

READY MIXED CONCRETE ASSOCIATION  
OF ONTARIO



**AUDIT and CHECK LIST**

**TO BE COMPLETED BY AUDITING ENGINEER (PLEASE PRINT)**

NAME OF CONCRETE COMPANY

NAME OF PLANT

STREET OR HIGHWAY LOCATION OF PLANT

CONTACT PERSON

PHONE                      EMAIL

NAME OF CERTIFYING ENGINEER

DATE OF INSPECTION

**FOR RMCAO USE ONLY**

NEW EXPIRY DATE

	<u>Date</u>	<u>Initial</u>
MAILED	_____	_____
RECEIVED	_____	_____
CHECKED	_____	_____
1 <sup>ST</sup> CERT. MAILED	_____	_____
2 <sup>ND</sup> CERT. MAILED	_____	_____
CONTACT	_____	_____



## **FORWARD**

### **ECO CERTIFIED Concrete Facility**

This **ECO CERTIFIED Concrete Facility** program has been developed by the Sustainable Development and Environment Committee of the Ready Mixed Concrete Association of Ontario (RMCAO) in consultation with the Ontario Ministry of Environment<sup>1</sup>.

This **ECO CERTIFIED Concrete Facility** program is designed to provide owners and customers with the highest degree of assurance that the concrete facility, company and products they have selected to supply their project, address sound and responsible Environmental and Sustainable Development Facilities management and operations, and that manufacturing practices and protocols support their choice of Responsible Material Procurement. It identifies Environmental and Sustainable Development stewardship and responsibility of the facility's processes following LEED rating system and categories to minimize the environmental footprint.

This **ECO CERTIFIED Concrete Facility** program may be used in conjunction with the Canadian Ready-Mixed Concrete Association's publication – *Recommended Guideline for Environmental Practices for Ready Mixed Concrete Operations in Canada*.

This program can assist the concrete facility with improved responsibilities and efficiencies, community goodwill and management of environmental liability and risk.

All **ECO CERTIFIED Concrete Facilities** will be posted on the RMCAO website – [www.rmcao.org](http://www.rmcao.org).

FOR FURTHER INFORMATION, PLEASE CONTACT:

**READY MIXED CONCRETE ASSOCIATION OF ONTARIO**

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The information contained in this Audit and Check List is believed to be true and accurate. The RMCAO does not warrant any information and takes no responsibility for the accuracy of the information.

## **INSTRUCTIONS for AUDIT and CHECK LIST**

### **EXECUTIVE SUMMARY**

1. This **ECO CERTIFIED Concrete Facility** program is available to members in good standing of the RMCAO. It provides guidance to ready mixed concrete producers in qualifying their plants for the **ECO CERTIFIED Concrete Facility**. This Check List is intended to assist the examining Engineer in performing the plant inspection accurately. The Producer's plant staff should assist the Engineer to expedite their inspections, and to correct any deficiencies. The plant must be operating in order to complete the Audit.
2. To apply for the **ECO CERTIFIED Concrete Facility** program, all minimum compliance items must be met and a minimum number of points must be obtained in each LEED type category in order to have the application considered. Care has been taken to identify those areas where impacts to the environment are minimized and where all relevant conservation practices and protocols are optimized.
3. A qualified registered Professional Engineer in the Province of Ontario must inspect or supervise the inspection of all facilities covered by the Audit and Check List and attach his/her seal to the completed form. A list of these approved Engineers can be found at [www.rmcao.org](http://www.rmcao.org).
4. In order to complete this Audit and Check List, the auditing Engineer must meet the following RMCAO requirements:
  - a. Be a registered Professional Engineer in the Province of Ontario,
  - b. Be a member currently in good standing with the Professional Engineers Ontario (PEO),
  - c. Have successfully completed and passed the RMCAO Engineers' Certification Course as offered by the RMCAO within the previous 5 years,
  - d. Be recognized as an independent third party auditor currently listed on the RMCAO's Approved Auditors' List.

