Class II

Air Quality Operating Permit for Temporary Construction Sources Change of Location Approval Request Form

Guidance Document

Guide for completing the application for a Change Of Location Approval Request Form

NDEP

Nevada Division of Environmental Protection
Bureau of Air Pollution Control
901 South Stewart Street, Suite 4001
Carson City, NV 89701
(775) 687-9349

Our goal is to achieve and maintain levels of air quality that will protect human health, prevent injury to plant and animal life, prevent damage to property, and preserve the scenic, historical, and aesthetic treasures of the state

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ACRONYMS AND ABBREVIATIONS

ACFM	Actual Cubic Feet per Minute
AQOP	Air Quality Operating Permit
BAPC	Bureau of Air Pollution Control
BAQP	Bureau of Air Quality Planning
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COLA	Change of Location Approval
HA	Hydrographic Area (Basin)
hr	Hour
lb	Pound
N/A	Not Applicable
NAC	Nevada Administrative Code
NAD 83	North American Datum of 1983
NDEP	Nevada Division of Environmental Protection
NO_X	Oxides of Nitrogen
NRS	Nevada Revised Statutes
NSPS	New Source Performance Standards
PM	Particulate Matter
PM_{10}	Particulate Matter with an Aerodynamic Diameter Less Than or Equal to 10 Micrometers
$PM_{2.5}$	Particulate Matter with an Aerodynamic Diameter Less Than or Equal to 2.5 Micrometers
RO	Responsible Official
SO_2	Sulfur Dioxide
U.S.C	United States Code
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compounds

INTRODUCTION

This document is a detailed guide for completing an application for a Class II General Air Quality Operating Permit For Temporary Construction Sources Change of Location Approval Request Form (COLA Request Form).

For additional questions, call (775) 687-9349.

This guide and its associated application forms can be found on the Nevada Division of Environmental Protection (NDEP) website.

TWO THINGS TO REMEMBER BEFORE STARTING

1. When filling out the application, complete every blank or explain why no information is provided. Specify "N/A" (Not Applicable) if necessary. **Fields that are left blank may cause a delay in the processing time.**
2. If **revising a permit**, the facility must still submit all pages of the application and attachments.

APPLICATION SUBMITTAL AND PROCESSING TIMELINE

In order to start processing the application, both the application packet and fee must be received in accordance with NAC 445B.327.

Mail or hand deliver the application and fee(s), payable by check, to the following address:

Nevada Division of Environmental Protection
Bureau of Air Pollution Control, Class II Permitting Branch
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249

Fees may also be submitted online.

When submitting an electronic payment, include the facility's name and, if applicable, its existing permit number and facility identification number.

The application and fees are date stamped when received. The regulatory time frame allocates 10 working days in accordance with NAC 445B.331.

Bind the physical copies of the application.

Ensure the physical application contains the wet signature of the responsible official on the Certification Document page (See "Application Certification Document").

1. COVER PAGE

The cover page is the first page of the application, which includes the type of application and whether the facility is new or existing.

Company Name – Please put the name of the company that is requesting the COLA here. Specific company information will be requested on page 3 of the COLA Request Form.

Class II General Permit No. – This refers to the existing permit number located in the header section of the Class II General Air Quality Operating Permit For Temporary Construction Sources. (**Example:** Permit No. AP1499-3576). If the facility has applied for the Class II General Air Quality Operating Permit For Temporary Construction Sources at the same time as applying for a COLA, specify "N/A."

Number of Emission Units Requested or Revised – Specify how many emission units are in the application or how many units you will be changing in a previously issued COLA.

2. IMPORTANT INFORMATION

The application contains a section titled "Important Information." Read this information carefully before completing the application. It contains a list of application forms, due dates, regulations, and fee(s) associated with a permit.

3. GENERAL COMPANY INFORMATION FORM

The General Company Information Form requests a brief description of the operations of the facility, the contact and mailing information of the company, the responsible official (RO) of the facility, the plant manager or other appropriate contact, and the location and driving directions to the facility.

Section 1: Company name and address — Provide the company name and address as you want it to appear on the permit.

Section 2: Responsible official — Provide the name, title, and mailing address for the responsible official (RO). If the facility already has an air permit, the RO should be the same as what the BAPC already has on file.

The RO can be:[1]

1. For a corporation:
    (a) A president;
    (b) A vice president in charge of a principal business function;
    (c) A secretary;
    (d) A treasurer; or

[1] NAC 445B.156

(e) An authorized representative of such a person who is responsible for the overall operation of the facility and who is designated in writing by an officer of the corporation and approved in advance by the director of the Nevada Department of Conservation and Natural Resources.

2. For a partnership or sole proprietorship, a general partner or the proprietor, respectively.
3. For a municipality or a state, federal, or other public agency, a ranking elected official or a principal executive officer, including, for a federal agency, a chief executive officer who has responsibility for the overall operations of a principal geographic unit of the agency.
4. For an affected source, the designated representative or his or her alternate, as defined in 42 U.S.C. § 7651a(26).

Section 3: Location and driving directions to the facility:

- Provide the hydrographic area (HA) number(s) and name(s), township(s), range(s), and section(s) of the facility;
- Provide the Universal Transverse Mercator (UTM) coordinates of the front gate of the facility. The UTM coordinates must be in metric units using North American Datum of 1983 (NAD 83), Zone 11;
- Describe the location of the facility with respect to the nearest road and city (such as 8th Street, Wells, Nevada) and the county the facility is located in;
- Provide driving directions from nearest city to the facility.

Find the right maps.

The BAPC keeps online maps that can help determine HA basin number and names; township, section, and range; and UTM coordinates.

Maps can be found online

Section 4: Does any other temporary or stationary source exist at this proposed COLA request location? — If you are applying for a COLA where another temporary source already holds a permit you will need to discuss the situation with the BAPC. If you are applying for a COLA that is at a site that holds a Class I or Class II stationary air quality operating permit a modeling demonstration will need to be submitted with the COLA application (typically completed by the stationary source); these COLA's will take 30 days to process rather than the typical 10 working days.

