

San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.1.2*

Last Update: 7/31/2018

**Sand, Gravel, Aggregate, Recycled Asphalt & Recycled Concrete: Processing,
Crushing, Screening and Storage Operations**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	<p>1) CRUSHING: Water sprays allowing visible emissions no greater than 12% opacity as measured using EPA Method 9 (Visible Opacity)</p> <p>2) SCREENING: Water sprays allowing visible emissions no greater than 7% opacity as measured using EPA Method 9 (Visible Opacity)</p> <p>3) CONVEYORS/TRANSFER POINT: Water sprays allowing visible emissions no greater than 7% opacity as measured using EPA Method 9 (Visible Opacity)</p> <p>4) STORAGE (PILES): Water sprays allowing visible emissions no greater than 20% opacity as measured using EPA Method 9 (Visible Opacity)</p>	<p>1) CRUSHING: Charged fog spray or water spray with chemical additives</p> <p>2) STORAGE (PILES): Water spray with chemical suppressant</p>	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.1.3*

Last Update: 4/21/2020

Sand Dryer - Fluidized Bed *RESCINDED*

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.1.5*

Last Update: 4/21/2020

**Rotary Aggregate Dryer - Remote Location Where Commercial
Natural Gas is Not Available, (< or =) 15 tons aggregate/hr or (< or =) 22.7
MMBtu/hr burner *RESCINDED***

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.1.6*

Last Update: 6/26/1998

**Bulk Storage and Handling - Non-White Commodities*
One Acre or Greater Storage Area**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Outdoor storage with use of water spray or fog, or surfactants to maintain an adequate material moisture content such that the maximum opacity will not exceed 5%.	Enclosed storage area	

* "Non-White Commodities" is defined as coal, coke, sulfur, iron slag, iron ore, copper concentrates, and iron pellets.

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.2.2*

Last Update: 7/31/2018

Concrete Batch Plant

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	<p>1) SAND/AGGREGATE STORAGE: Outdoor storage piles adequately wetted a) to prevent visible emissions > 5% opacity, or b) with minimum moisture content of 2% for aggregate and 4% for sand</p> <p>2) SAND/AGGREGATE HANDLING (ALL TRANSFER POINTS): Water sprays on all transfer points to prevent visible emissions > 5% opacity</p> <p>3) SAND/AGGREGATE WEIGH BATCHER: Material adequately wetted to prevent visible emissions > 5% opacity</p> <p>4) STORAGE SILOS for CEMENT, FLYASH and OTHER SUPPLEMENTS: Enclosed silo vented to a control device with 99% efficiency (baghouse, bin vent or equivalent)</p> <p>5) CEMENT/FLYASH/SUPPLEMENTS WEIGH BATCHER: Enclosed weigh batcher vented to a control device with 99% efficiency (baghouse or equivalent)</p> <p>6) TRANSIT-MIXED TRUCK LOADING: Loading operation enclosed by a flexible shroud which seals to the truck and is vented to a control device with 99% efficiency (baghouse or equivalent)</p> <p>7) CENTRAL MIXER LOADING: a) < 5 yd³ batch capacity: enclosed mixer with water sprays, b) > or = 5 yd³ batch capacity: enclosed mixer vented to a control device with 99% efficiency</p>	<p>1) SAND/AGGREGATE STORAGE: Enclosed storage (building, silo, or equivalent) vented to a control device with 99% control efficiency (baghouse or equivalent)</p> <p>2) CENTRAL MIXER LOADING: < 5 cubic yard batch capacity: enclosed mixer vented to a control device with 99% control efficiency (baghouse or equivalent)</p>	

San Joaquin Valley Unified Air Pollution Control District

(baghouse or equivalent)

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.2.3*

Last Update: 4/21/2020

**Portland cement bagging machine - Dry Mix, (= or >) 1292 tons/day of
cement or (= or >) 1292 tons/day of concrete or (= or >) 1292 tons/day of cement
plus concrete *RESCINDED***

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.2.4*

Last Update: 4/30/2020

Portland Concrete Products Manufacturing - Tumbler

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Cartridge or fabric filter dust collector		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.2.5*

