SMAQMD BACT CLEARINGHOUSE

ACTIVE					
CATEGORY Type:	MATERIAL	- HANDLII	NG		
BACT Category:	Small Emitter BA	<u>CT (PTE <10lb</u>	/day)		
BACT Determination Number:	368	BACT De	etermination Date:		10/22/2024
	Equ	uipment Info	ormation		
Permit Number:	N/A - Gene	eric BACT Dete	rmination		
Equipment Description:	Constructio	on and Demolit	ion/Mixed Debris Sc	orting Lines	
Unit Size/Rating/Capacity:	ALL				
Equipment Location:	N/A - Gene	N/A - Generic BACT Determination			
	BACT De	terminatio	n Informatior	ı	
District Contact: Felix Trujillo, Jr. Phone No.: (279) 207-1154 Email: ftru			ijillo@airquality.org		
ROCs Standard:					
Technolog Descriptio	ly n:				
Basis:					
NOx Standard:					
Technolog Descriptio	n:				
Basis:					
SOx Standard:					
Technolog Descriptio	ly n:				
Basis:					
PM10 Standard:					
Technolog Descriptio	y Use of water n: stockpiles as	r spray equipm s necessary to	ent on conveyors, so control fugitive emis	creens, transfer ssions.	points and
Basis:	Achieved in	Practice			
PM2.5 Standard:					
Technolog Descriptio	y Use of water n: stockpiles as	r spray equipm s necessary to	ent on conveyors, so control fugitive emis	creens, transfer ssions.	points and
Basis:	Achieved in	Practice			
CO Standard:					
Technolog	ıy n:				

		Basis:	
	LEAD	Standard:	
		Technology Description:	
		Basis:	
С	omments:	This is a generic other air agencie	BACT determination based on BACT determinations made, and published, by s in California and/or other States.
Р	rinted:	10/23/2024	



BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION

DETERMINATION NO.:	368
DATE:	9/5/24
ENGINEER:	Felix Trujillo, Jr.

Category/General Equip Description:	Material Processing
Equipment Specific Description:	Construction and Demolition/Mixed Debris Sorting Lines
Equipment Size/Rating:	Small Emitter BACT (< 10 lb/day)/Minor Source
Previous BACT Determination No.:	301

This BACT determination will update Determination #301 (1/19/22) for stationary construction and demolition/mixed debris sorting lines, including screening, conveying equipment and stockpiles. This BACT will cover operations that fall under the small emitter and minor source BACT category.

In general, construction and demolition/mixed debris sorting lines process material at constructon and demolition processing facilities. These lines process construction and demolition debris for recycling purposes. The lines consist of a feed hopper that is fed via a front-end loader, transfer conveyors, processing screens and stockpiles.

The District's Small Emitter and "Otherwise-Exempt Equipment" BACT Determinations policy states that units which are classified as small emitters (less than 10 lbs/day of VOC, NOx, SOx, PM10, or PM2.5 and less than 550 lbs/day of CO) and are located at non-major stationary sources are only required to meet BACT standards that have been achieved in practice. Therefore, this BACT determination will only be based on what is achieved in practice and will be only applied to small emitters at non-major sources. BACT will be evaluated on a case-by-case basis for units that do not fit this criteria.

A. BACT ANALYSIS:

Pursuant to the District's BACT Guidelines (2016), a review of the EPA, CARB, SCAQMD, SJVAPCD, BAAQMD and SDAPCD BACT Clearinghouses was performed. The District also reviewed any applicable rules from the aforementioned air districts that apply to this type of operation. The review of these sources showed no change in the rules or BACTs that were previously evaluated under BACT No. 301. BACT No. 301 will be attached as a reference for

this BACT determination (see Appendix A).

BACT No. 301 updated BACT No. 195, which applied to small emitters and minor sources. Since this BACT will apply to small emitters and minor sources, the Technology Feasible section listed in BACT No. 195 remains valid and is included as an attachment to the BACT determination of BACT No. 301, which is included in Appendix A of this document.