Section 5: Does the proposed COLA request project disturb more than 5 acres of land? — If your project will be disturbing more than 5 acres of land then you will need to also submit an application for a Surface Area Disturbance permit and associated fees. The application can be found here: https://ndep.nv.gov/air/permitting/download-permit-forms
Application fees can be found here:
https://ndep.nv.gov/uploads/air-aqm-docs/200701_ndep_air_program_application__fees.pdf

Section 6: Does the COLA request include a Hot Mix Asphalt plant? — If you will be operating a hot mix asphalt plant with the requested COLA please check yes and provide the date of the last source test that was completed for the asphalt plant.

Section 7: Which type of COLA are you applying for? — Please choose which option best fits your facility.

Section 8: What is the minimum setback of equipment from public access and maximum hours of operation? — When choosing a minimum setback please choose the option for where any piece of equipment will be the closest to the fence line or where the public has access. For the maximum hours of operation please choose the maximum hours you could operate for the COLA.

4. DETAILED EMISSION CALCULATIONS: FORMS 1A AND 1B

Tables for detailed emission calculations has been provided in Form 1A and Form 1B. Form 1A is to be utilized for units that only have emissions from particulate matter such as crushers or conveyor transfers. Form 1B is to be utilized for units that emit gaseous emissions such as a natural gas fired dryer. The submitted detailed emission calculations do not need to follow the same format as those provided by the BAPC, as long as all of the information is included.

4.1 Emission Unit Description

Give each emission unit a name. Emission units can be grouped in systems (Example: System 1 – Conveyor 1; System 1 – Screen 1; etc.). A system contains emission units that are part of the same process (Example: Crushing Plant- a screening process and associated conveyors) or are controlled by the same air pollution control equipment (Example: all stacks lead to one baghouse).

4.2 Operating Hours

Specify maximum daily hours you intend to operate. These calculations should match the operating hours you answered for Question 8 of the General Company Information section of the application.

4.3 Emissions Control Technology

Provide the type of control equipment used (baghouse, bin vent, enclosure, water spray, wet scrubber, etc.) and add a label and number (Example: Baghouse BH-1). If an emission unit is not equipped with control equipment, write “no control” in this section.

4.4 Emission Factors

Emission factors are used to calculate the requested emission limits for regulated pollutants and are pre-defined for COLA applications. The throughput rate with the emission factor gives the emission limit of a pollutant. The emission factors that are to be utilized are in the tables in the General Permit for Temporary Construction Sources but have also been provided below.

Nonmetallic Minerals Crushing and Screening			
Emission Unit	**Emission Factor (lb/ton)**		
	PM	**PM_{10}**	**$PM_{2.5}$**
Loader to Feeder or Bin - Controlled[1]	0.00014	0.000046	0.000013
Loader to Feeder or Bin - Uncontrolled	0.0030	0.0011	0.00017
Crusher - Controlled[1]	0.0012	0.00054	0.00010
Screen - Controlled[1]	0.0022	0.00074	0.000050
Conveyor Transfer Point - Controlled[1]	0.00014	0.000046	0.000013

Notes:

(1) The emission factors listed for controlled emissions require wet dust suppression located at each emission unit and transfer point. Wet dust suppression consists of water sprays, fogging water sprays, fogging water sprays with chemical surfactant, or pneumatic fogging water sprays. Pre-wetting of material does not constitute wet dust suppression.

Hot Mix Asphalt Plant							
Emission Unit	**Emission Factor (lb/ton)**						
	PM	**PM_{10}**	**$PM_{2.5}$**	**NO_x**	**SO_2**	**CO**	**VOC**
Hot Mix Asphalt Plant - No.2 Fuel Oil Fired Dryer - Controlled[1]	0.045	0.045	0.045	0.055	0.011	0.13	0.032
Hot Mix Asphalt Plant - Natural Gas Fired Dryer - Controlled[1]	0.045	0.045	0.045	0.026	0.0034	0.13	0.032
Hot Mix Asphalt Plant - Waste Oil Fired Dryer - Controlled[1]	0.045	0.045	0.045	0.055	0.058	0.13	0.032
Hot Mix Asphalt Plant - No.2 Fuel Oil Fired Dryer - Controlled[2]	0.020	0.020	0.020	0.055	0.011	0.13	0.032
Hot Mix Asphalt Plant - Natural Gas Fired Dryer - Controlled[2]	0.033	0.033	0.033	0.026	0.0034	0.13	0.032
Hot Mix Asphalt Plant - Waste Oil Fired Dryer - Controlled[2]	0.033	0.033	0.033	0.055	0.058	0.13	0.032
Cold Aggregate/RAP[4] Bin Feeders - Controlled[3]	0.00014	0.000046	0.000013	-	-	-	-
Cold Aggregate/RAP[4] Bin Feeders - Uncontrolled	0.0030	0.0011	0.00017	-	-	-	-
Cold Aggregate/RAP[4] Bin Discharge - Controlled[3]	0.00014	0.000046	0.000013	-	-	-	-
Cold Aggregate/RAP[4] Bin Discharge - Uncontrolled	0.0030	0.0011	0.00017	-	-	-	-
Drum Dryer Discharge to Conveyor - Uncontrolled	0.00052	0.00052	0.00052	-	-	0.0013	0.0042
Hot Mix Asphalt Silo Loading - Uncontrolled	0.00059	0.00059	0.00059	-	-	0.0012	0.0122
Hot Mix Asphalt Silo Discharge - Uncontrolled	0.00052	0.00052	0.00052	-	-	0.0013	0.0042

Notes:

(1) Wet Scrubber Required

(2) Bag House Required

(3) Wet Dust Suppression Required

(4) Reclaimed/Recycled Asphalt Pavement

Lime Marination Plant			
Emission Unit	**Emission Factor (lb/ton)**		
	PM	**PM_{10}**	**$PM_{2.5}$**
Loader to Feeder or Bin - Controlled[1]	0.00014	0.000046	0.000013
Loader to Feeder or Bin - Uncontrolled	0.0030	0.0011	0.00017
Feeder to Conveyor - Controlled[1]	0.00014	0.000046	0.000013
Feeder to Conveyor - Uncontrolled	0.0030	0.0011	0.00017
Conveyor to Pugmill - Controlled[1]	0.00014	0.000046	0.000013
Conveyor to Pugmill - Uncontrolled	0.0030	0.0011	0.00017
Pugmill and Discharge to Conveyor - Controlled[1]	0.00014	0.000046	0.000013
Pugmill and Discharge to Conveyor - Uncontrolled	0.0030	0.0011	0.00017
Conveyor Transfer Point - Controlled[1]	0.00014	0.000046	0.000013
Conveyor Transfer Point - Uncontrolled	0.0030	0.0011	0.00017
Lime Silo Loading - Controlled[2]	0.00099	0.00034	0.00005
Lime Silo Unloading - Uncontrolled	0.0048	0.0028	0.00040