*The following people are specifically excluded from becoming qualified third party engineers for RMCAO plant certification inspection purposes:*

- a. *Direct employees of the concrete producer (this includes employees of other divisions of the company),*
  - b. *Persons working for companies directly affiliated with the concrete producer,*
  - c. *Employees of all raw material or equipment suppliers providing materials or equipment used in the production of concrete.*
5. An **ECO CERTIFIED Concrete Facility "Certificate"** will be issued by the administrator (RMCAO) upon receipt of a properly executed Audit and Check List indicating that the Audit requirements have been accepted, provided that all conditions of membership, certification and application are met.
  6. The Engineer must examine every item on the Audit and Check List for conformance and indicate the appropriate symbol in the space provided. A Certificate cannot be issued to a plant that does not meet all applicable items in the Audit and Check List.
  7. Once the Engineer has completed the Audit & Check List they must initial the bottom right corner of pages indicated in booklet to confirm that all applicable sections have been reviewed and that the information is correct.
  8. To validate the Engineer's Conformance Agreement, the inspecting Engineer must affix his/her signature and seal.
  9. To validate the Owner's Conformance Agreement, the signing authority for the Active Producer company must sign the agreement, attesting that they will maintain the facilities in compliance with the Audit requirements at all times. RMCAO also retains the rights to conduct random inspections of concrete production facilities and to conduct inspections of specific facilities in response to complaints received. RMCAO reserves the right to accept or reject any applications to participate in our third party plant inspection program. Failure to allow for these inspections to take place may result in a loss of the concrete producer's "Certificate".

## TERMS and CONDITIONS

1. **Conformance Agreements:** Conformance with the requirements of the *Audit and Check List* must be assured. The completion of the Engineer's Conformance Agreement, validated by the signature and seal of the inspecting Engineer and the completion of the Owners' Conformance Agreement validated by the signature of the signing authority of the Owner (Company), will make the plant eligible for an **ECO CERTIFIED Concrete Facility "Certificate"**.
2. **ECO CERTIFIED Concrete Facility Certification:**
  - a. The successfully completed Audit and Check List shall be valid for a period of two (2) years from the plant's anniversary date.
  - b. The *Certificate* becomes invalid upon change of ownership of the plant.
  - c. The *Certificate* may be revoked at the sole discretion of the RMCAO.
  - d. The *Certificate* shall be valid for a period of one (1) year (renewable).
  - e. All past and current documentation shall be available for inspection.
3. **Mid-Term Document Audit:** While the Audit and Check List is valid for a period of up to two (2) years, the **ECO CERTIFIED Concrete Facility "Certificate"** is only valid for a period of one (1) year. Prior to the issue of a Certificate for the second year, the certificate holder must supply the following information to the Association:
  - a. Updated copies of CofA's (if applicable)
  - b. Identify any outstanding MOE issues or orders at that facility
4. All operating plants belonging to the Company shall hold a valid RMCAO "Production Facilities" Certification.
5. **Non-Conformance** with these requirements may result in another full Audit process carried out by an RMCAO approved third-party engineer at the expense of the concrete company, or loss of Certification of the concrete facility (the above requirements do not apply to any plant that is closed). Re-application is subject to the terms and conditions of RMCAO. The **ECO CERTIFIED Concrete Facility "Certificate"** may be revoked at any time for reasons of non-compliance with the **ECO CERTIFIED Concrete Facility** program, RMCAO Production Facilities certification, RMCAO Best Practices, RMCAO By-Laws and/or failure to meet applicable federal, provincial and municipal environmental regulations.
6. The applicant shall operate according to the RMCAO Best Management Practices, directions and policies as set from time to time such as, but not limited to, No-Customer Materials, Intellectual Property Rights and JOB SAFE.

**SUSTAINABLE SITES – SS**

**1 FACILITY INFORMATION AND ENVIRONMENTAL COMPLIANCE REQUIREMENTS**

**1.1 Overview of Ready Mixed Concrete Operations**

**1.1.1 Company Information**

Company Name: \_\_\_\_\_

Plant Address/Location: \_\_\_\_\_

GPS coordinates: \_\_\_\_\_

Plant Description as follows: ✓

BATCH → TRUCK MIXER.....

BATCH → STATIONARY MIXER → TRUCK MIXER.....

BATCH → STATIONARY MIXER → AGITATING, NON- AGITATING UNIT .....

