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Ministry of the Environment, Conservation and Parks  
Ministère de l'Environnement, de la Protection de la nature et des Parcs

**ENVIRONMENTAL COMPLIANCE APPROVAL**

NUMBER 1069-BFNSSQ

Issue Date: September 9, 2019

St. Marys Cement Inc. (Canada)  
55 Industrial Street  
Toronto, Ontario  
M4G 3W9

**Site Location:** Mobile Facility

*You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:*

One (1) portable ready-mix concrete batching plant, operating at a maximum production rate of 100 cubic metres per hour and consisting of the following:

- One (1) loading point equipped with a dust shroud and loadout sock;
- 
- One (1) baghouse dust collection system serving the cementitious material silos, cement weight scale, and loading point, equipped with polyester filter material and a pulse-jet type cleaning system, discharging to the air at a volumetric flow rate of 3.1 cubic metres per second through a vent having dimensions of 0.5 metre by 0.4 metre and located 3.7 metres above grade;
- 
- One (1) diesel fired generator rated at 198 kilowatts, discharging to the air at a volumetric flow rate of 0.8 cubic metre per second through a stack having an exit diameter of 0.1 metre and extending 2.5 metres above grade;
- 
- Fugitive dust emissions resulting from the delivery, storage, and transfer of materials associated with ready-mix concrete batching operations, including controls and enclosures as described in the *ESDM Report* and in Schedule B of this *Approval*.
- 

all in accordance with the Environmental Compliance Approval application signed by Colin Evans, dated October 15, 2018, and submitted by the *Company*, the Emission Summary and Dispersion Modelling Report dated October 2018, prepared by Chris Sabaziotis and reviewed by Neil Chan P.Eng. of BCX Environmental Consulting, and submitted in support of the application, the Acoustic Assessment Report prepared by HGC Engineering, October 31, 2018 and signed by Swetha Kulandaivelan, the

information submitted via e-mail by Chris Sabaziotis on August 29, 2019, and all other supporting information and documentation submitted in support of the application.

*For the purpose of this environmental compliance approval, the following definitions apply:*

1. "*Acoustic Assessment Report*" means the report, prepared in accordance with *Publication NPC-233* submitted in support of the application, that documents all sources of noise emissions and *Noise Control Measures* present at the *Plant*. "*Acoustic Assessment Report*" also means the Acoustic Assessment Report prepared by HGC Engineering, October 31, 2018 and signed by Swetha Kulandaivelan;
2. "*Acoustic Barrier*" means a barrier or berm positioned such that it completely interrupts the line of sight between the *Equipment* and the noise sensitive *Points of Reception* continuous without holes, gaps and other penetrations, and having surface mass of at least 20 kilograms per square metres;
3. "*Additional Controls*" means a three sided enclosure on the above ground hopper, three sides and a top enclosing conveyor transfers, and aggregate delivery trucks backing up to the entrance of the stockpile enclosure before unloading;
4. "*Approval*" means this Environmental Compliance Approval, including the application and supporting documentation listed above;
5. "*Class 1 Area*" means an area with an acoustical environment typical of a major population centre, where the background sound level is dominated by the activities of people, usually road traffic, often referred to as "urban hum";
6. "*Class 2 Area*" means an area with an acoustical environment that has qualities representative of both Class 1 and Class 3 areas:
  1. sound levels characteristic of Class 1 during daytime (07:00 to 19:00 or to 23:00 hours); and
  2. low evening and night background sound level defined by natural environment and infrequent human activity starting as early as 19:00 hours (19:00 or 23:00 to 07:00 hours);
7. "*Class 3 Area*" means a rural area with an acoustical environment that is dominated by natural sounds having little or no road traffic, such as:
  1. a small community;
  2. agricultural area;
  3. a rural recreational area such as a cottage or a resort area; or
  4. a wilderness area;

8. "*Common Air Contaminants*" means the contaminants listed in the Emission Summary Table of the *ESDM Report*;
9. "*Company*" means St. Marys Cement Inc. (Canada), that is responsible for the construction or operation of the *Facility* and includes any successors and assigns;
10. "*Director*" means a person appointed for the purpose of section 20.3 of the *EPA* by the *Minister* pursuant to section 5 of the *EPA*;
11. "*District Manager*" means the District Manager of the appropriate local district office of the *Ministry*, where the *Facility* is geographically located;
12. "*EPA*" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;
13. "*Equipment*" means the processes and equipment described in the *Company's* application, this *Approval* and in the supporting documentation submitted with the application, to the extent approved by this *Approval*;
14. "*ESDM Report*" means the Emission Summary and Dispersion Modelling Report prepared by Chris Sabaziotis and reviewed by Neil Chan, P.Eng., both of BCX Environmental Consulting, dated October 2018, and submitted in support of the application, and includes any changes to the report made up to the date of issuance of this *Approval*;
15. "*Facility*" means the entire operation located on the property where the *Equipment* is located;
16. "*Manual*" means a document or a set of documents that provide written instructions to staff of the *Company*;
17. "*Minister*" means the Minister of the Environment, Conservation and Parks or such other member of the Executive Council as may be assigned the administration of the *EPA* under the Executive Council Act;
18. "*Ministry*" means the ministry of the *Minister*;
19. "*Noise Control Measures*" means measures to reduce the noise emissions from the *Plant / Equipment* including, but not limited to, silencers, acoustic louvers, enclosures, absorptive treatment, plenums and barriers, described in the *Company's* application, this *Approval* and in the supporting documentation referred to herein, to the extent approved by this *Approval*;
20. "*Plant*" means the portable ready-mix concrete batching plant, incorporating the *Equipment*;
21. "*Point of Reception*" means a Point of Reception as defined in *Publication NPC-300*;
22. "*Publication NPC-233*" means the *Ministry* Publication NPC-233 "Information to be

Submitted for Approval of Stationary Sources of Sound" , October 1995, as amended;