Notes:

(1) Wet Dust Suppression Required

(2) Emissions during loading are controlled by a bin vent

Concrete Batching			
Emission Unit	**Emission Factor (lb/ton)**		
	PM	**PM_{10}**	**$PM_{2.5}$**
Loader to Feeder or Bin - Controlled[1]	0.00014	0.000046	0.000013
Loader to Feeder or Bin - Uncontrolled	0.0030	0.0011	0.00017
Aggregate/Sand Conveyor Transfer Point - Controlled[1]	0.00014	0.000046	0.000013
Aggregate/Sand Conveyor Transfer Point - Uncontrolled	0.0030	0.0011	0.00017
Cement Silo Loading - Controlled[2]	0.00099	0.00034	0.000050
Cement Silo Unloading - Uncontrolled	0.0048	0.0028	0.00040
Weigh Hopper Loading – Controlled[4]	0.0024	0.0014	0.00020
Weigh Hopper Loading - Uncontrolled	0.0048	0.0028	0.00040
Cement Supplement Silo Loading - Controlled[2]	0.0089	0.0049	0.00070
Cement Supplement Silo Unloading - Uncontrolled	0.0048	0.0028	0.00040
Central Mixer Loading - Controlled[3]	0.0184	0.0055	0.00080
Central Mixer Loading - Uncontrolled	0.572	0.156	0.024
Truck Mixer Loading - Controlled[3]	0.098	0.0263	0.0040
Truck Mixer Loading - Uncontrolled	1.118	0.31	0.047

Notes:

(1) The emission factors listed for controlled emissions require wet dust suppression located at each emission unit and transfer point. Wet dust suppression consists of water sprays, fogging water sprays, fogging water sprays with chemical surfactant, or pneumatic fogging water sprays. Pre-wetting of material does not constitute wet dust suppression.

(2) Emissions during loading are controlled by a bin vent.

(3) Installations that employ water sprays, enclosures, hoods, curtains, shrouds, moveable and telescoping chutes, and central duct collection systems.

(4) Emissions during loading are controlled by an enclosure utilizing 50% control efficiency.

4.5 Calculated Emissions

Calculate and enter the projected emissions in lbs/day for each emission unit. Below is an example of the emission calculations.

$$Emission\ rate\frac{tons}{hr}\ x\ Operating\ Hours\frac{hrs}{day}\ x\ Emission\ Factor\frac{lbs}{ton} = Calculated\ Emissions\frac{lbs}{day}$$

Example:

$$500\frac{tons}{hr}\ x\ 16\frac{hrs}{day}\ x\ 0.00014\frac{lbs}{ton} = 1.12\frac{lbs}{day}$$

4.6 COLA Wide Totals

At the bottom of Form 1B there is table for the total emissions for the COLA. Please fill in the totals from all units requested in the COLA application. The total of all emissions for all units must not exceed limits in Section V of the Class II General AQOP for Temporary Construction Sources or in Appendix 1 of this document.

5. SPECIAL USE AREA ADDITIONAL INFORMATION

Forms 1C and 1D only need to be used if a request for a COLA is being made in the areas of Hydrographic Basin (HA) 83 – Tracy Segment listed in the able below. These forms provide the additional information that the BAPC will need to conduct an environmental evaluation.

Township	Range	Sections
19 North	21 East	1, 2, 10 through 14, and 23 through 25
19 North	22 East	All Sections
19 North	23 East	3 through 10, 16 through 21, and 29 through 31
20 North	22 East	24 through 26, 28, 29, and 31 through 36
20 North	23 East	19 through 21, and 27 through 34

Emission Unit Descriptions — These should match the descriptions listed in Forms 1A and 1B.

UTM Coordinates — The specific UTM coordinates for each emission unit. The UTM coordinates must be in metric units using North American Datum of 1983 (NAD 83), Zone 11.

Release Height — The release height is the distance from the top of the emission unit to ground level.

Drop Length — The drop length is how far material falls from one emission unit to the next emission unit (i.e. such as from a conveyor to crusher or stockpile, or a screen to a conveyor).

Emission Unit Dimensions — Provide the physical dimensions of the emission unit - length (L), width (W), and height (H) of the equipment in feet. For example, a feed hopper would be 8

feet long x 6 feed wide x 7 feet high (8x7x6), and a conveyor would be 3 feet wide x 4 feet high (3x4).

Stack Height — Provide the height of the stack in feet (i.e. the height of the stack on the baghouse controlling the HMA Plant).

Stack Inside Diameter — Provide the inside diameter of the stack in feet. If the diameter is non-cylindrical, provide the actual dimensions (LxW).

Stack Flow Rate — Provide the gas volume flow rate through the stack measured in actual cubic feet per minute (acfm).

Stack Exit Velocity — Provide the exit velocity of the of the exhaust gas from the stack measured in feet per second (ft/sec).

Stack Temperature — Provide the temperature of the stack exhaust in degrees Fahrenheit.

Start Time — You may request to operate certain hours of the day. If you choose to do so, provide your start time in this section. Conditions will be written into the COLA accordingly.

End Time — You may request to operate certain hours of the day. If you choose to do so, provide your end time in this section. Conditions will be written into the COLA accordingly.

Corner Number — Provide a map showing the fence line of the COLA operations. Number each corner of the fence line and provide the UTM coordinates for each corner.

6. ADDITIONAL REQUIRED ATTACHMENTS

There are several other attachments that support and contextualize the information the facility provides elsewhere in the application. The BAPC uses these attachments to inform the public of facilities that need permits, prepare the technical review supporting the permit, verify data used in the application, and write permit conditions. Please draft the required attachments in a readable format, with both appropriate font and size.

These attachments are an important part of the application.

The BAPC may have to reject the application if the required attachments are illegible or incomplete.

PROCESS FLOW DIAGRAM(S)

A process flow diagram is a drawing that illustrates how all processes are interconnected. The process flow diagram should include each emission unit(s), drop point(s), and minimum requirements as described in our Guidance Document for Process Flow Diagrams.