MOBILE MIX.....

**1.1.2 Facility Contact Person**

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Assessors: \_\_\_\_\_

Assessment Date: \_\_\_\_\_

Reviewed By: \_\_\_\_\_

Date: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

**1.2 Facility Information**

Attach Site Plan Date: \_\_\_\_\_

**YES** **NO**

**1.3 Environmental Administration**

Does the plant have the following?

- Company Environmental Policy
- Current Spills Response Procedure
- Current Spills Prevention Plan
- Operation and Site Maintenance pollution control equipment manual

Does the facility train personnel for all the above items?



**WATER EFFICIENCY - WE**

**2 WATER MANAGEMENT**

**2.1 Water Use**

**YES NO**

Does facility quantify annual potable water usage?

Is facility able to demonstrate water use ratio (potable/process water) per cubic metre of concrete used annually?

What is your water use ratio? \_\_\_\_\_

**2.2 Manufacturing and Operations**

**2.2.1 Truck Wash-Down after Loading**

Is the water being directed and captured?

Is the water being recycled?  
Describe process \_\_\_\_\_

Is recycled water being used in this process?

**2.2.2 Truck Washout (end of day) at Facility**

Is the water being directed and captured?

Is the water being recycled?  
Describe process \_\_\_\_\_

Is recycled water being used in this process?

**2.2.3 Chemical Washing of Trucks at Plant**

Is the chemical solution washing of trucks directed and captured?

Is the water being recycled?  
Describe process \_\_\_\_\_

Are the chemicals environmentally friendly?

Is recycled water being used in this process?

**2.2.4 Boiler Blow-Down Water for Production of Steam for Heating Materials**

Is the water being directed and captured?

Is the water being recycled?  
Describe process \_\_\_\_\_

**2.2.5 Cooling Aggregates**

Are the aggregate piles stored on paved areas?

Is the water being recycled?  
Describe process \_\_\_\_\_

Is recycled water being used in this process?

	YES	NO
<b>2.2.6 Slurry and Process Water</b>		
Is Slurry and/or Process Water being used in manufacturing process?	<input type="checkbox"/>	<input type="checkbox"/>
<b>2.2.7 Water Conservation</b>		
Are the following water conservation measures used?:		
• are hose shutoff valves or nozzles used for truck tank fill?	<input type="checkbox"/>	<input type="checkbox"/>
• are small diameter hoses used?	<input type="checkbox"/>	<input type="checkbox"/>
• are flow control devices used on water supply system?	<input type="checkbox"/>	<input type="checkbox"/>
• are employees trained in water conservation?	<input type="checkbox"/>	<input type="checkbox"/>
Describe _____		
• is Dry Wash (i.e. dry aggregate) used?	<input type="checkbox"/>	<input type="checkbox"/>
• are multiple small volume rinses used for drum washout?	<input type="checkbox"/>	<input type="checkbox"/>
Is the Process Water recycled into the mix?	<input type="checkbox"/>	<input type="checkbox"/>
Is there zero discharge from your site?	<input type="checkbox"/>	<input type="checkbox"/>
<b>2.3 Stormwater Management</b>		
Is all Stormwater flowing through process areas (i.e. washouts, loading points sludge area, waste concrete piles, slump racks, or other high pH areas) captured and recycled?	<input type="checkbox"/>	<input type="checkbox"/>
Is there a Stormwater Management Plan in place?	<input type="checkbox"/>	<input type="checkbox"/>
<b>TOTAL SECTION 2</b>		____ / 28

