other requirements and information of 40 CFR 60 Subpart IIII.

### 2. Insignificant Activities in 35 IAC 201.210(a)

In addition to any insignificant activities identified in Condition 6.1, the following additional activities at the source constitute insignificant activities pursuant to 35 IAC 201.210 and 201.211:

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
Direct combustion units used for comfort heating and fuel combustion emission units as further detailed in 35 IAC 201.210(a)(4).	12	35 IAC 201.210(a)(4)
Storage tanks of virgin or rerefined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oil.	1	35 IAC 201.210(a)(11)

### 3. Insignificant Activities in 35 IAC 201.210(b)

Pursuant to 35 IAC 201.210, the source has identified insignificant activities as listed in 35 IAC 201.210(b)(1) through (28) as being present at the source. The source is not required to individually list the activities.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

**4. Applicable Requirements**

Insignificant activities in Conditions 6.1 and 6.2 are subject to the following general regulatory limits notwithstanding status as insignificant activities. The Permittee shall comply with the following requirements, as applicable:

- a. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as provided in 35 IAC 212.123(b).
- b. Pursuant to 35 IAC 212.321 (see Condition 7.2(a)), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceed the allowable emission rates specified 35 IAC 212.321 or 212.322 and 35 IAC Part 266.
- c. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm, except as provided in 35 IAC Part 214.
- d. Pursuant to 35 IAC 215.301, no person shall cause or allow the discharge of more than 8 lbs/hr of organic material into the atmosphere from any emission source, except as provided in 35 IAC 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of 35 IAC 215 Subpart K shall apply only to photochemically reactive material.
- e. Pursuant to 35 IAC 215.122(b), no person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 250 gal, unless such tank is equipped with a permanent submerged loading pipe, submerged fill, or an equivalent device approved by the IEPA according to 35 IAC Part 201 or unless such tank is a pressure tank as described in 35 IAC 215.121(a) or is fitted with a recovery system as described in 35 IAC 215.121(b)(2). Exception as provided in 35 IAC 215.122(c): If no odor nuisance exists the limitations of 35 IAC 215.122 shall only apply to the loading of volatile organic liquid with a vapor pressure of 2.5 psia or greater at 70°F.

**5. Compliance Method**

Pursuant to Section 39.5(7)(b) of the Act, the source shall maintain records of the following items for the insignificant activities in Conditions 6.1 and 6.2:

- a. List of all insignificant activities, including insignificant activities added as specified in Condition 6.6, the categories the insignificant activities fall under, and supporting calculations as needed for any insignificant activities listed in 35 IAC 201.210(a)(1) through (3).
- b. Potential to emit emission calculations before any air pollution control device for any insignificant activities listed in 35 IAC 201.210(a)(1) through (3).

**6. Notification Requirements for Insignificant Activities**

The source shall notify the IEPA accordingly to the addition of insignificant activities:

**a. Notification 7 Days in Advance**

- i. Pursuant to 35 IAC 201.212(b), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(1) and 201.211 and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required.

Stericycle, Inc.  
 I.D. No.: 039808AAB  
 Permit No.: 99110103

Date Received: 03-22-2013  
 Date Issued: 06-24-2015  
 Date Revision Issued: TBD

Addresses are included in Attachment 3. The notification shall include the following pursuant to 35 IAC 201.211(b):

- A. A description of the emission unit including the function and expected operating schedule of the unit.
  - B. A description of any air pollution control equipment or control measures associated with the emission unit.
  - C. The emissions of regulated air pollutants in lb/hr and ton/yr.
  - D. The means by which emissions were determined or estimated.
  - E. The estimated number of such emission units at the source.
  - F. Other information upon which the applicant relies to support treatment of such emission unit as an insignificant activity.
- ii. Pursuant to 35 IAC 201.212(b), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(2) through 201.210(a)(18) and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. Addresses are included in Attachment 3.
  - iii. Pursuant to Sections 39.5(12)(a)(i)(b) and 39.5(12)(b)(iii) of the Act, the permit shield described in Section 39.5(7)(j) of the Act (see Condition 2.7) shall not apply to any addition of an insignificant activity noted above.

**b. Notification Required at Renewal**

Pursuant to 35 IAC 201.212(a) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a) and is currently identified in Conditions 6.1 or 6.2, a notification is not required until the renewal of this permit.

**c. Notification Not Required**

Pursuant to 35 IAC 201.212(c) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(b) as describe in Condition 6.3, a notification is not required.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