Only include information that is relevant to air pollution control. The facility does not need to include the locations of valves and electrical and water plans.

PROCESS NARRATIVE

The process narrative should describe all processes in the application and any renewal or revision details. The goal is to give the BAPC a clear picture of the process of the facility so the BAPC can understand how the facility will monitor emissions and know what to write into the permit. Make sure the process narrative matches the process flow diagram.

Here's a basic outline to follow when drafting the process narrative:

- Specify the location of the facility and its parent company, if part of a larger business (**Example**: Arturo Mine is located 45 miles Northwest of Elko in Elko County, Nevada, Hydrographic Area 61 – Boulder Flat. The mine is part of the Nevada Gold, LLC.).
- Describe what the facility does (**Example:** mining gold ore, crushing and screening aggregates, etc).
- Describe the emission units (equipment) used at the facility. Include information that helps describe what the facility does and how it functions.
- Characterize all regulated air pollutants that may be emitted by each emission unit.
- If the facility is requesting a revision, explain what is going to change and why it is necessary.
- Outline how and where the facility will be monitoring throughputs to show compliance.

MAPS: FACILITY LOCATION AND AREA MAP OF THE FACILITY

Submit the following maps as visible, readable printouts (color optional):

1. A vicinity map that shows the location of the facility with respect to the nearest recognizable city, town, and major road, all labeled. Outline the facility.
2. An area map of the facility with a closer, aerial view that includes the fence line, the location of the front gate, and emission unit locations (clearly labeled).
3. For COLAs located in the Special Area provide the site plan of the entire facility, preferably on an aerial or topographic map (drawn to scale). Include the dimensions scale and north arrow. The site plan should include the UTM coordinates (NAD 83 / UTM Zone 11), though this can be formatted as an excel table for UTM coordinates (NAD 83 / UTM Zone 11) and dimensions. Make sure the facility site plan indicates and labels the locations of systems.

7. APPLICATION CERTIFICATION DOCUMENT

The last page of the Class II air permit application packet is the Application Certification Document — a short summary of the required documents in the application. It must be signed *in ink* by the responsible official (RO) of the company or facility.

Check the boxes next to each submitted document, and make sure the Application Certification Document is signed by the RO listed in Section 6 of the General Company Information Form. Create a digital copy of the application, including all requested documents, and submit a digital and hard copy of the application with the application processing fee. The complete application package can be mailed or hand delivered to the BAPC office (see "Application Submittal and Processing Timeline").

Appendix 1

General Operating Scenarios

Type of Emission Unit		Operating Parameters		Emission Limits (lbs/day)						
		Minimum Setback (meters)	Maximum Daily Hours of Operation	PM	PM_{10}	$PM_{2.5}$	NOx	SO_2	CO	VOC
1	Sand/Gravel Crushing and Screening (ONLY)	50	8	37.73	13.49	1.91	0.00	0.00	0.00	0.00
		50	10	40.67	14.54	2.06	0.00	0.00	0.00	0.00
		50	12	43.05	15.39	2.18	0.00	0.00	0.00	0.00
		50	14	45.03	16.10	2.28	0.00	0.00	0.00	0.00
		50	16	46.51	16.63	2.35	0.00	0.00	0.00	0.00
		75	8	44.53	15.93	2.25	0.00	0.00	0.00	0.00
		75	10	48.09	17.20	2.43	0.00	0.00	0.00	0.00
		75	12	51.03	18.25	2.58	0.00	0.00	0.00	0.00
		75	14	53.26	19.04	2.69	0.00	0.00	0.00	0.00
		75	16	55.42	19.82	2.80	0.00	0.00	0.00	0.00
		100	8	51.71	18.49	2.62	0.00	0.00	0.00	0.00
		100	10	55.82	19.96	2.82	0.00	0.00	0.00	0.00
		100	12	59.38	21.23	3.00	0.00	0.00	0.00	0.00
		100	14	61.92	22.14	3.13	0.00	0.00	0.00	0.00
		100	16	64.58	23.09	3.27	0.00	0.00	0.00	0.00
		200	8	83.50	29.86	4.22	0.00	0.00	0.00	0.00
		200	10	94.02	33.62	4.76	0.00	0.00	0.00	0.00
		200	12	104.66	37.42	5.29	0.00	0.00	0.00	0.00
		200	14	113.01	40.41	5.72	0.00	0.00	0.00	0.00
		200	16	118.26	42.29	5.98	0.00	0.00	0.00	0.00
		300	8	108.00	38.62	5.46	0.00	0.00	0.00	0.00
		300	10	121.85	43.57	6.16	0.00	0.00	0.00	0.00
		300	12	136.39	48.77	6.90	0.00	0.00	0.00	0.00
		300	14	151.11	54.04	7.64	0.00	0.00	0.00	0.00
		300	16	164.28	58.75	8.31	0.00	0.00	0.00	0.00
		400	8	135.83	48.57	6.87	0.00	0.00	0.00	0.00
		400	10	152.32	54.47	7.71	0.00	0.00	0.00	0.00
		400	12	169.79	60.72	8.59	0.00	0.00	0.00	0.00
		400	14	187.70	67.12	9.50	0.00	0.00	0.00	0.00
		400	16	203.87	72.90	10.31	0.00	0.00	0.00	0.00
		500	8	165.03	59.01	8.35	0.00	0.00	0.00	0.00
		500	10	182.31	65.19	9.22	0.00	0.00	0.00	0.00
		500	12	203.00	72.59	10.27	0.00	0.00	0.00	0.00
		500	14	226.01	80.82	11.43	0.00	0.00	0.00	0.00
		500	16	247.17	88.39	12.50	0.00	0.00	0.00	0.00

