

San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 2.1.1*

Last Update: 3/17/1997

Soil Remediation Operation - Thermal Oxidizer

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	Thermal Oxidizer @ 1400 F and 0.5 sec OR Catalytic Oxidizer @ 600 F and 0.5 sec both at 95% or greater control efficiency		
NOx		1. Natural gas with low NOx burner 2. Water injection (valid only for vapor generation units)	Carbon adsorption - as an alternative for VOC control (not valid for vapor generation units)

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in a State Implementation Plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 2.1.2*

Last Update: 6/18/1992

Soil Remediation Operation - I.C. Engine

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	LPG auxiliary fuel and 3 - way catalytic converter @ 95% control	Natural gas or LPG auxiliary fuel and 3 - way catalytic converter @ 95% control	
SOx	LPG auxiliary fuel	Natural gas or LPG auxiliary fuel	
PM10	LPG auxiliary fuel	Natural gas or LPG auxiliary fuel	
NOx	LPG auxiliary fuel and 3 - way catalytic converter	Natural gas or LPG auxiliary fuel and 3 - way catalytic converter	
CO	LPG auxiliary fuel and 3 - way catalytic converter	Natural gas or LPG auxiliary fuel and 3 - way catalytic converter	

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San Joaquin Valley
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Best Available Control Technology (BACT) Guideline 2.1.3*

Last Update: 9/15/1993

Soil Remediation Operation - Carbon Adsorption

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	95% Control efficiency for uncontrolled emissions over 2 lb/day		

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San Joaquin Valley
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Best Available Control Technology (BACT) Guideline 2.1.4*

Last Update: 5/6/2020

**Extracted Soil Remediation using Steam Stripping/Flushing
and 4-Stage Carbon Adsorption, > or = 40 tons/hr *RESCINDED***

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San Joaquin Valley
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Best Available Control Technology (BACT) Guideline 2.1.5*

Last Update: 6/23/1992

Soil Remediation Operation - Above-ground Bioremediation

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC		Soil Covered with impervious material and sparge tank vented to carbon adsorption system @ 95% control	

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San Joaquin Valley
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Best Available Control Technology (BACT) Guideline 2.1.6*

Last Update: 5/6/2020

Soil Remediation Operation - Boiler, = or < 4.2 MMBtu/hr *RESCINDED*

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 2.1.7*

Last Update: 8/24/1998

Soil Remediation Operation - Thermal Soil Desorber

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	Thermal or catalytic oxidation (95% control efficiency)		
PM10	Fabric filter serving desorber exhaust (99% control efficiency) and Soil covered or adequate moisture content such that visible emissions are less than 5% (90% control efficiency).		
NOx	Low NOx burner and natural gas/LPG firing		

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San Joaquin Valley
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Best Available Control Technology (BACT) Guideline 2.2.1*

Last Update: 4/20/2020

**Non-hazardous Wastewater Receiving, Treatment, and Impoundment
*RESCINDED***

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 2.2.2*

Last Update: 6/30/1999

Landfill - VOC-Contaminated Soil

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	Daily clean-fill cover (minimum one inch of compacted, District approved soil) onto the exposed VOC contaminated soil.	1. Enclosing landfill and venting vapors to a control device. 2. Use of vapor suppressant foam.	
PM10	Water the unpaved truck unloading and maneuvering area		

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San Joaquin Valley
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Best Available Control Technology (BACT) Guideline 2.2.3*

Last Update: 6/28/2004

Cheese Wastewater Digester

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
SOx		<ol style="list-style-type: none"> 1. 99% H2S removal (dry or wet scrubber) 2. 90% H2S removal (chemical addition or iron sponge scrubber) 3. Water scrubber or 80% H2S removal 	
PM10		<ol style="list-style-type: none"> 1. Smokeless combustion and natural gas or LPG fired pilot 	
NOx		<ol style="list-style-type: none"> 1. Ultra low-NOx flare with NOx emissions <= 0.03 lb/MMBtu 2. Enclosed flare and NOx emission <= 0.06 lb/MMBtu 3. IC engine with NOx emissions <= 50 ppmvd @ 15% O2 (<= 0.18 lb/MMBtu) 	

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San Joaquin Valley
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Best Available Control Technology (BACT) Guideline 2.3.1*

Last Update: 4/20/2020

**Contaminated Water Remediation - Mobile Air Stripper, = or > 750 cfm Air
Stream *RESCINDED***

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