## Section 7 - Other Requirements

### 1. Testing

- a. Pursuant to Section 39.5(7) (a) of the Act, a written test protocol shall be submitted at least sixty (60) days prior to the actual date of testing, unless it is required otherwise in applicable state or federal statutes. The IEPA may at the discretion of the Compliance Section Manager (or designee) accept protocol less than 60 days prior to testing provided it does not interfere with the IEPA's ability to review and comment on the protocol and does not deviate from the applicable state or federal statutes. The protocol shall be submitted to the IEPA, Compliance Section and IEPA, Stack Test Specialist for its review. Addresses are included in Attachment 3. This protocol shall describe the specific procedures for testing, including as a minimum:
  - i. The name and identification of the emission unit(s) being tested.
  - ii. Purpose of the test, i.e., permit condition requirement, IEPA or USEPA requesting test.
  - iii. The person(s) who will be performing sampling and analysis and their experience with similar tests.
  - iv. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the emission unit and any control equipment will be determined.
  - v. The specific determinations of emissions and operation which are intended to be made, including sampling and monitoring locations.
  - vi. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods. Include if emission tests averaging of 35 IAC 283 will be used.
  - vii. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
  - viii. Any proposed use of an alternative test method, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
  - ix. Sampling of materials, QA/QC procedures, inspections, etc.
- b. The IEPA, Compliance Section shall be notified prior to these tests to enable the IEPA to observe these tests pursuant to Section 39.7(a) of the Act as follows:
  - i. Notification of the expected date of testing shall be submitted in writing a minimum of thirty (30) days prior to the expected test date, unless it is required otherwise in applicable state or federal statutes.
  - ii. Notification of the actual date and expected time of testing shall be submitted in writing a minimum of five (5) working days prior to the actual date of the test. The IEPA may at its discretion of the Compliance Section Manager (or designee) accept notifications with shorter advance notice provided such notifications will not interfere with the IEPA's ability to observe testing.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

- c. Copies of the Final Report(s) for these tests shall be submitted to the IEPA, Compliance Section within fourteen (14) days after the test results are compiled and finalized but no later than ninety (90) days after completion of the test, unless it is required otherwise in applicable state or federal statutes or the IEPA may at the discretion of the Compliance Section Manager (or designee) an alternative date is agreed upon in advance pursuant to Section 39.7(a) of the Act. The Final Report shall include as a minimum:
- i. General information including emission unit(s) tested.
  - ii. A summary of results.
  - iii. Discussion of conditions during each test run (malfunction/breakdown, startup/shutdown, abnormal processing, etc.).
  - iv. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.
  - v. Detailed description of test conditions, including:
    - A. Process information, i.e., mode(s) of operation, process rate, e.g. fuel or raw material consumption.
    - B. Control equipment information, i.e., equipment condition and operating parameters during testing.
    - C. A discussion of any preparatory actions taken, i.e., inspections, maintenance and repair.
  - vi. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.
  - vii. An explanation of any discrepancies among individual tests or anomalous data.
  - viii. Results of the sampling of materials, QA/QC procedures, inspections, etc.
  - ix. Discussion of whether protocol was followed and description of any changes to the protocol if any occurred.
  - x. Demonstration of compliance showing whether test results are in compliance with applicable state or federal statutes.
- d. Copies of all test reports and other test related documentation shall be kept on site as required by Condition 2.5(b) pursuant to Section 39.5(7)(e)(ii) of the Act.

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

**2. 40 CFR 60 Subpart A Requirements (NSPS)**

**a. 40 CFR 60 Subpart A and IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

Pursuant to 40 CFR 60 Subparts A and IIII, the Permittee shall comply with the following applicable General Provisions as indicated:

General Provisions citation	Subject of citation	Applies to subpart	Explanation
\$60.1	General applicability of the General Provisions	Yes	
\$60.2	Definitions	Yes	Additional terms defined in §60.4219.
\$60.3	Units and abbreviations	Yes	
\$60.4	Address	Yes	
\$60.5	Determination of construction or modification	Yes	
\$60.6	Review of plans	Yes	
\$60.7	Notification and Recordkeeping	Yes	Except that §60.7 only applies as specified in §60.4214 (a).
\$60.8	Performance tests	Yes	Except that §60.8 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder and engines that are not certified.
\$60.9	Availability of information	Yes	
\$60.10	State Authority	Yes	
\$60.11	Compliance with standards and maintenance requirements	No	Requirements are specified in Subpart IIII.
\$60.12	Circumvention	Yes	
\$60.13	Monitoring requirements	Yes	Except that §60.13 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder.
\$60.14	Modification	Yes	
\$60.15	Reconstruction	Yes	
\$60.16	Priority list	Yes	
\$60.17	Incorporations by reference	Yes	
\$60.18	General control device requirements	No	
\$60.19	General notification and reporting requirements	Yes	

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

## Section 8 - State Only Requirements

### 1. Permitted Emissions for Fees

The annual emissions from the source for purposes of "Duties to Pay Fees" of Condition 2.3(e), not considering insignificant activities as addressed by Section 6, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. The Permittee shall maintain records with supporting calculations of how the annual emissions for fee purposes were calculated. This Condition is set for the purpose of establishing fees and is not federally enforceable. See Section 39.5(18) of the Act.