Type of Emission Unit		Operating Parameters		Emission Limits (lbs/day)						
		Minimum Setback (meters)	Maximum Daily Hours of Operation	PM	PM_{10}	$PM_{2.5}$	NOx	SO_2	CO	VOC
2	Hot Mix Asphalt with Lime Marination (ONLY)	50	8	71.77	58.77	52.48	133.61	26.72	321.94	117.44
		50	10	78.07	63.93	57.09	145.35	29.07	350.23	127.76
		50	12	85.76	70.22	62.70	159.65	31.93	384.70	140.34
		50	14	92.88	76.05	67.91	172.91	34.58	416.64	151.99
		50	16	101.14	82.82	73.95	188.29	37.66	453.70	165.51
		75	8	95.73	78.39	70.00	178.23	35.65	429.46	156.66
		75	10	100.85	82.58	73.74	187.75	37.55	452.40	165.03
		75	12	111.13	91.00	81.25	206.88	41.38	498.51	181.85
		75	14	117.56	96.27	85.96	218.87	43.77	527.38	192.39
		75	16	119.52	97.87	87.39	222.51	44.50	536.16	195.59
		100	8	114.47	93.73	83.70	213.10	42.62	513.49	187.32
		100	10	122.18	100.05	89.34	227.47	45.49	548.11	199.95
		100	12	131.76	107.89	96.34	245.30	49.06	591.07	215.62
		100	14	127.29	104.23	93.08	236.98	47.40	571.03	208.31
		100	16	136.33	111.64	99.69	253.81	50.76	611.58	223.10
		200	8	189.11	154.85	138.28	352.06	70.41	848.34	309.47
		200	10	207.95	170.28	152.05	387.13	77.43	932.84	340.29
		200	12	215.76	176.67	157.76	401.67	80.33	967.87	353.07
		200	14	226.32	185.33	165.48	421.34	84.27	1015.27	370.36
		200	16	236.57	193.72	172.98	440.42	88.08	1061.24	387.13
		300	8	282.07	230.97	206.25	525.12	105.02	1265.34	461.59
		300	10	315.49	258.34	230.69	587.35	117.47	1415.28	516.28
		300	12	326.60	267.44	238.81	608.03	121.61	1465.12	534.47
		300	14	338.54	277.21	247.54	630.25	126.05	1518.66	554.00
		300	16	351.24	287.61	256.82	653.89	130.78	1575.63	574.78
		400	8	366.99	300.51	268.34	683.21	136.64	1646.27	600.55
		400	10	412.82	338.04	301.85	768.54	153.71	1851.90	675.56
		400	12	443.94	363.52	324.60	826.46	165.29	1991.47	726.47
		400	14	466.21	381.76	340.89	867.94	173.59	2091.40	762.93
		400	16	478.99	392.22	350.23	891.72	178.34	2148.71	783.83
		500	8	436.05	357.06	318.83	811.78	162.36	1956.08	713.56
		500	10	480.18	393.20	351.11	893.95	178.79	2154.08	785.79
		500	12	540.13	442.29	394.94	1005.55	201.11	2423.00	883.89
		500	14	590.17	483.27	431.53	1098.71	219.74	2647.48	965.78
		500	16	577.40	472.81	422.19	1074.94	214.99	2590.20	944.88

Type of Emission Unit		Operating Parameters		Emission Limits (lbs/day)						
		Minimum Setback (meters)	Maximum Daily Hours of Operation	PM	PM_{10}	$PM_{2.5}$	NOx	SO_2	CO	VOC
3	Hot Mix Asphalt without Lime Marination (ONLY)	50	8	53.82	46.13	42.39	108.63	21.73	261.75	95.49
		50	10	58.39	50.05	45.99	117.87	23.57	284.02	103.61
		50	12	64.86	55.59	51.09	130.93	26.19	315.48	115.09
		50	14	72.58	62.21	57.17	146.51	29.30	353.04	128.79
		50	16	80.60	69.08	63.48	162.69	32.54	392.02	143.01
		75	8	74.25	63.64	58.48	149.87	29.97	361.12	131.74
		75	10	80.95	69.38	63.76	163.41	32.68	393.74	143.64
		75	12	90.33	77.42	71.14	182.33	36.47	439.34	160.27
		75	14	101.34	86.86	79.82	204.55	40.91	492.90	179.81
		75	16	112.62	96.52	88.70	227.32	45.46	547.76	199.82
		100	8	98.54	84.46	77.61	198.90	39.78	479.28	174.84
		100	10	107.68	92.30	84.81	217.36	43.47	523.76	191.06
		100	12	120.39	103.19	94.82	243.01	48.60	585.56	213.61
		100	14	126.13	108.11	99.34	254.60	50.92	613.49	223.80
		100	16	130.04	111.46	102.42	262.50	52.50	632.51	230.74
		200	8	183.45	157.23	144.49	370.30	74.06	892.28	325.50
		200	10	208.30	178.53	164.06	420.46	84.09	1013.14	369.59
		200	12	210.23	180.19	165.58	424.35	84.87	1022.52	373.01
		200	14	221.90	190.19	174.77	447.91	89.58	1079.28	393.71
		200	16	231.75	198.63	182.53	467.79	93.56	1127.21	411.20
		300	8	283.53	243.01	223.31	572.31	114.46	1379.05	503.07
		300	10	310.22	265.89	244.34	626.19	125.24	1508.87	550.42
		300	12	325.33	278.84	256.24	656.69	131.34	1582.38	577.24
		300	14	342.22	293.31	269.53	690.76	138.15	1664.48	607.19
		300	16	344.43	295.21	271.28	695.24	139.05	1675.26	611.12
		400	8	360.58	309.05	284.00	727.83	145.57	1753.79	639.77
		400	10	394.09	337.77	310.39	795.48	159.10	1916.80	699.24
		400	12	434.17	372.12	341.96	876.38	175.28	2111.74	770.35
		400	14	461.43	395.48	363.43	931.39	186.28	2244.30	818.70
		400	16	466.90	400.17	367.73	942.43	188.49	2270.91	828.41
		500	8	435.67	373.41	343.14	879.40	175.88	2119.02	773.00
		500	10	473.26	405.63	372.75	955.29	191.06	2301.88	839.71
		500	12	508.36	435.71	400.40	1026.14	205.23	2472.60	901.99
		500	14	574.16	492.10	452.21	1158.94	231.79	2792.60	1018.72
		500	16	573.94	491.92	452.05	1158.51	231.70	2791.57	1018.34