23. "*Publication NPC-300*" means the *Ministry* Publication NPC-300, "Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning, Publication NPC-300", August, 2013, as amended;
24. "*Sensitive Receptor*" means any location where routine or normal activities occurring at reasonably expected times would experience adverse effect(s) from discharges from the *Plant* to the atmosphere, including one or a combination of:
  - a. private residences or public facilities where people sleep (eg: single and multi-unit dwellings, nursing homes, hospitals, trailer parks, camping grounds, etc.);
  - b.
  - c. institutional facilities (eg: schools, churches, community centres, day care centres, recreational centres, etc.);
  - d.
  - e. outdoor public recreational areas (eg: trailer parks, play grounds, picnic areas, etc.); and
  - f.
  - g. other outdoor public areas where there are continuous human activities (eg: commercial plazas and office buildings); and
25. "*Truck(s)*" means cementitious materials tanker truck(s), ready-mix concrete truck(s), aggregate truck(s) and sand truck(s).

*You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:*

## TERMS AND CONDITIONS

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### 1. OPERATION AND MAINTENANCE

1. The *Company* shall ensure that the *Equipment* is properly operated and maintained at all times. The *Company* shall:
  - a. prepare, before commencement of operation of the *Equipment*, and update, as necessary, a *Manual* outlining the operating procedures and a maintenance program for the *Equipment*, including:
    - i. routine operating and maintenance procedures in accordance with

good engineering practices and as recommended by the Equipment suppliers;

- ii. emergency procedures; including spill clean-up procedures;
- iii. procedures for any record keeping activities relating to operation and maintenance of the *Equipment*;
- iv. procedures for recording the hourly volume of ready-mix concrete produced;
- v. procedures for recording the duration of operation of the *Equipment* at any one operating site;
- vi. procedures for determining whether there are other sources of *Common Air Contaminants* or noise at an operating site;
- vii. procedures for identifying separation distances between the *Plant* and *Points of Reception*, and between the *Plant* and *Sensitive Receptors*;
- viii. the frequency of inspection and replacement of the filter material in the *Equipment*;
- ix. all appropriate measures to minimize noise emissions from all potential sources; and
- x. procedures for assessing the moisture level of sand and aggregate material, and application of liquid dust suppressant to dry sand and aggregate material.

b. implement the recommendations of the *Manual*.

## 2. MINIMUM SEPARATION DISTANCES

1. The *Company* shall ensure a minimum separation distance between the *Plant* and the nearest *Sensitive Receptor* as specified in Schedule C of this *Approval*.
2. The *Company* shall ensure a minimum separation distance between the *Plant* and the nearest *Point of Reception* as specified in Schedule D of this *Approval*.

## 3. SITE-SPECIFIC OPERATIONAL LIMITS

1. The *Company* shall limit the operation of the *Equipment* at any one site as follows:
  - a. the *Equipment* shall be operated for a maximum duration of one (1) calendar year at any one site if there are no other sources of *Common Air Contaminants* or noise at that site; otherwise the *Equipment* shall be

operated for a maximum of sixty (60) calendar days per year at that site.

#### 4. NOISE

1. The *Company* shall, at all times, ensure that the noise emissions from the *Plant* comply with the limits determined in accordance with *Ministry Publication NPC-300*.
2. The *Company* shall ensure that the *Acoustic Barrier*, when required, is erected within 7 working days of start-up of the *Equipment* and until that time, the *Plant* operations shall be restricted to the daytime hours of 7 a.m. to 7 p.m., Monday to Friday.
3. The *Company* shall ensure that the *Acoustic Barrier*, when required, is implemented at all times during the operation of the *Plant*.
4. The *Company* shall ensure that the *Acoustic Barrier*, when required, is continuous without holes, gaps or other penetrations, and having a surface mass density of at least 20 kilograms per square metre, and that it will be positioned in between the *Plant* and the *Points of Reception* that require shielding as specified in Schedule D.
5. The *Company* shall ensure that the *Acoustic Barrier*, when required, is properly maintained and continues to provide the acoustical performance outlined in the *Acoustic Assessment Report*.

#### 5. FUGITIVE DUST CONTROL

The *Company* shall provide effective dust suppression for the *Equipment* and any other sources of fugitive dust emissions related to the operation of the *Plant* and *Equipment*.

#### 6. MARKING OF PORTABLE PLANT

1. The *Company* shall post a legible sign at any site where the *Plant* is operated, in a location which is accessible to the public, clearly identifying:
  - a. the *Company* name;
  - b. the number of this *Approval*;
  - c. a brief description of the nature of the operation;
  - d. a *Company* contact name and telephone number for the public to provide comments;
  - e. hours of operation; and
  - f. length of time the *Company* intends to operate the *Plant* at that location.

## 7. KEEPING A VALID APPROVAL

1. The *Company* shall ensure that a copy of this *Approval*, as well as any subsequent amended *Approvals* or Notices that amend this *Approval*, are available at each site where the *Plant* is operated.

## 8. RECORD RETENTION

1. The *Company* shall retain, for a minimum of two (2) years from the date of their creation, all records and information related to or resulting from the recording activities required by this *Approval*, and make these records available for review by staff of the *Ministry* upon request. The *Company* shall retain:
  - a. all records on the maintenance, repair and inspection of the *Equipment*;
  - b. all records on the hourly volume of ready-mix concrete produced at each operating site;
  - c. all records on the duration of operation at each operating site;
  - d. all records on the separation distances between the *Plant* and *Points of Reception*, and between the *Plant* and *Sensitive Receptors* at each operating site;
  - e. all records on the environmental complaints; including:
    - i. a description, time, date and location of each incident;
    - ii. wind direction and other weather conditions at the time of the incident;
    - iii. the name(s) of *Company* personnel responsible for handling the incident;
    - iv. the cause of the incident;
    - v. the *Company* response to the incident; and
    - vi. a description of the measures taken to address the cause of the incident and to prevent a similar occurrence in the future, and the outcome of the measures taken.

