

Appendix B

Estimated Costs of Fugitive Dust Control Measures

Source Category	Control Measure	Estimated Costs	Comments/Assumptions
Paved Roads	4' Paved Shoulders	\$8,200/mile-year	Useful life of 20 years
	Polymer emulsion to stabilize shoulders	\$0.92/square yard	
	Purchase PM10 efficient sweeper	\$190/mile-year	Useful life of 8 years; sweep 15 centerline miles per day
	Clean up spills	\$640/cleanup	
Unpaved Roads and Parking Areas	Pave unpaved roads	\$44,100/mile-year	Useful life of 25 years
	Pave section 100' long before facility exit	\$716/year	30' wide with 3" of asphalt; useful life of 25 years
	Pave unpaved parking lots	\$0.23/ft ² -year	Useful life of 25 years
	Pipe grid trackout control device	\$1,820/year	Useful life of 8 years
	Gravel bed to reduce trackout	\$1,360/year	50' x 30' x 3" thick
	Post speed limit sign	\$53/year for two signs	Useful life of 15 years
	Apply water to unpaved parking lot once a day	\$68-\$81/acre-day	
	Chemical dust suppressant	\$5,340/acre-year	Useful life of 1 year
Construction and Demolition	Chemical dust suppressant	\$5,340/acre-year	Useful life of 1 year
	Apply water once a day	\$68-\$81/acre-day	
	Apply water during high winds	\$272/acre	
	Prohibit activities during high winds	\$1,360 per 8 hour day idled	Demolition of 1,000 ft ² structure on 1.2 acres
	Require air quality monitoring	\$7,500/month	
	Onsite dust control coordinator	\$100/day	
	Sprinkler system to maintain minimum soil moisture of 12%	\$138/acre	
	Limit speed to 15 mph	\$22/inspection	Radar gun = \$700
	Post speed limit signs	\$180/sign	
Bulk Materials	3-sided enclosure with 50% porosity	\$109/year	Useful life of 15 years; pile volume = 5 yd ³
Disturbed Open Areas	Polymer emulsion dust suppressant	\$2,140/acre	Surface stabilized for 3 years if no vehicle disturbance
	Gravel, 1" deep	\$490/acre-year	Useful life of 15 years
	Post no trespassing signs	\$53/sign	Useful life of 15 years
Windblown Dust	Prohibit activities at construction sites during high winds	\$3,100 per high wind day	40 acre construction site
	Water storage pile each hour during high winds	\$22/day	100 cubic yard pile

Reference: Sierra Research, Inc., *Final BACM Technological and Economic Feasibility Analysis*, prepared for the San Joaquin Valley APCD, March 21, 2003.