Last Update: 2/15/2002

**Portland Concrete Products Processing – Roof Tile
Coating, Continuous Feed Booth**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	Use of coating(s) with a VOC content of 0.8 lb/gal (less water and exempt compounds), or lower:	Capture and control using an enclosed booth, or equivalent, and thermal incineration system.	
PM10	Booth with an overspray capture system and HVLP spray equipment, or equal.	Capture and control using an enclosed booth, or equivalent, and catalytic incineration system.	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.2.6*

Last Update: 11/26/2002

**Portland Concrete Batch Plant - Auger Mixing
System, = or < 360 cy/day**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Sand and aggregate storage piles wetted to prevent visible emissions > 5% opacity; cement storage silos served by a bin vent filter; and enclosed conveyor, auger, wet mixing chamber and blender discharge system.	<p>1. Sand and aggregate storage piles wetted to prevent visible emissions > 5% opacity; cement storage silos served by a bin vent filter; and enclosed conveyor, auger, mixing chamber and blender discharge system all venting to a baghouse.</p> <p>2. Sand and aggregate storage piles wetted to prevent visible emissions > 5% opacity; cement storage silos served by a bin vent filter; and enclosed conveyor, auger, water-spray mixing chamber and blender discharge system.</p>	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.2.7*

Last Update: 12/30/2020

Concrete Roofing Tile Mold Releasing Oil Application Operation

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	Use of mold releasing oils with a vapor pressure less than 2 mm Hg at 20 °C	1) VOC capture and control with incineration (98% overall control efficiency) 2) VOC capture and control with carbon adsorption (95% overall control efficiency)	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.3.1*

Last Update: 8/23/2018

Asphaltic Concrete - Mix Plant

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	Enclosed hot mix silos and loadout operation vented to rotary dryer burner		
SOx	Natural gas or LPG as primary fuel		
PM10	Rotary drum vented to fabric collector or Venturi scrubber with centrifugal separator; enclosed conveyors, hot mix storage silos, two sided truck loadout; all vented to dryer or electrostatic precipitator or filter; and natural gas or LPG as a primary fuel		
NOx	3.5 ppmv @ 19% O2 using Low-NOx burner and either natural gas or LPG as primary fuel		
CO	42 ppmv @ 19% O2 using and either natural gas or LPG as primary fuel		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.3.2*

Last Update: 4/21/2020

Asphalt Treating Unit *RESCINDED*

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.3.4*

Last Update: 10/10/2019

**Asphalt Shingle Mfg. - Dry Material Receiving, Storage, and Processing
Operations**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Use of a baghouse/dust collector serving silos, enclosed conveyors, and process equipment with visible emissions not to exceed 1% opacity		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.3.5*

Last Update: 4/21/2020

Asphalt Roofing Shingle Mfg. - Process Heater, = or > 8 MMBtu/hr *RESCINDED*

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.3.6*

Last Update: 4/21/2020

**Asphalt Roofing Product Mfg. - Coating Operation, >
100 tons/day *RESCINDED***

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.3.7*

Last Update: 4/21/2020

Asphalt-Based Roofing Products - Mixer *RESCINDED*

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.4.1*

Last Update: 4/3/1998

**Composted Materials - Screening, Transportable, Wood Waste
Processing**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Use of a water sprinkler system or maintaining adequate moisture content of the process materials to prevent visible emissions in excess of 5% opacity		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.4.2*

Last Update: 3/10/2020

Tub Grinder - Transportable, Wood Waste Processing

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Use of a water sprinkler system or maintaining adequate moisture content of the process materials to prevent visible emissions in excess of 5% opacity		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.4.3*

Last Update: 7/16/2018

Green Waste, Wood Waste, and Composted Material - Transfer & Screening

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Process materials with moisture content $\geq 25\%$ and $\leq 30\%$; visible emissions not to exceed 5% opacity	1) Baghouse serving screen and enclosed conveyors 2) Baghouse serving screen and process materials with moisture content $\geq 25\%$ and $\leq 30\%$	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.4.4*

Last Update: 5/18/2020

Composted Materials - Potting Soil Mixing and Bagging Operation *RESCINDED*

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San Joaquin Valley
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Best Available Control Technology (BACT) Guideline 6.4.5*