## 9. NOTIFICATION

1. The *Company* shall notify the *District Manager*, in writing, at least ten (10) business days in advance of any intended location of the *Plant* at an operating site, by submitting a completed Form 1, as outlined in Schedule A of this *Approval*.
2. The *Company* shall notify the *District Manager*, in writing, of each environmental complaint within two (2) business days of the complaint. The notification shall include:

- a. a description of the nature of the complaint; and
  - b. the time and date of the incident to which the complaint relates.
3. The *Company* shall notify the *Director* and the *District Manager*, in writing, of any of the following changes within thirty (30) days of the change occurring:
  - a. change of owner or operating authority, or both;
  - b. change of address of owner or operating authority or address of new owner or operating authority;
  - c. change of partners where the owner is or at any time becomes a partnership, with a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c. B.17, as amended;
  - d. change of name of the corporation where the owner is or at any time becomes a corporation, with a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C.39.
4. The *Company* shall notify any succeeding new owner, in writing, of the existence of this *Approval*, as well as any subsequent amended *Approvals* or Notices that amend this *Approval* and, shall forward a copy of such a notice to the *Director* and the *District Manager* together with the notification required under Condition 10.3.

## **SCHEDULE A**

### **Form 1: NOTICE OF RELOCATION FOR PORTABLE EQUIPMENT**

#### **1. Owner and/or Operator**

1. Company name:
2. Contact person:
3. Telephone number:

#### **2. Proposed Location**

1. Municipality:
2. Lot number:
3. Concession number:

#### **3. Operation**

1. Date of commencement and completion of operation:
  - a. Start Date:
  - b. End Date:
2. Hours of operation:



- a. Start Time:
- b. End Time:
- 3. Maximum hourly production rate (cubic metres per hour):
- 4. Are there other existing sources of *Common Air Contaminants* or noise at the site?
- 5. What is the applicable Site-Specific Operational Limit for the portable equipment, as per Condition 3.1 of the Environmental Compliance Approval (ECA)?

Please attach the following:

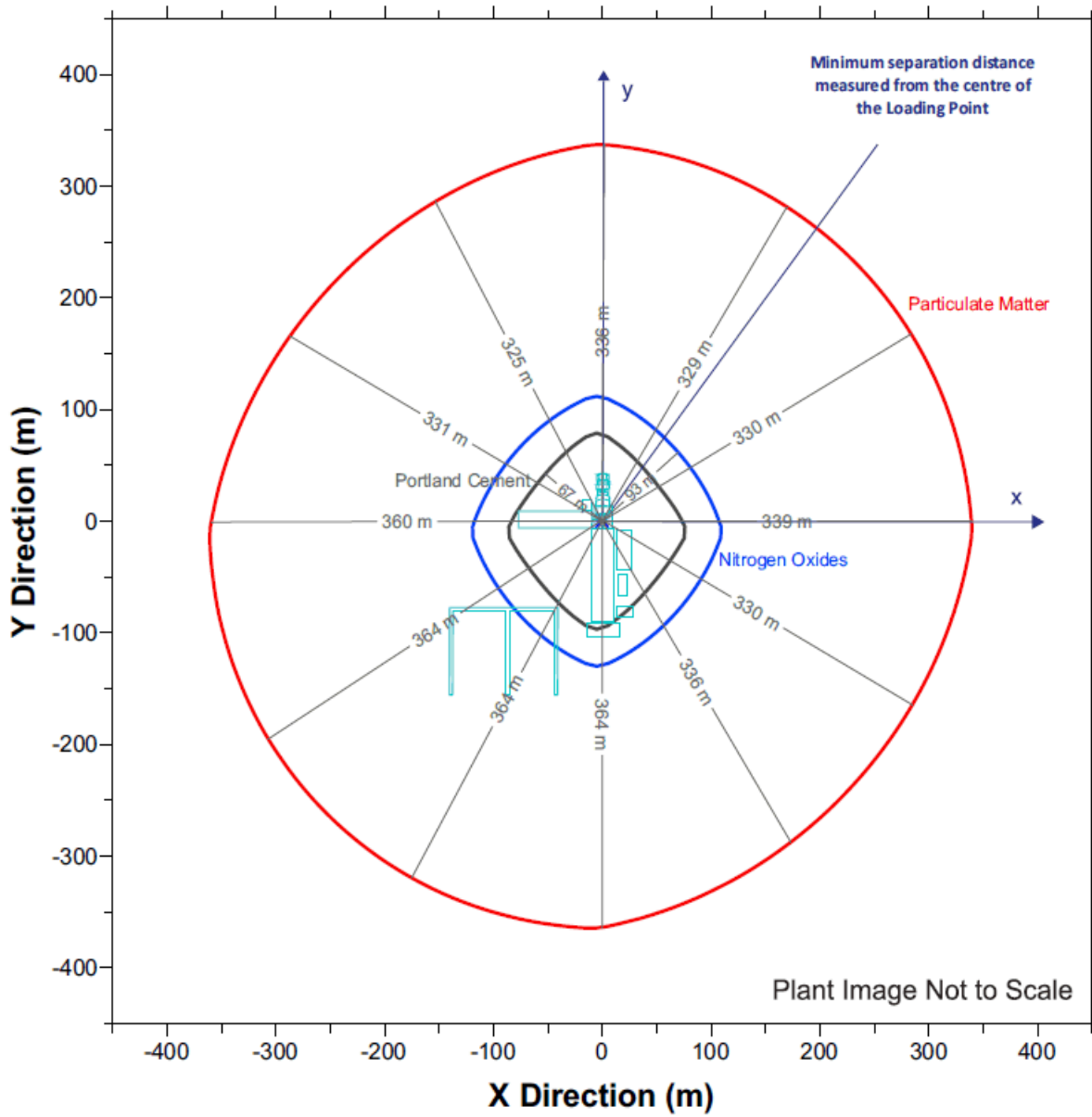
- 1. A copy of the Environmental Compliance Approval (ECA).
- 2. A statement as to which operating scenario, as listed in the ECA Schedules B and D, the *Equipment* will be operating under.
- 3. A plot plan or sketch of the proposed location showing the following:
  - a. the entire operating site;
  - b. distance between the *Plant* and the nearest off-property *Point of Reception*;
  - c. distance between the *Plant* and the nearest *Sensitive Receptor*;
  - d. land use within the minimum separation distances specified in Conditions No. 2.1 and 2.2 of the ECA.