**MATERIALS AND RESOURCES - MR**

**3 MANUFACTURING**

	YES	NO
<b>3.1 Materials Reduction</b>		
Does the facility have practices to reduce:		
• total amount of potable water required to manufacture concrete by:	<input type="checkbox"/>	<input type="checkbox"/>
- water reducing admixtures – set, mid range, high range, VMA		
- contain and reuse waste (non-potable) water as wash water		
- contain and recycle slurry or waste water in manufacturing process		
• total amount of new aggregates by using crushed concrete	<input type="checkbox"/>	<input type="checkbox"/>
- aggregates to reduce natural resource consumption, transportation issues, truck emissions and traffic congestion		
• the carbon footprint by reducing total amount of Portland cement	<input type="checkbox"/>	<input type="checkbox"/>
- use SCMs such as fly ash, slag and/or silica fume		
▪ normal replacement – 10% to 35%		
▪ High Volume SCM 1, 2 as per CSA A23.1-04 8.8.1		
<b>3.2 Delivery</b>		
Does the facility have a policy to:		
• wash truck before leaving plant	<input type="checkbox"/>	<input type="checkbox"/>
• washout into bin on-site (or contractor-approved environmental area)	<input type="checkbox"/>	<input type="checkbox"/>
Does the facility:		
• have any composite concrete mixer drums to reduce Gross Vehicle Weight (GVW), transport and fossil fuel usage	<input type="checkbox"/>	<input type="checkbox"/>
<b>3.3 Returned Concrete Solid Materials Management</b>		
Is returned concrete suitably contained at the production facility before being processed?	<input type="checkbox"/>	<input type="checkbox"/>

Is returned concrete being treated by one or more of the following methods? YES NO

- Hydration Stabilizing Chemicals (i.e. admixtures)
- Reclaimed (source separated reclaimers)
- Recycled (i.e. blocks, crushing, paving)

Are manufacturers/suppliers contacted for removal of solid waste material whenever possible? (i.e. lubricants, tires, batteries)

Are solid waste materials stored in, or moved to a suitable area?

**3.4 Sludge/Returned Concrete**

Are adequate containment facilities available for sludge from the process water systems? (i.e. are materials adequately contained and removed from the site if required?)

**3.5 Waste Chemical Management**

**3.5.1 Storage**

Does the site have proper storage (i.e. containment systems, etc.) for all chemicals and waste chemicals?

Are storage tanks in good condition?

Are visible pipes regularly visually inspected?

Is there a Bulk Storage Tank inventory? (see below for more information)

No incompatible chemicals stored in same containment area as per MSDS advisory

**3.5.2 Spills**

Does the site have an emergency "Spills Kit"?

Location\_\_\_\_\_

**3.5.3 Subject Waste Registration**

Are all subject waste chemicals classified and registered in accordance with Ont. Reg. 347?

TOTAL SECTION 3 \_\_\_\_\_ / 20

**Bulk Storage Tanks – Information Only**

A Bulk Storage Tank Inventory plan may include the following:

Tank #	Product	Above/Below Ground	Age [Yrs]	Capacity [Litres]	Type* [S,P,F,SS]	Cathodic Protection?	Cathodic Protection Checked?
1							
2							
3							
4							
5							

\* S = Steel    P = Plastic    F = Fibreglass    SS = Stainless Steel

**4 CHEMICAL MANAGEMENT**

**4.1 Chemical Storage**

Indicate: Y = Yes N = No N/A = Not Applicable

	Gasoline*	Diesel*	Waste Oil*	Fuel Oil*	Oil/* Lubricants	Acids	Solvents*	Anti-Freeze	Concrete Admix	Requirements Met*** Y / N / N/A
1. Bulk storage tanks are corrosion resistant										
2. Bulk storage area is impact protected										
3. Bulk storage tamper resistant (i.e. locked)										
4. Secondary containment of adequate volume and soundly constructed**										
5. Bulk storage inventory control										
6. Overflow protection systems are in place (i.e. gravity fed systems with back up shutoff valves)										
7. All tanks labelled clearly with WHMIS labels with MSDS available upon request										
8. Cathodic Protection (where applicable)										

\* Flammable liquids

\*\* Plugs must be properly installed and in good condition, etc.

\*\*\* Requirements can not be met with any "No" responses in any row.