B. <u>SELECTION OF BACT:</u>

Small emitter BACT (< 10 lb/day) & Minor Source BACT for a construction and demolition/mixed debris sorting lines is the following:

BACT # 368 for a Construction and Demolitio/Mixed Debris Sorting Lines			
Pollutant	Standard	Source	
VOC	No Standard		
NOx	No Standard		
SOx	No Standard		
PM10	Use of water spray equipment on conveyors, screens, transfer points and stockpiles as necessary to control fugitive emissions	SMAQMD	
PM2.5	Use of water spray equipment on conveyors, screens, transfer points and stockpiles as necessary to control fugitive emissions	SMAQMD	
СО	No Standard		

APPROVED BY: Brian 7 Krebs DATE: 10-22-2024





BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION

DETERMINATION NO.:	301
DATE:	12/16/21
ENGINEER:	Felix Trujillo, Jr.

Category/General Equip Description:	Material Processing
Equipment Specific Description:	Construction and Demolition/Mixed Debris Sorting Lines
Equipment Size/Rating:	Small Emitter BACT (< 10 lb/day)
Previous BACT Determination No.:	195

This BACT determination will update Determination #195 (10/19/18) for stationary construction and demolition/mixed debris sorting lines, including screening, conveying equipment and stockpiles.

BACT 195 was determined under the project for A/C's 25563 and 25564 (Zanker Road Resource Management, Ltd.). This BACT will be determined under the project for A/C 27023 for the same facility. Since the emissions from these types of operations are low (< 10 lb/day), this new determination will only apply to small emitters.

The District's Small Emitter and "Otherwise-Exempt Equipment" BACT Determinations policy states that units which are classified as small emitters (less than 10 lbs/day of VOC, NOx, SOx, PM10, or PM2.5 and less than 550 lbs/day of CO) and are located at non-major stationary sources are only required to meet BACT standards that have been achieved in practice. Therefore, this BACT determination will only be based on what is achieved in practice and will be only applied to small emitters at non-major sources. BACT will be evaluated on a case-by-case basis for units that do not fit this criteria.

In general, construction and demolition/mixed debris sorting lines process material at constructon and demolition processing facilities. These lines process construction and demolition debris for recycling purposes. The lines consist of a feed hopper that is fed via a front-end loader, transfer conveyors, processing screens and stockpiles.

A. BACT ANALYSIS:

Pursuant to the District's BACT Guidelines (2016), a review of the EPA, CARB, SCAQMD, SJVAPCD, BAAQMD and SDAPCD BACT Clearinghouses was performed. The District also reviewed any applicable rules from the aforementioned air districts that apply to this type of operation. The review of these sources showed no change in the rules or BACTs that were previously evaluated under BACT No. 195. BACT No. 195 will be attached as a reference for this BACT determination (see Appendix A).

B. SELECTION OF BACT:

Small emitter BACT (< 10 lb/day) for a construction and demolition/mixed debris sorting lines is the following:

BACT # 301 For a Construction and Demolitio/Mixed Debris Sorting Lines			
Pollutant	Standard	Source	
VOC	No Standard		
NOx	No Standard		
SOx	No Standard		
PM10	Use of water spray equipment on conveyors, screens, transfer points and stockpiles as necessary to control fugitive emissions	SMAQMD	
PM2.5	Use of water spray equipment on conveyors, screens, transfer points and stockpiles as necessary to control fugitive emissions	SMAQMD	
СО	No Standard		

APPROVED BY:

DATE: _____



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SMAQMD BACT CLEARINGHOUSE

CATEGOR	Y:	MA	TERIAL	PROCESSING	
BACT Size:	Small Emitter	BACT (< 10lb/day)	/Minor So T	RUCTION & DEMOLITION DEE	RIS SORTING LIN
BACT Dete	ermination Numbe	e r: 195	ВА	CT Determination Date:	10/19/2018
		Equip	ment Info	rmation	
Permit Nu	mber: 25563				
Equipmen	t Description:	CONSTRUCTIO	N & DEMOL	ITION DEBRIS SORTING LINE	
Unit Size/F	Rating/Capacity:				
Equipmen	t Location:	ZANKER ROAD	RESOURCE	E MGMT, LTD DBA FLORIN PER	RKINS
		4201 FLORIN PI	ERKINS RD		
٦		SACRAMENTO,	CA		
		BACT Deter	mination	Information	
ROCs	Standard:				
	Technology				
	Description:				
	Basis:				
NOx	Standard:				
	Technology				
	Description:				
	Basis:				
SOx	Standard:	<u>.</u>			
	Technology				
	Basic:			•	
	Standard				
PINITO	Technology	Use of water spray equ	ipment on conv	eyors, screens, transfer points and stock	piles as necessary to
	Description:	control fugitive emissio	ins.		
	Basis:	Achieved in Practice		· · · · · · · · · · · · · · · · · · ·	
PM2 5	Standard:				
F WIZ.5	Technology Description:	Use of water spray equ control fugitive emissio	ipment on conv	eyors, screens, transfer points and stock	piles as necessary to
	Basis:	Achieved in Practice			<u>.</u>
со	Standard:				
	Technology				
	Description:				
	Basis:				
LEAD	Standard:				
	lechnology				
	Description:				
	JUdolo.				

District Contact: Felix Trujillo

Phone No.: (916) 874 - 7357 email: ftrujillo@airquality.org

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SACRAMENTO METROPOLITAN



BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION

DETERMINATION NO.:	195
DATE:	October 19, 2018
ENGINEER:	Felix Trujillo, Jr.

Category/General Equip Description:	Material Processing
Equipment Specific Description:	Construction and Demolition/Mixed Debris Sorting Lines
Equipment Size/Rating:	Small Emitter BACT (< 10 lb/day)/Minor Source
Previous BACT Det. No.:	None

This BACT determination will apply to stationary construction and demolition/mixed debris sorting lines, including screening, conveying equipment and stockpiles.

This BACT was determined under the project for A/C's 25563 and 25564 (Zanker Road Resource Management, Ltd.).

BACT ANALYSIS

A: ACHIEVED IN PRACTICE (Rule 202, §205.1a)

The following control technologies are currently employed as BACT for construction and demolition/mixed debris sorting system:

District/Agency	Best Available Control Technology (BACT)/Requirements	
	BACT Source: EPA RACT/BACT/LAER Clearinghouse	
	The EPA RACT/BACT/LAER Clearinghouse does not have a BACT determination for this source category.	
US EPA	ERQUIREMENTS:	

BACT Determination No. 195 Construction and Demolition/Mixed Debris Sorting Lines Page 2 of 4

District/Agency	Best Available Control Technology (BACT)/Requirements		
ARB	BACT Source: ARB BACT Clearinghouse The ARB BACT Clearinghouse does not have a BACT determination for this source category. RULE REQUIREMENTS: None		
SMAQMD	BACT Source: <u>SMAQMD BACT Clearinghouse</u> The SMAQMD does not have a BACT determination for this source category. <u>RULE REQUIREMENTS</u> : None		
South Coast AQMD	BACT Source: SCAQMD BACT Clearinghouse for Non-Major Polluting Facilities. The SCAQMD does not have a BACT determination for this source category. RULE REQUIREMENTS: None		
San Diego County APCD	BACT Source: SDCAPCD BACT Clearinghouse The SDAPCD does not have a BACT determination for this source category. RULE REQUIREMENTS: None		
Bay Area AQMD	BACT Source: BAAQMD BACT Clearinghouse Bay Area The BAAQMD does not have a BACT determination for this source category. AQMD RULE REQUIREMENTS: None None		
San Joaquin Valley APCD The SJVAPCD does not have a BACT determination for this source category.			