**SCHEDULE B  
Operating Scenarios**

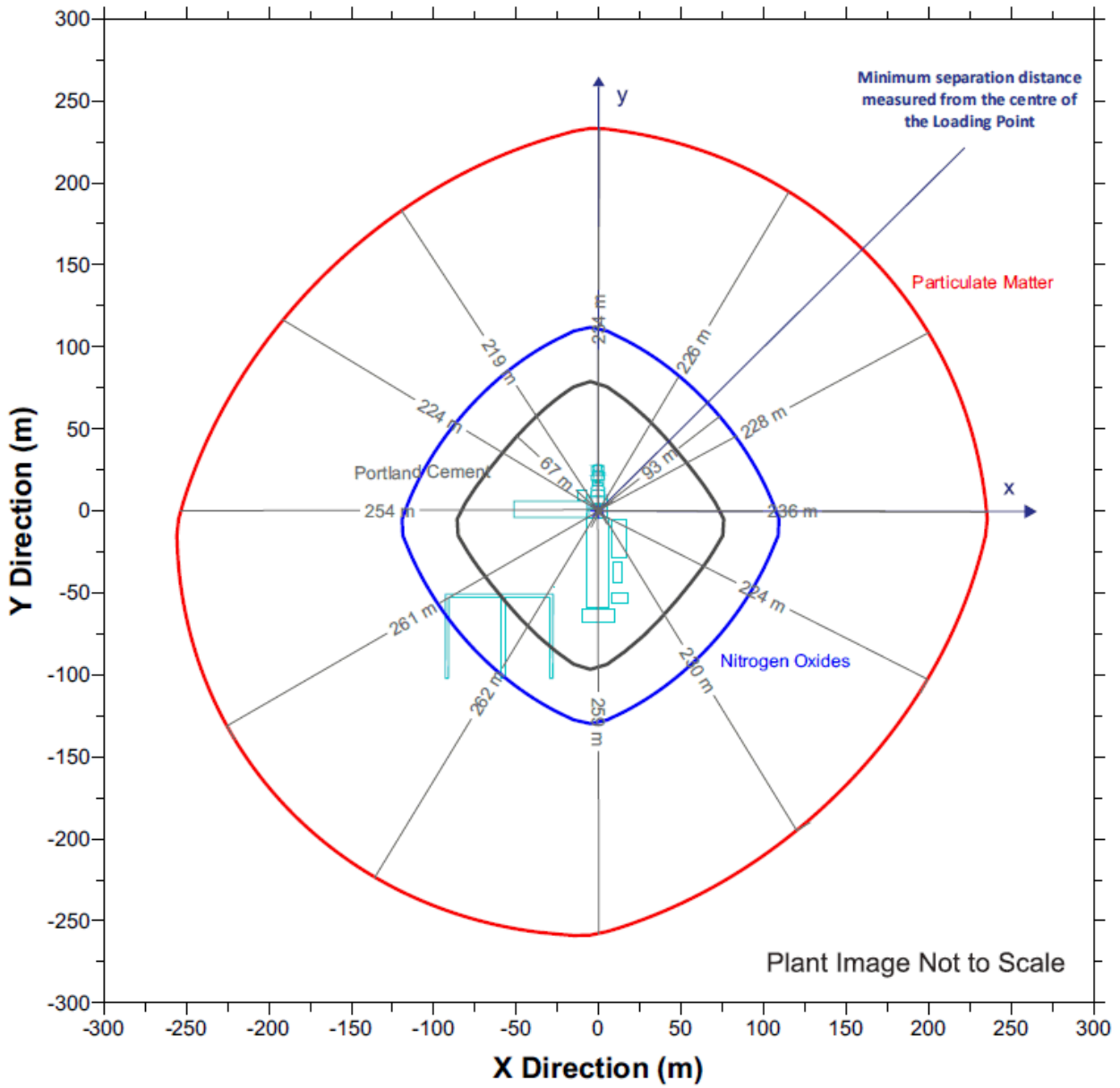
<b>Operating Scenario</b>	<b>Diesel Generator</b>	<b>Aggregate</b>	<b>Additional Controls</b>
1A	Yes	Unwashed	No
1B	Yes	Unwashed	Yes
2A	No	Unwashed	No
2B	No	Unwashed	Yes
3A	Yes	Washed	No
3B	Yes	Washed	Yes
4A	No	Washed	No
4B	No	Washed	Yes