Last Update: 8/24/2020

Biomass – Fuel Receiving, Handling, and Storage

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	<p>BIOMASS FUEL STACKING AND OPEN STORAGE</p> <p>Dust suppression to limit visible emissions from unloading/stacking operations and open storage areas to prevent visible emissions in excess of 5% opacity for any 3 minutes in any one hour period</p> <p>BIOMASS FUEL PROCESSING, INCLUDING: RECEIVING, SCREENING, GRINDING, FINES REMOVAL, AND CONVEYING AND HANDLING</p> <p>Receiving bin, screens, grinder, fines removal and augers, elevators, and conveyors all enclosed and vented to fabric filter baghouse</p>		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.4.6*

Last Update: 4/21/2020

Composted Materials - Hydromulch Dryer *RESCINDED*

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Best Available Control Technology (BACT) Guideline 6.4.7*

Last Update: 11/21/2018

Co-Composting with Green and Food Materials and Biosolids ~~RESCINDED**~~**

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.4.8*

Last Update: 12/19/2016

Manure Composting (< 20,000 wet-tons/year)

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	Class One Mitigation Measures from District Rule 4565 (10% control)	<ol style="list-style-type: none"> 1. Enclosed and vented to wet scrubber (99% control) 2. Enclosed and vented to carbon adsorption unit (95% control) 3. Enclosed and vented to biofilter (91% control) 4a. Positively aerated static piles with cover (cover is engineered, 6-12 inches of finished compost, or equivalent) (active phase and curing phase if cured) (80% control) 4b. Negatively aerated static piles with cover (cover is engineered, 6-12 inches of finished compost, or equivalent) venting to biofilter or equivalent (active phase and curing phase if cured) (80% control) 5. Cover with 6 inches of finished compost upon initial windrow formation and within 3 hours of each turning (56% control) 	
NH3	Class One Mitigation Measures from District Rule 4565 (10% control)	<ol style="list-style-type: none"> 1. Enclosed and vented to wet scrubber (99% control) 2. Enclosed and vented to carbon adsorption unit (95% control) 3a. Positively aerated static piles with cover (cover is engineered, 6-12 inches of finished compost, or equivalent) (active phase and curing phase if cured) (80% control) 3b. Negatively aerated static piles with cover (cover is engineered, 6-12 inches of finished compost, or equivalent) venting to biofilter or equivalent (active phase and curing phase if cured) (80% control) 4. Enclosed and vented to biofilter (56% control) 5. Cover with 6 inches of finished compost upon initial windrow formation and within 3 hours of each turning (56% control) 	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.4.9*

Last Update: 11/21/2018

**Co-Composting Operation with Green and Food Materials and Manure: < 20,000
ton/year throughput ****RESCINDED******

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.4.10*

Last Update: 9/17/2015

***RESERVED* for future Organic Materials (Green, Wood, and Food Materials)
Composting**

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.4.11*

Last Update: 11/21/2018

**Co-Composting with Green and Food Materials and Manure: > or = 20,000
ton/year ****RESCINDED******

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San Joaquin Valley
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Best Available Control Technology (BACT) Guideline 6.4.14*

Last Update: 6/16/2016

Biosolids Storage (Not Intended for Composting)

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC and NH3	Cover piles with waterproof cover, at least 6 inches of finished compost, or at least 6 inches of soil within 3 hours of receipt at the facility. (10% VOC & NH3)	Store piles inside an enclosure venting to VOC & NH3 control device(s) (e.g. biofilter or equivalent). (80% VOC & NH3)	

6.4.12 and 6.4.13 were skipped and are being reserved for green waste composting. These guidelines have not existed to this point yet.

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.5.1*

Last Update: 4/30/2020

Synthetic Stone Products Manufacturing

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Capture and Control with a Baghouse or Equivalent Control Device		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 6.5.2*

Last Update: 7/28/2021

Soda Ash Loading into Cargo Ships

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	<p>Use of an engineered telescopic spout consisting of inner and outer sleeve with a neoprene (or other similar durable material) skirt vented to a dust collection system.</p> <p>During loading, the telescopic spout shall be operated in a manner that maintains minimum drop height of the material such that the loading process remains in compliance with permitted visible emission limit(s).</p> <p>(98% control)</p>		

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