BACT Determination No. 195 Construction and Demolition/Mixed Debris Sorting Lines Page 3 of 4

District/Agency	Best Available Control Technology (BACT)/Requirements	
	RULE REQUIREMENTS: None	

The following control technologies have been identified and are ranked based on stringency:

SUMMARY OF ACHIEVED IN PRACTICE CONTROL TECHNOLOGIES			
Pollutant	Standard	Source	
VOC	No Standard		
NOx	No Standard		
SOx	No Standard		
PM10	No Standard		
PM2.5	No Standard		
СО	No Standard		

The following control technologies have been identified as the most stringent, achieved in practice control technologies:

BEST CONTROL TECHNOLOGIES ACHIEVED (A)			
Pollutant	Standard	Source	
VOC	No Standard		
NOx	No Standard		
SOx	No Standard		
PM10	No Standard		
CO	No Standard		

B. TECHNOLOGICALLY FEASIBLE AND COST EFFECTIVE (Rule 202, §205.1.b.):

Technologically Feasible Alternatives:

Any alternative basic equipment, fuel, process, emission control device or technique, singly or in combination, determined to be technologically feasible by the Air Pollution Control Officer. The table below shows the technologically feasible alternatives identified as capable of reducing emissions beyond the levels determined to be "Achieved in Practice" as per Rule 202, §205.1.a.

Pollutant	Technologically Feasible Alternatives (A)	
VOC	Not applicable	
NOx	Not applicable	
SOx	Not applicable	
PM10	 Use of water spray equipment on conveyors, screens, transfer points and stockpiles as necessary to control fugitive emissions Full enclosure of processing equipment served by a Baghouse, Enclosed processing equipment. 	
PM2.5	Same as PM10	
CO	Not applicable	

(A) Alternatives are discussed below

PM10 and PM2.5 – Alternative 1:

Although, there are no specific BACTs for these types of operations listed in the above

BACT Determination No. 195 Construction and Demolition/Mixed Debris Sorting Lines Page 4 of 4

BACT clearinghouses, the use of water spray equipment for the control of PM10 and PM2.5 have been deemed achieved in practice for dust control from conveyors, screens, transfer points and stockpiles for operations such as aggregate processing and concrete recycling operations. The applicant is proposing to use water spray equipment for the control of PM10 and PM2.5 and will therefore be assumed to be cost effective for the project and will not require a cost analysys.

PM10 and PM2.5 – Alternatives 2 and 3:

This operation will process construction and demolition debris (plywood, metals, plastic, wood, etc..) and mixed debris from commercial and residential (household items, furniture, etc..), which vary in size. The materials are transferred to the initial hopper via a front-end loader, which feeds a vibratory screen. The screen will remove dirt and small material from the process line. The larger materials will continue down the line to the sorting line, where workers sort the material into their perspective bins. It is not technologically feasible to enclose the screen or conveyors due to the size of some of the materials being processed. Enclosure of the conveyors would cause the lines to clog and may result in damage to the processing equipment.

Using the PM10 BACT standard for PM2.5:

Since both, PM10 and PM2.5 trigger BACT at >0 lb/day and PM2.5 is a subset of PM10, BACT for PM2.5 will be triggered whenever BACT is triggered for PM10. Therefore, BACT for PM2.5 will be set to be the same as for PM10.

C. SELECTION OF BACT:

Small emitter BACT (< 10 lb/day) & Minor Source BACT for a construction and demolition recycling/sorting line is the following:

BACT FOR A CONSTRUCTION AND DEMOLITION RECYCLING/MIXED DEBRIS SORTING SYSTEM			
Pollutant	Standard	Source	
VOC			
NOx			
SOx			
PM10	Use of water spray equipment on conveyors, screens, transfer points and stockpiles as necessary to control fugitive emissions	Proposed by applicant	
PM2.5	Use of water spray equipment on conveyors, screens, transfer points and stockpiles as necessary to control fugitive emissions	Proposed by applicant	
CO			

REVIEWED BY:

DATE:

APPROVED BY: In F Hul

DATE: 10-19-18