**SCHEDULE C  
Minimum Required Separation Distances to Sensitive Receptors for Different  
Operating Scenarios**

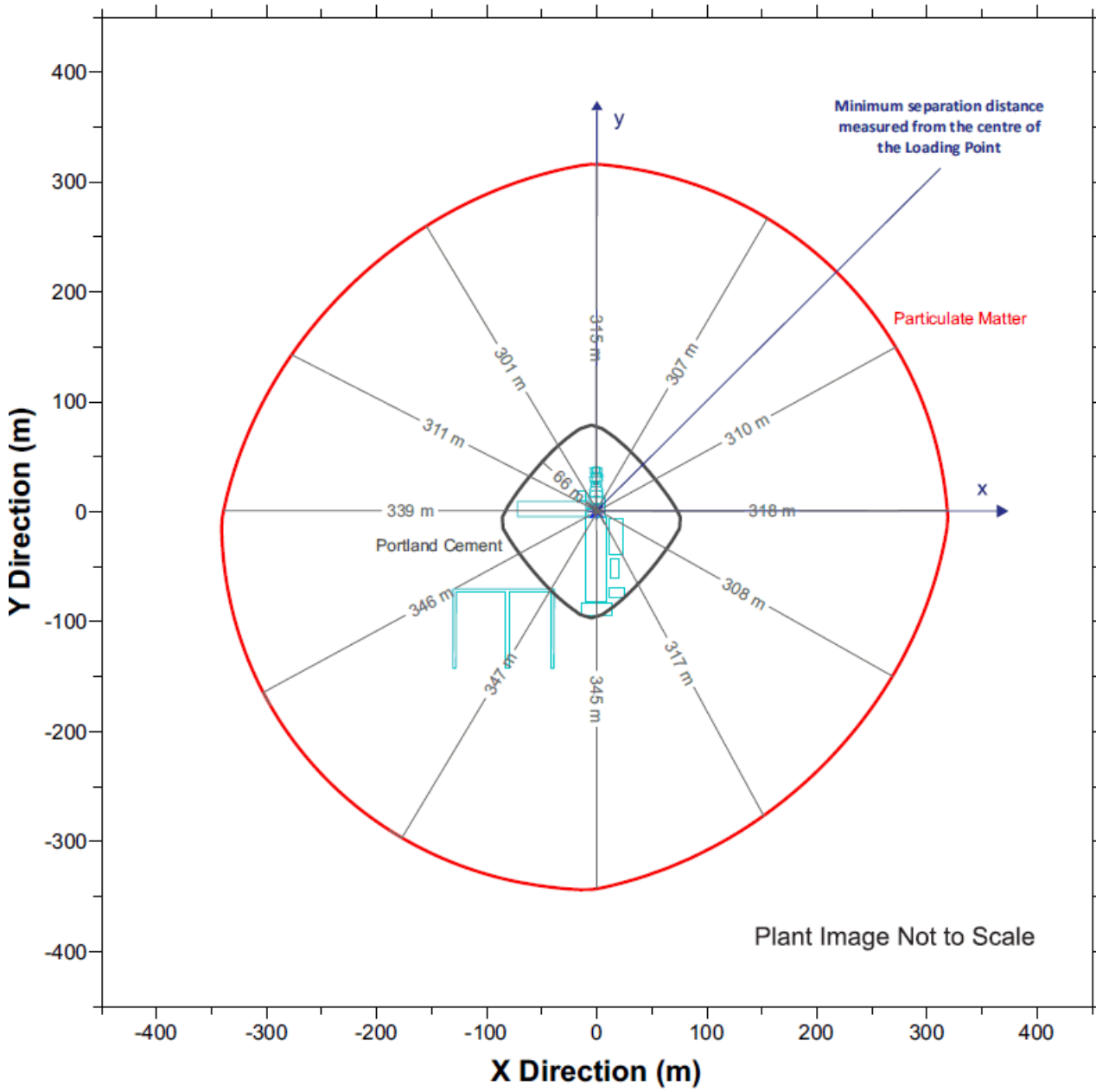
# Scenario 1A - Minimum Separation Distance



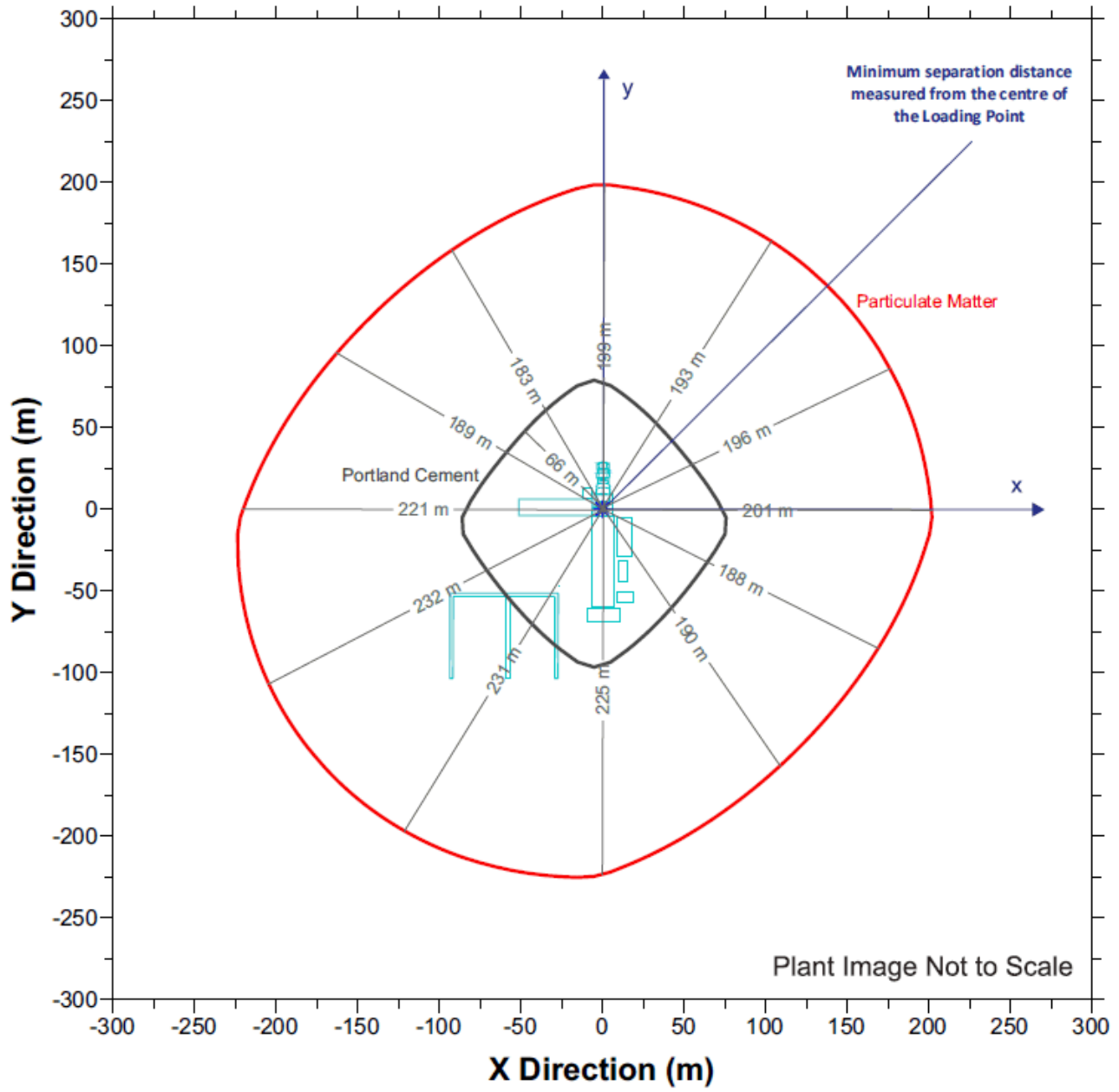
# Scenario 1B - Minimum Separation Distance