Type of Emission Unit		Operating Parameters		Emission Limits (lbs/day)						
		Minimum Setback (meters)	Maximum Daily Hours of Operation	PM	PM_{10}	$PM_{2.5}$	NOx	SO_2	CO	VOC
4	Concrete Batch Plant (ONLY)	50	8	50.75	17.86	2.70	0.00	0.00	0.00	0.00
		50	10	53.92	18.97	2.87	0.00	0.00	0.00	0.00
		50	12	57.68	20.29	3.07	0.00	0.00	0.00	0.00
		50	14	60.62	21.33	3.23	0.00	0.00	0.00	0.00
		50	16	63.89	22.48	3.40	0.00	0.00	0.00	0.00
		75	8	72.62	25.55	3.87	0.00	0.00	0.00	0.00
		75	10	77.88	27.40	4.15	0.00	0.00	0.00	0.00
		75	12	83.33	29.32	4.44	0.00	0.00	0.00	0.00
		75	14	87.50	30.78	4.66	0.00	0.00	0.00	0.00
		75	16	88.89	31.27	4.73	0.00	0.00	0.00	0.00
		100	8	88.49	31.13	4.71	0.00	0.00	0.00	0.00
		100	10	96.73	34.03	5.15	0.00	0.00	0.00	0.00
		100	12	102.38	36.02	5.45	0.00	0.00	0.00	0.00
		100	14	107.64	37.87	5.73	0.00	0.00	0.00	0.00
		100	16	109.52	38.53	5.83	0.00	0.00	0.00	0.00
		200	8	139.29	49.00	7.42	0.00	0.00	0.00	0.00
		200	10	150.79	53.05	8.03	0.00	0.00	0.00	0.00
		200	12	160.12	56.33	8.53	0.00	0.00	0.00	0.00
		200	14	168.75	59.37	8.99	0.00	0.00	0.00	0.00
		200	16	175.40	61.71	9.34	0.00	0.00	0.00	0.00
		300	8	197.62	69.53	10.52	0.00	0.00	0.00	0.00
		300	10	213.29	75.04	11.36	0.00	0.00	0.00	0.00
		300	12	229.17	80.62	12.20	0.00	0.00	0.00	0.00
		300	14	243.06	85.51	12.94	0.00	0.00	0.00	0.00
		300	16	254.76	89.63	13.57	0.00	0.00	0.00	0.00
		400	8	251.19	88.37	13.38	0.00	0.00	0.00	0.00
		400	10	272.82	95.98	14.53	0.00	0.00	0.00	0.00
		400	12	294.64	103.66	15.69	0.00	0.00	0.00	0.00
		400	14	312.50	109.94	16.64	0.00	0.00	0.00	0.00
		400	16	327.78	115.32	17.45	0.00	0.00	0.00	0.00
		500	8	298.02	104.85	15.87	0.00	0.00	0.00	0.00
		500	10	323.91	113.96	17.25	0.00	0.00	0.00	0.00
		500	12	347.62	122.30	18.51	0.00	0.00	0.00	0.00
		500	14	366.67	129.00	19.52	0.00	0.00	0.00	0.00
		500	16	380.95	134.03	20.29	0.00	0.00	0.00	0.00

Type of Emission Unit		Operating Parameters		Emission Limits (lbs/day)						
		Minimum Setback (meters)	Maximum Daily Hours of Operation	PM	PM_{10}	$PM_{2.5}$	NOx	SO_2	CO	VOC
5	Sand/Gravel Crushing and Screening and Hot Mix Asphalt with Lime Marination	50	8	50.17	41.08	36.68	93.39	18.68	225.05	82.10
		50	10	54.49	44.62	39.84	101.44	20.29	244.43	89.17
		50	12	60.47	49.51	44.21	112.57	22.51	271.25	98.95
		50	14	67.71	55.45	49.51	126.06	25.21	303.76	110.81
		50	16	75.39	61.73	55.12	140.35	28.07	338.19	123.37
		75	8	68.59	56.16	50.15	127.69	25.54	307.67	112.24
		75	10	74.83	61.27	54.71	139.30	27.86	335.66	122.45
		75	12	83.39	68.29	60.98	155.25	31.05	374.09	136.47
		75	14	93.61	76.65	68.44	174.27	34.85	419.92	153.18
		75	16	104.32	85.42	76.28	194.21	38.84	467.97	170.71
		100	8	89.11	72.97	65.16	165.89	33.18	399.74	145.82
		100	10	97.42	79.77	71.23	181.37	36.27	437.02	159.42
		100	12	108.84	89.12	79.58	202.62	40.52	488.24	178.11
		100	14	122.22	100.08	89.37	227.54	45.51	548.28	200.01
		100	16	135.85	111.24	99.33	252.91	50.58	609.41	222.31
		200	8	185.16	151.62	135.39	344.71	68.94	830.61	303.00
		200	10	206.69	169.25	151.13	384.79	76.96	927.21	338.24
		200	12	217.26	177.91	158.86	404.47	80.89	974.63	355.54
		200	14	229.18	187.66	167.57	426.65	85.33	1028.07	375.03
		200	16	232.37	190.28	169.91	432.60	86.52	1042.41	380.26
		300	8	244.14	199.91	178.51	454.51	90.90	1095.20	399.52
		300	10	282.42	231.26	206.51	525.78	105.16	1266.94	462.17
		300	12	286.00	234.19	209.12	532.44	106.49	1282.99	468.03
		300	14	316.28	258.99	231.26	588.81	117.76	1418.81	517.57
		300	16	322.34	263.95	235.69	600.09	120.02	1445.99	527.49
		400	8	306.29	250.81	223.96	570.22	114.04	1374.01	501.23
		400	10	335.60	274.81	245.39	624.78	124.96	1505.48	549.19
		400	12	345.97	283.30	252.97	644.09	128.82	1552.01	566.16
		400	14	374.58	306.73	273.89	697.35	139.47	1680.35	612.98
		400	16	395.88	324.17	289.46	737.00	147.40	1775.88	647.83
		500	8	386.49	316.48	282.60	719.52	143.90	1733.77	632.47
		500	10	418.22	342.46	305.80	778.59	155.72	1876.10	684.39
		500	12	430.14	352.22	314.52	800.79	160.16	1929.59	703.90
		500	14	471.33	385.95	344.63	877.46	175.49	2114.34	771.30
		500	16	494.86	405.22	361.84	921.27	184.25	2219.92	809.81