**TOTAL SECTION 4** \_\_\_\_ / 8

**ENERGY AND ATMOSPHERE - EA**

**5 AIR QUALITY MANAGEMENT**

<b>5.1 Air Management</b>	<b>YES</b>	<b>NO</b>
<b>5.1.1 Baghouse</b>		
Is maintenance schedule in place for bag houses? <i>If applies, how often maintained?</i> _____	<input type="checkbox"/>	<input type="checkbox"/>
Are maintenance activities recorded?	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.1.2 Batch Plant</b>		
Is batch point enclosed (i.e. 2 sides + roof)?	<input type="checkbox"/>	<input type="checkbox"/>
Are dust control measures being employed?		
• water spray	<input type="checkbox"/>	<input type="checkbox"/>
• collection and filter system (i.e. loading point dust collector)	<input type="checkbox"/>	<input type="checkbox"/>
• dust collector discharge reused in production?	<input type="checkbox"/>	<input type="checkbox"/>
Is process water heating system regularly maintained?	<input type="checkbox"/>	<input type="checkbox"/>
Is a low NOx Boiler (as per Boiler manufacturer) used? [ ] [ ]		
<b>5.1.3 Plant Site</b>		
Are entrance/exit traffic areas paved?	<input type="checkbox"/>	<input type="checkbox"/>
Are paved areas kept clean?	<input type="checkbox"/>	<input type="checkbox"/>
Is there a fugitive dust management plan for paved and unpaved areas? Describe _____	<input type="checkbox"/>	<input type="checkbox"/>
Are speed limit signs posted to reduce yard traffic emissions?	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.1.4 Combustion Equipment</b>		
Are mobile equipment engines, including diesel generators, maintained regularly?	<input type="checkbox"/>	<input type="checkbox"/>
Are pollution control devices connected and working properly?	<input type="checkbox"/>	<input type="checkbox"/>
Is Bio Fuel used?	<input type="checkbox"/>	<input type="checkbox"/>
Is there a truck no idle policy when in the yard? Describe Policy _____	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.1.5 Aggregate Drop Points</b>		
Is the number of drop points minimized? Describe _____	<input type="checkbox"/>	<input type="checkbox"/>
Are drop points covered, protected or is dust collected?	<input type="checkbox"/>	<input type="checkbox"/>

**TOTAL SECTION 5** \_\_\_\_\_ / 18

**6 COMMUNITY AND SOCIAL IMPACT**

**6.1 Noise**

**YES NO**

**6.1.1 Plant Noise Reduction**

- Have rubber mounts been installed on pumps and motors whenever possible?  [ ]  [ ]
- Have air cylinders and vibrator exhausts been vented to a common manifold or stone bin?  [ ]  [ ]
- Are there exhaust muffler systems on cementing material delivery trucks or are they provided for use at the facility?  [ ]  [ ]
- Are signal lights used in place of plant horns?  [ ]  [ ]
- Is off-peak delivery of materials scheduled (if beneficial)?  [ ]  [ ]

**6.1.2 Truck and Loader Engine Noise Reduction**

- Are the truck mixers and loaders regularly maintained to ensure low level operating noise?  [ ]  [ ]
- Are proper truck and loader exhaust mufflers installed and maintained?  [ ]  [ ]
- Are back-up alarms automated on trucks and loaders?  [ ]  [ ]

**6.2 Energy**

**6.2.1 Facility Energy Use Reduction**

- Does the facility:
- automatically shut off all or majority of lights when not needed in plant, garage, office and/or yard?  [ ]  [ ]
  - have programmable thermostats in heated/cooled areas?  [ ]  [ ]
  - have a high efficiency boiler ( as per manufacturer)?  [ ]  [ ]
  - use energy efficient light bulbs?  [ ]  [ ]
  - turn off heating pumps when not in use?  [ ]  [ ]
  - turn off loading pumps when not in use?  [ ]  [ ]
  - use variable speed motors?  [ ]  [ ]
  - turn off conveyors when not in use?  [ ]  [ ]
  - use timers for truck block heaters in winter?  [ ]  [ ]
- Is the water for concrete production heated only when necessary?  [ ]  [ ]
- Is the aggregate for concrete production heated only when necessary?  [ ]  [ ]
- Do you purchase GREEN Power?  [ ]  [ ]

Source \_\_\_\_\_

**6.3 Plant Aesthetics**

- Does the facility and surroundings include aesthetic enhancements such as clean sites, landscaping, sound walls, hedge rows, and earth berms?  [ ]  [ ]