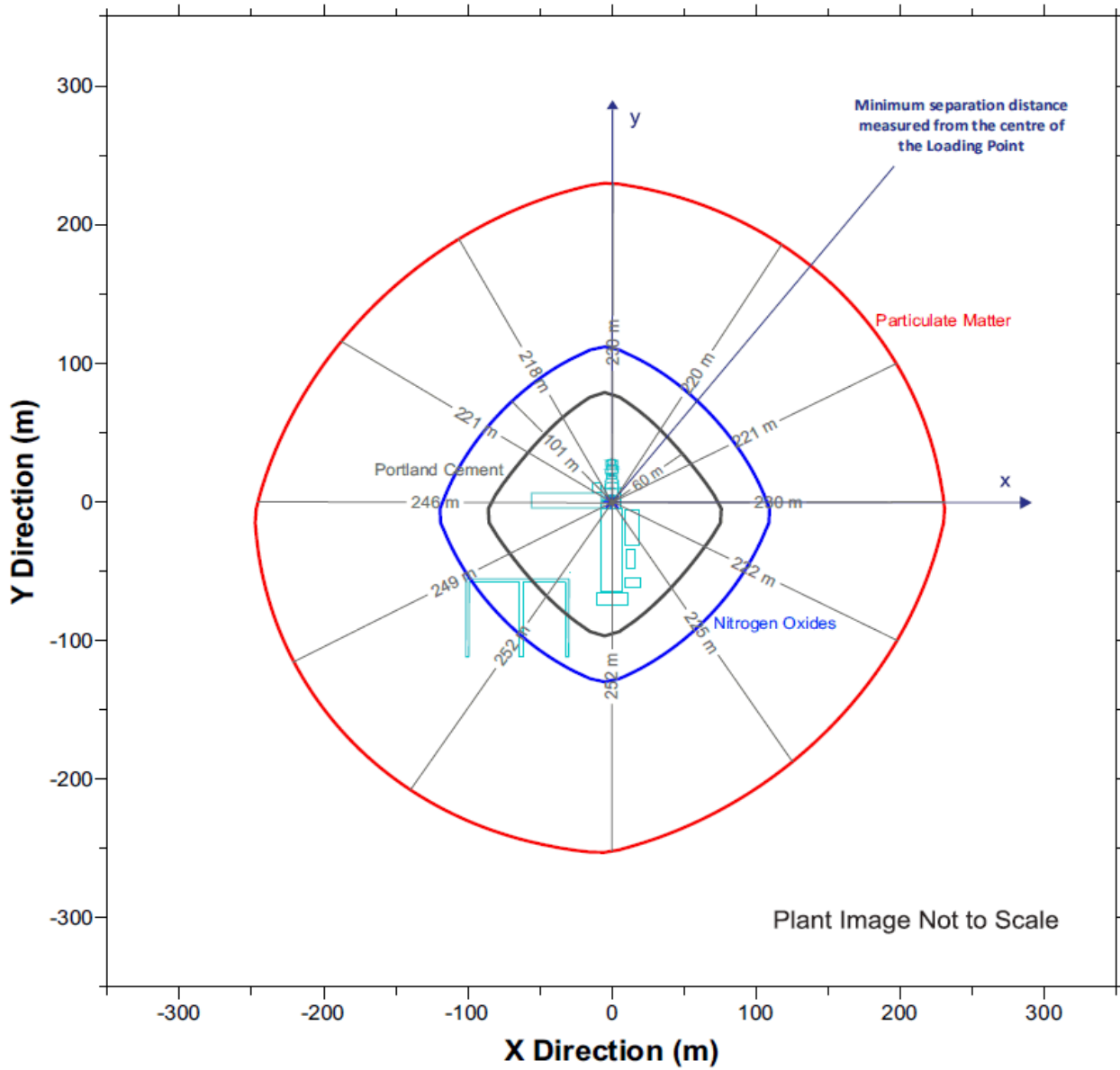
# Scenario 2A - Minimum Separation Distance