Type of Emission Unit		Operating Parameters		Emission Limits (lbs/day)						
		Minimum Setback (meters)	Maximum Daily Hours of Operation	PM	PM_{10}	$PM_{2.5}$	NOx	SO_2	CO	VOC
6	Sand/Gravel Crushing and Screening and Hot Mix Asphalt without Lime Marination	50	8	48.15	41.27	37.92	97.19	19.44	234.18	85.43
		50	10	52.27	44.80	41.17	105.51	21.10	254.23	92.74
		50	12	57.97	49.69	45.66	117.02	23.40	281.97	102.86
		50	14	64.89	55.62	51.11	130.98	26.20	315.62	115.14
		50	16	72.20	61.88	56.87	145.74	29.15	351.19	128.11
		75	8	66.02	56.58	52.00	133.26	26.65	321.09	117.13
		75	10	72.00	61.71	56.71	145.33	29.07	350.20	127.75
		75	12	80.20	68.74	63.17	161.89	32.38	390.10	142.31
		75	14	89.99	77.13	70.88	181.65	36.33	437.72	159.68
		75	16	100.21	85.89	78.93	202.28	40.46	487.41	177.80
		100	8	85.95	73.67	67.70	173.50	34.70	418.07	152.51
		100	10	93.94	80.52	73.99	189.62	37.92	456.92	166.68
		100	12	104.89	89.90	82.61	211.73	42.35	510.18	186.11
		100	14	117.75	100.92	92.74	237.67	47.53	572.70	208.92
		100	16	130.85	112.15	103.06	264.11	52.82	636.42	232.16
		200	8	175.69	150.58	138.37	354.63	70.93	854.51	311.72
		200	10	192.00	164.56	151.22	387.56	77.51	933.86	340.67
		200	12	205.65	176.26	161.98	415.11	83.02	1000.27	364.89
		200	14	218.71	187.45	172.26	441.47	88.29	1063.77	388.05
		200	16	221.84	190.14	174.73	447.79	89.56	1079.00	393.61
		300	8	232.45	199.23	183.08	469.20	93.84	1130.58	412.43
		300	10	268.78	230.37	211.70	542.54	108.51	1307.32	476.90
		300	12	274.77	235.50	216.42	554.63	110.93	1336.45	487.53
		300	14	299.68	256.85	236.03	604.91	120.98	1457.60	531.72
		300	16	308.71	264.59	243.15	623.14	124.63	1501.52	547.74
		400	8	298.57	255.90	235.16	602.66	120.53	1452.18	529.74
		400	10	324.44	278.08	255.54	654.89	130.98	1578.05	575.66
		400	12	336.49	288.41	265.03	679.22	135.84	1636.66	597.04
		400	14	356.49	305.54	280.77	719.57	143.91	1733.90	632.51
		400	16	374.87	321.29	295.25	756.67	151.33	1823.29	665.12
		500	8	373.40	320.04	294.10	753.72	150.74	1816.17	662.53
		500	10	421.42	361.20	331.92	850.65	170.13	2049.74	747.73
		500	12	423.08	362.61	333.22	853.98	170.80	2057.78	750.66
		500	14	466.37	399.72	367.32	941.37	188.27	2268.35	827.48
		500	16	480.96	412.23	378.82	970.83	194.17	2339.34	853.37

Type of Emission Unit		Operating Parameters		Emission Limits (lbs/day)						
		Minimum Setback (meters)	Maximum Daily Hours of Operation	PM	PM_{10}	$PM_{2.5}$	NOx	SO_2	CO	VOC
7	Sand/Gravel Crushing and Screening and Concrete Batch Plant	50	8	56.08	19.81	2.95	0.00	0.00	0.00	0.00
		50	10	60.88	21.50	3.20	0.00	0.00	0.00	0.00
		50	12	67.80	23.95	3.57	0.00	0.00	0.00	0.00
		50	14	76.02	26.85	4.00	0.00	0.00	0.00	0.00
		50	16	84.80	29.95	4.46	0.00	0.00	0.00	0.00
		75	8	82.34	29.08	4.33	0.00	0.00	0.00	0.00
		75	10	89.80	31.72	4.73	0.00	0.00	0.00	0.00
		75	12	100.51	35.50	5.29	0.00	0.00	0.00	0.00
		75	14	110.31	38.96	5.80	0.00	0.00	0.00	0.00
		75	16	113.46	40.07	5.97	0.00	0.00	0.00	0.00
		100	8	112.51	39.74	5.92	0.00	0.00	0.00	0.00
		100	10	123.04	43.46	6.47	0.00	0.00	0.00	0.00
		100	12	129.55	45.76	6.82	0.00	0.00	0.00	0.00
		100	14	135.97	48.02	7.15	0.00	0.00	0.00	0.00
		100	16	140.53	49.63	7.39	0.00	0.00	0.00	0.00
		200	8	190.67	67.34	10.03	0.00	0.00	0.00	0.00
		200	10	204.21	72.13	10.75	0.00	0.00	0.00	0.00
		200	12	217.45	76.80	11.44	0.00	0.00	0.00	0.00
		200	14	230.51	81.41	12.13	0.00	0.00	0.00	0.00
		200	16	241.54	85.31	12.71	0.00	0.00	0.00	0.00
		300	8	242.42	85.62	12.76	0.00	0.00	0.00	0.00
		300	10	260.01	91.83	13.68	0.00	0.00	0.00	0.00
		300	12	279.82	98.83	14.72	0.00	0.00	0.00	0.00
		300	14	296.30	104.65	15.59	0.00	0.00	0.00	0.00
		300	16	309.23	109.22	16.27	0.00	0.00	0.00	0.00
		400	8	303.51	107.20	15.97	0.00	0.00	0.00	0.00
		400	10	325.33	114.90	17.12	0.00	0.00	0.00	0.00
		400	12	348.79	123.19	18.35	0.00	0.00	0.00	0.00
		400	14	368.35	130.10	19.38	0.00	0.00	0.00	0.00
		400	16	383.07	135.29	20.16	0.00	0.00	0.00	0.00
		500	8	343.60	121.36	18.08	0.00	0.00	0.00	0.00
		500	10	381.69	134.81	20.08	0.00	0.00	0.00	0.00
		500	12	414.25	146.31	21.80	0.00	0.00	0.00	0.00
		500	14	437.30	154.45	23.01	0.00	0.00	0.00	0.00
		500	16	454.92	160.67	23.94	0.00	0.00	0.00	0.00