**TOTAL SECTION 6** \_\_\_\_\_ / 21

## INNOVATION AND DESIGN - ID

### 7 PRODUCT AND SERVICE SUPPLIERS

	YES	NO
Does the facility:		
<ul style="list-style-type: none"> <li>• Promote environmental sustainability with suppliers of products and services such as just in time delivery, off peak delivery, reduced packaging, chemical substitutes, etc.? (i.e. Portland cement, SCM, admixture, aggregates, colour agents, fibres, fuels, lubricants, parts, etc.) How _____</li> <li>• Work with suppliers to drive innovation for product conservation or other performance characteristics to reduce environmental impact? How _____</li> <li>• Work with customers to drive innovation for product conservation or other performance characteristics to reduce environmental impact? How _____</li> </ul>	<input type="checkbox"/>   <input type="checkbox"/>   <input type="checkbox"/>	<input type="checkbox"/>   <input type="checkbox"/>   <input type="checkbox"/>
Does the company promote the use of innovative products such as Self Consolidating Concrete for reduced labour savings or Pervious Concrete for Stormwater Management? Describe _____	<input type="checkbox"/>	<input type="checkbox"/>
Does the company use innovative technologies such as Global Positioning Systems for dispatch and delivery scheduling to minimize road congestion, driving distances, delivery times, job site emissions and truck idling? Describe _____	<input type="checkbox"/>	<input type="checkbox"/>
Does the company have LEED Certified personnel on staff?	<input type="checkbox"/>	<input type="checkbox"/>
Does the company promote the use of innovative practices not addressed in this Check List to reduce environmental impact? Describe _____	<input type="checkbox"/>	<input type="checkbox"/>

**TOTAL SECTION 7**    \_\_\_\_\_ / 7

## ECO CERTIFIED CONCRETE FACILITY APPLICATION CALCULATION

1. *Minimum Requirements Section 1 – all information must be included and all applicable permits/information must be in place to proceed.*
2. *Sections 2 to 7 must each achieve a Pass rating (1 point awarded for each YES answer in Section 2 to 7).*

				Pass✓	Failx
Section 1 – Minimum Compliance				<input type="checkbox"/>	<input type="checkbox"/>
Section 2	28 Points Available	Pass = 17	Actual number _____	<input type="checkbox"/>	<input type="checkbox"/>
Section 3	20 Points Available	Pass = 12	Actual number _____	<input type="checkbox"/>	<input type="checkbox"/>
Section 4	8 Points Available	Pass = 5	Actual number _____	<input type="checkbox"/>	<input type="checkbox"/>
Section 5	18 Points Available	Pass = 11	Actual number _____	<input type="checkbox"/>	<input type="checkbox"/>
Section 6	21 Points Available	Pass = 13	Actual number _____	<input type="checkbox"/>	<input type="checkbox"/>
Section 7	7 Points Available	Pass = 4	Actual number _____	<input type="checkbox"/>	<input type="checkbox"/>

**ENGINEER AND OWNER DECLARATION FORM**

**ENGINEER'S CONFORMANCE AGREEMENT**



I, a registered Professional Engineer in the Province of Ontario, certify that:

\_\_\_\_\_ (Plant)

\_\_\_\_\_ (Address)

Owned by: \_\_\_\_\_  
(RMCAO Concrete Producer Member)

has been inspected according to this ECO Certified Concrete Facility, and thereby meets the necessary RMCAO requirements of conformance as of the date of inspection.

(Seal)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Inspection Date

**OWNER'S CONFORMANCE AGREEMENT**



**Terms and Conditions**

1. The Company agrees that all information contained herein is factual, and to maintain these facilities and equipment in compliance with these ECO Certified Concrete Facility requirements at all times, and will promptly correct any deficiencies that develop.
2. The Company agrees to operate in accordance to the RMCAO Best Management Practices and directions and policies.
3. The Company agrees to allow an RMCAO appointed Auditor to inspect the plant on a random or as needed basis.

\_\_\_\_\_  
Name of Company's Signing Authority (please print)

\_\_\_\_\_  
Signature of Company's Signing Authority

\_\_\_\_\_  
Title of Company's Signing Authority

\_\_\_\_\_  
Email Address

\_\_\_\_\_  
Phone number

\_\_\_\_\_  
Date