<i>Pollutant</i>		<i>Tons/Year</i>
Volatile Organic Material	(VOM)	0.92
Sulfur Dioxide	(SO <sub>2</sub> )	1.98
Particulate Matter	(PM)	2.08
Nitrogen Oxides	(NO <sub>x</sub> )	22.12
HAP, not included in VOM or PM	(HAP)	0.98
	Total	28.08

Stericycle, Inc.  
 I.D. No.: 039808AAB  
 Permit No.: 99110103

Date Received: 03-22-2013  
 Date Issued: 06-24-2015  
 Date Revision Issued: TBD

**Attachment 1 - List of Emission Units at This Source**

<i>Section</i>	<i>Emission Units</i>	<i>Description</i>
4.1	Commercial HMIWI	Incineration of off-site medical generated waste

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

## Attachment 2 - Acronyms and Abbreviations

acfm	Actual cubic feet per minute
ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment trading unit
BACT	Best Available Control Technology
BAT	Best Available Technology
Btu	British Thermal Units
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAIR	Clean Air Interstate Rule
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CISWI	Commercial Industrial Solid Waste Incinerator
CO	Carbon monoxide
CO <sub>2</sub>	Carbon dioxide
COMS	Continuous Opacity Monitoring System
CPMS	Continuous Parameter Monitoring System
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
ERMS	Emissions Reduction Market System
°F	Degrees Fahrenheit
GHG	Green house gas
GACT	Generally Acceptable Control Technology
gr	Grains
HAP	Hazardous air pollutant
Hg	Mercury
HMIWI	Hospital medical infectious waste incinerator
hp	Horsepower
hr	Hour
H <sub>2</sub> S	Hydrogen sulfide
I.D. No.	Identification number of source, assigned by IEPA
IAC	Illinois Administrative Code
ILCS	Illinois Compiled Statutes
IEPA	Illinois Environmental Protection Agency
kw	Kilowatts
LAER	Lowest Achievable Emission Rate

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

lbs	Pound
m	Meter
MACT	Maximum Achievable Control Technology
M	Thousand
MM	Million
mos	Month
MSDS	Material Safety Data Sheet
MSSCAM	Major Stationary Sources Construction and Modification (Non-attainment New Source Review)
MW	Megawatts
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	Nitrogen oxides
NSPS	New Source Performance Standards
NSR	New Source Review
PB	Lead
PEMS	Predictive Emissions Monitoring System
PM	Particulate matter
PM <sub>10</sub>	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
PM <sub>2.5</sub>	Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 microns as measured by applicable test or monitoring methods
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
PSD	Prevention of Significant Deterioration
PSEU	Pollutant-Specific Emission Unit
psia	Pounds per square inch absolute
PTE	Potential to emit
RACT	Reasonable Available Control Technology
RMP	Risk Management Plan
scf	Standard cubic feet
SCR	Selective catalytic reduction
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile organic material

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

Attachment 3 - Contact and Reporting Addresses

<p style="text-align: center;">IEPA Compliance Section</p> <p style="text-align: center;">IEPA Stack Test Specialist</p> <p style="text-align: center;">IEPA Air Quality Planning Section</p> <p style="text-align: center;">IEPA Air Regional Field Operations Regional Office #3</p> <p style="text-align: center;">IEPA Permit Section</p>	<p>Illinois EPA, Bureau of Air Compliance &amp; Enforcement Section (MC 40) 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276</p> <p>Phone No.: 217/782-2113</p>
	<p>Illinois EPA, Bureau of Air Compliance Section Source Monitoring - Third Floor 9511 Harrison Street Des Plaines, Illinois 60016</p> <p>Phone No.: 847/294-4000</p>
	<p>Illinois EPA, Bureau of Air Air Quality Planning Section (MC 39) 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276</p> <p>Phone No.: 217/782-2113</p>
	<p>Illinois EPA, Bureau of Air Regional Office #3 2009 Mall Street Collinsville, Illinois 62234</p> <p>Phone No.: 618/346-5120</p>
	<p>Illinois EPA, Bureau of Air Permit Section (MC 11) 1021 North Grand Avenue East P.O. Box 19506 Springfield, Illinois 62794-9506</p> <p>Phone No.: 217/785-1705</p>
<p style="text-align: center;">USEPA Region 5 - Air Branch</p>	<p>USEPA (AR - 17J) Air and Radiation Division 77 West Jackson Boulevard Chicago, Illinois 60604</p> <p>Phone No.: 312/353-2000</p>

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD

**Attachment 4 - Example Certification by a Responsible Official**

**SIGNATURE BLOCK**

NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED AS INCOMPLETE.

I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE. ANY PERSON WHO KNOWINGLY MAKES A FALSE, FICTITIOUS, OR FRAUDULENT MATERIAL STATEMENT, ORALLY OR IN WRITING, TO THE ILLINOIS EPA COMMITS A CLASS 4 FELONY. A SECOND OR SUBSEQUENT OFFENSE AFTER CONVICTION IS A CLASS 3 FELONY. (415 ILCS 5/44(H))

AUTHORIZED SIGNATURE:

BY:

\_\_\_\_\_

\_\_\_\_\_

AUTHORIZED SIGNATURE

TITLE OF SIGNATORY

\_\_\_\_\_

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

TYPED OR PRINTED NAME OF SIGNATORY

DATE

Stericycle, Inc.  
I.D. No.: 039808AAB  
Permit No.: 99110103

Date Received: 03-22-2013  
Date Issued: 06-24-2015  
Date Revision Issued: TBD