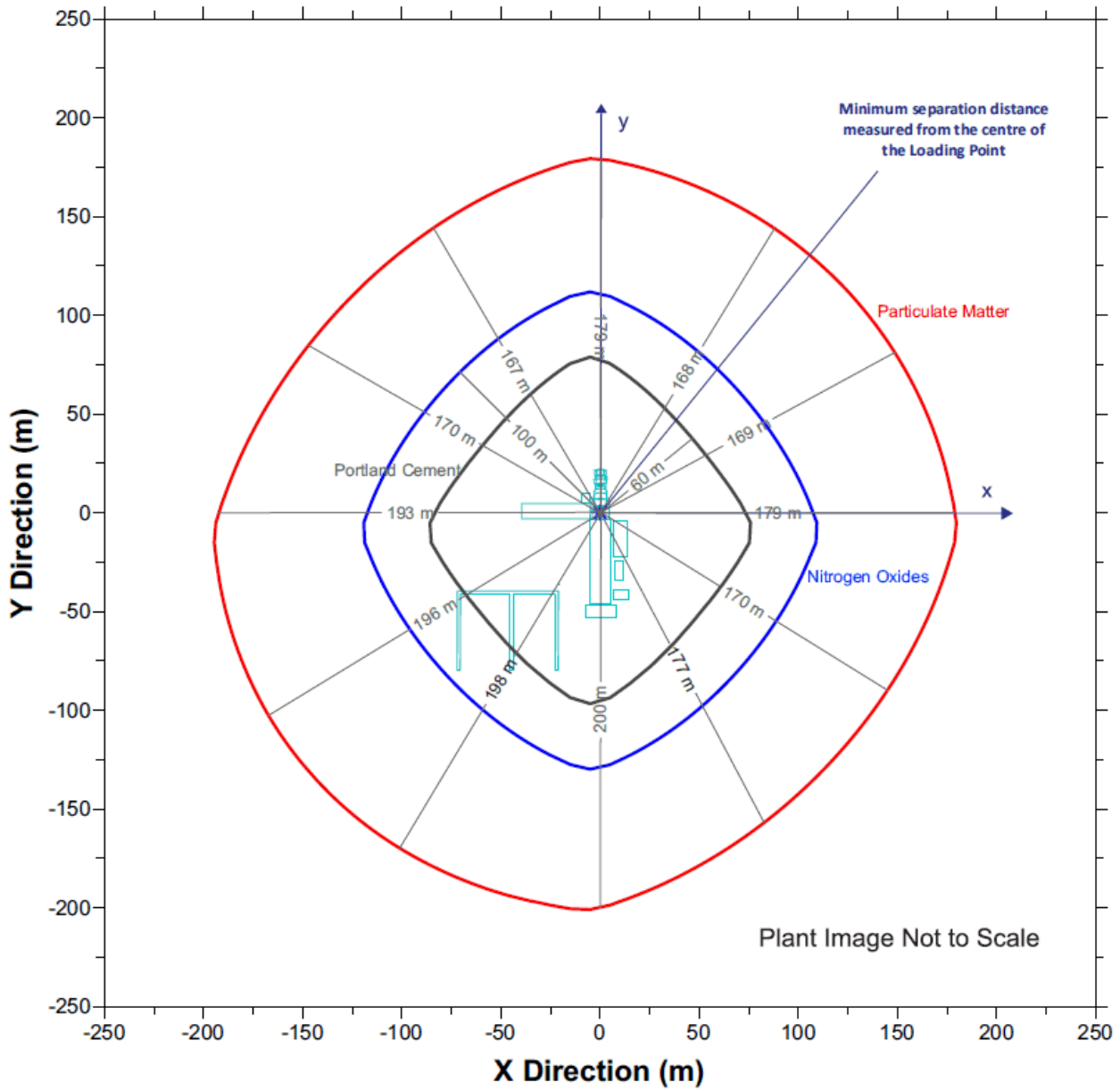
## Scenario 2B - Minimum Separation Distance



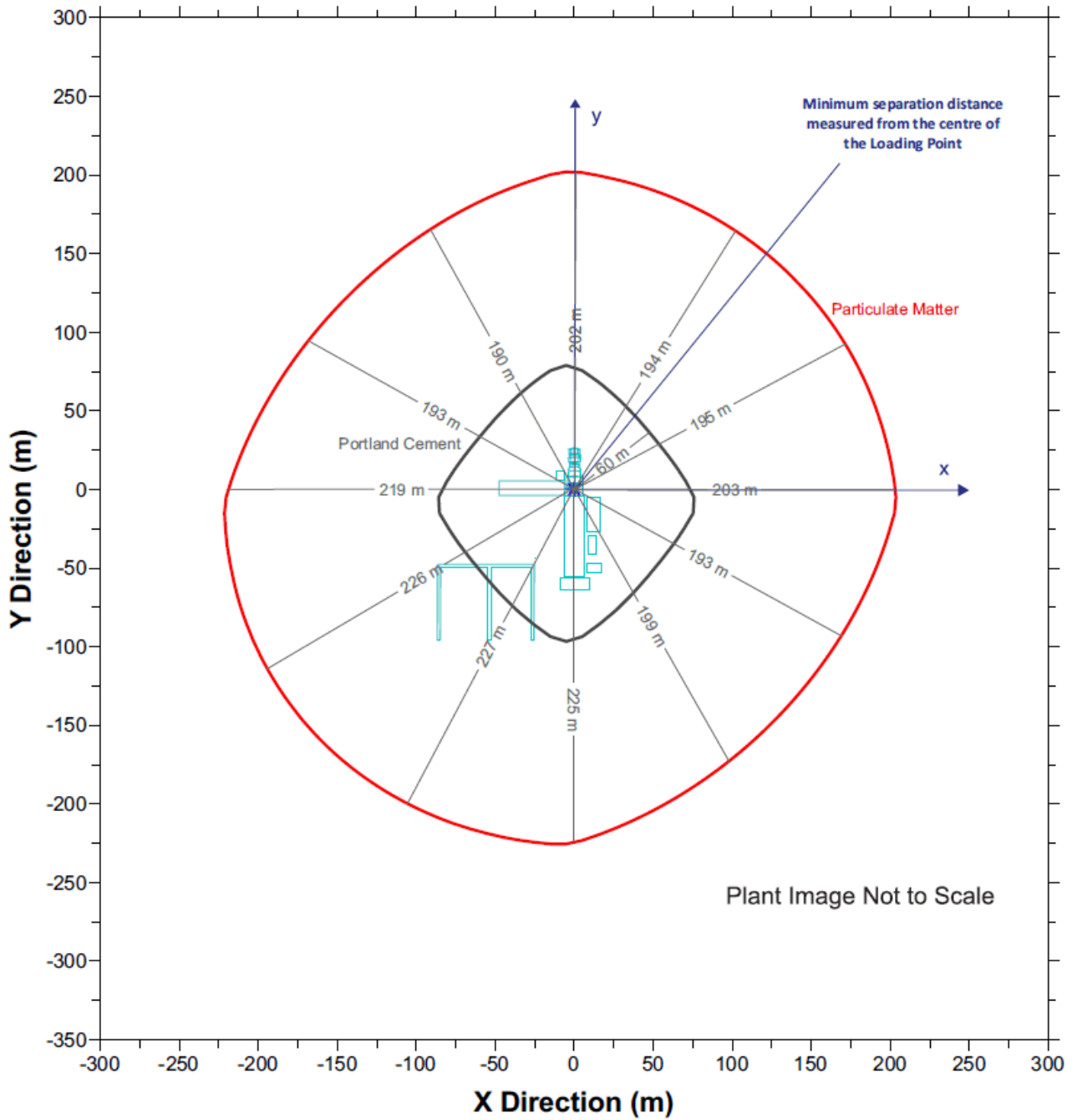
# Scenario 3A - Minimum Separation Distance