Type of Emission Unit		Operating Parameters		Emission Limits (lbs/day)						
		Minimum Setback (meters)	Maximum Daily Hours of Operation	PM	PM_{10}	$PM_{2.5}$	NOx	SO_2	CO	VOC
8	Sand/Gravel Crushing and Screening, Hot Mix Asphalt with Lime Marination, and Concrete Batching	50	8	34.94	28.61	25.55	65.04	13.01	156.72	57.17
		50	10	37.87	31.01	27.69	70.50	14.10	169.88	61.97
		50	12	42.05	34.44	30.75	78.29	15.66	188.65	68.82
		50	14	46.96	38.45	34.34	87.43	17.49	210.66	76.85
		50	16	52.20	42.75	38.17	97.19	19.44	234.18	85.43
		75	8	49.30	40.37	36.05	91.78	18.36	221.16	80.68
		75	10	53.56	43.85	39.16	99.70	19.94	240.25	87.64
		75	12	59.57	48.78	43.55	110.89	22.18	267.21	97.48
		75	14	66.70	54.62	48.77	124.17	24.83	299.20	109.15
		75	16	73.69	60.34	53.88	137.19	27.44	330.58	120.59
		100	8	63.98	52.39	46.78	119.11	23.82	287.01	104.70
		100	10	69.57	56.97	50.87	129.53	25.91	312.11	113.85
		100	12	77.55	63.51	56.71	144.38	28.88	347.91	126.91
		100	14	86.98	71.22	63.60	161.93	32.39	390.19	142.34
		100	16	90.67	74.25	66.30	168.80	33.76	406.75	148.38
		200	8	122.54	100.34	89.60	228.13	45.63	549.71	200.53
		200	10	134.89	110.46	98.63	251.13	50.23	605.13	220.75
		200	12	142.82	116.95	104.43	265.89	53.18	640.69	233.72
		200	14	147.03	120.39	107.51	273.72	54.74	659.56	240.60
		200	16	153.17	125.42	112.00	285.16	57.03	687.12	250.65
		300	8	154.59	126.59	113.04	287.80	57.56	693.50	252.98
		300	10	165.23	135.30	120.81	307.60	61.52	741.21	270.39
		300	12	176.38	144.43	128.97	328.36	65.67	791.23	288.64
		300	14	185.81	152.15	135.86	345.91	69.18	833.52	304.06
		300	16	192.58	157.70	140.82	358.53	71.71	863.92	315.15
		400	8	179.46	146.95	131.22	334.09	66.82	805.04	293.67
		400	10	192.70	157.80	140.90	358.75	71.75	864.46	315.35
		400	12	204.91	167.79	149.83	381.48	76.30	919.22	335.33
		400	14	214.36	175.53	156.73	399.06	79.81	961.58	350.78
		400	16	222.17	181.92	162.45	413.60	82.72	996.62	363.56
		500	8	201.56	165.05	147.38	375.24	75.05	904.19	329.84
		500	10	227.56	186.34	166.39	423.64	84.73	1020.82	372.39
		500	12	247.78	202.90	181.17	461.29	92.26	1111.53	405.48
		500	14	261.18	213.86	190.97	486.22	97.24	1171.62	427.40
		500	16	271.26	222.12	198.34	505.00	101.00	1216.85	443.90

Type of Emission Unit		Operating Parameters		Emission Limits (lbs/day)						
		Minimum Setback (meters)	Maximum Daily Hours of Operation	PM	PM_{10}	$PM_{2.5}$	NOx	SO_2	CO	VOC
9	Sand/Gravel Crushing and Screening, Hot Mix Asphalt without Lime Marination, and Concrete Batching	50	8	32.52	27.87	25.61	65.64	13.13	158.17	57.70
		50	10	35.25	30.22	27.77	71.16	14.23	171.47	62.55
		50	12	39.16	33.56	30.84	79.04	15.81	190.46	69.48
		50	14	43.73	37.48	34.44	88.27	17.65	212.70	77.59
		50	16	48.60	41.66	38.28	98.10	19.62	236.39	86.23
		75	8	46.02	39.45	36.25	92.90	18.58	223.86	81.66
		75	10	50.01	42.86	39.38	100.94	20.19	243.22	88.72
		75	12	55.64	47.69	43.82	112.31	22.46	270.61	98.72
		75	14	62.29	53.38	49.06	125.73	25.15	302.95	110.51
		75	16	69.13	59.25	54.45	139.53	27.91	336.22	122.65
		100	8	59.93	51.37	47.20	120.97	24.19	291.50	106.34
		100	10	65.19	55.87	51.34	131.58	26.32	317.06	115.66
		100	12	72.69	62.30	57.25	146.72	29.34	353.53	128.97
		100	14	81.51	69.86	64.20	164.53	32.91	396.46	144.63
		100	16	85.26	73.07	67.15	172.09	34.42	414.68	151.27
		200	8	115.25	98.78	90.77	232.64	46.53	560.57	204.49
		200	10	125.38	107.46	98.75	253.08	50.62	609.82	222.46
		200	12	132.65	113.69	104.47	267.75	53.55	645.17	235.35
		200	14	138.47	118.68	109.06	279.51	55.90	673.51	245.69
		200	16	143.26	122.79	112.83	289.17	57.83	696.79	254.18
		300	8	144.51	123.86	113.82	291.69	58.34	702.87	256.40
		300	10	154.43	132.36	121.63	311.72	62.34	751.12	274.00
		300	12	164.78	141.23	129.78	332.61	66.52	801.47	292.37
		300	14	173.32	148.55	136.51	349.86	69.97	843.02	307.53
		300	16	179.77	154.08	141.59	362.88	72.58	874.40	318.97
		400	8	169.54	145.31	133.53	342.21	68.44	824.61	300.81
		400	10	182.04	156.03	143.38	367.46	73.49	885.43	323.00
		400	12	193.46	165.81	152.37	390.50	78.10	940.95	343.25
		400	14	202.07	173.19	159.16	407.88	81.58	982.85	358.54
		400	16	209.59	179.63	165.07	423.05	84.61	1019.39	371.87
		500	8	191.80	164.39	151.06	387.15	77.43	932.88	340.31
		500	10	216.28	185.37	170.35	436.57	87.31	1051.96	383.75
		500	12	234.58	201.06	184.76	473.51	94.70	1140.98	416.22
		500	14	247.74	212.34	195.13	500.07	100.01	1204.98	439.57
		500	16	257.55	220.74	202.85	519.87	103.97	1252.69	456.97