# Scenario 3B - Minimum Separation Distance

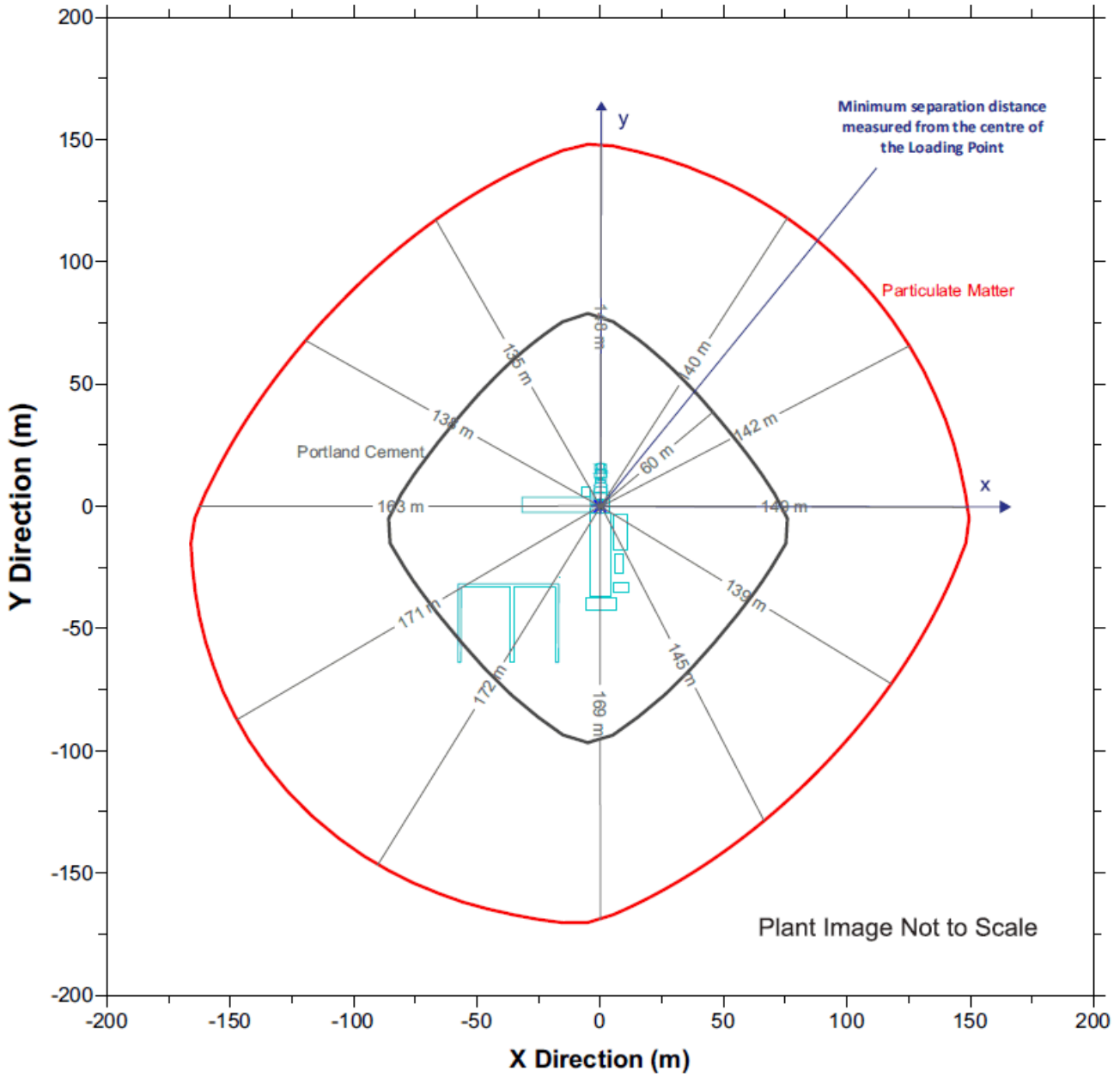


# Scenario 4A - Minimum Separation Distance





## Scenario 4B - Minimum Separation Distance



### Minimum Required Separation Distances from the *Plant* to the *Points of Reception*

**Table 1: Operating Scenario 1 - with Tanker Trucks unloading; with generator power; without Acoustic Barrier**

<b>Publication NPC-300 Acoustical Area</b>	<b>Time of Operation</b>	<b>Sound Level Limit (dBA)</b>	<b>Minimum Separation Distance (metres)</b>
Class 1	Day (7 a.m. to 7 p.m.)	50	700
Class 1	Evening (7 p.m. to 11 p.m.)	50	700
Class 1	Night (11 p.m. to 7 a.m.)	45	1,055
Class 2	Day (7 a.m. to 7 p.m.)	50	700











DATED AT TORONTO this 9th day of September,  
2019

Jeffrey McKerrall, P.Eng.  
Director  
appointed for the purposes of Part  
II.1 of the *Environmental  
Protection Act*

NR/  
c: District Manager, MECP Toronto - District  
Niel Chan P.Eng., BCX Environmental Consulting