

# **Appendix C: Air Quality Roadway Construction Model Worksheet**

## Road Construction Emissions Model, Version 6.3.2

Emission Estimates for -> Del Paso Boulevard Streetscape Phase 2 - 2 acres										
Project Phases (English Units)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	CO2 (lbs/day)
Grubbing/Land Clearing	5.2	21.8	36.3	6.7	1.7	5.0	2.6	1.6	1.0	3,483.6
Grading/Excavation	5.8	23.6	38.8	7.1	2.1	5.0	3.0	1.9	1.0	3,899.1
Drainage/Utilities/Sub-Grade	5.3	20.3	33.4	6.9	1.9	5.0	2.8	1.8	1.0	3,254.4
Paving	3.9	13.3	17.2	1.6	1.6	-	1.4	1.4	-	1,639.0
<b>Maximum (pounds/day)</b>	<b>5.8</b>	<b>23.6</b>	<b>38.8</b>	<b>7.1</b>	<b>2.1</b>	<b>5.0</b>	<b>3.0</b>	<b>1.9</b>	<b>1.0</b>	<b>3,899.1</b>
<b>Total (tons/construction project)</b>	<b>0.4</b>	<b>1.6</b>	<b>2.6</b>	<b>0.5</b>	<b>0.1</b>	<b>0.3</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>256.0</b>

Notes: Project Start Year -> 2010  
 Project Length (months) -> 7  
 Total Project Area (acres) -> 2  
 Maximum Area Disturbed/Day (acres) -> 0  
 Total Soil Imported/Exported (yd<sup>3</sup>/day)-> 0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I. Total PM2.5 emissions shown in Column J are the sum of exhaust and fugitive dust emissions shown in columns K and L.

Emission Estimates for -> Del Paso Boulevard Streetscape Phase 2 - 2 acres										
Project Phases (Metric Units)	ROG (kgs/day)	CO (kgs/day)	NOx (kgs/day)	Total PM10 (kgs/day)	Exhaust PM10 (kgs/day)	Fugitive Dust PM10 (kgs/day)	Total PM2.5 (kgs/day)	Exhaust PM2.5 (kgs/day)	Fugitive Dust PM2.5 (kgs/day)	CO2 (kgs/day)
Grubbing/Land Clearing	2.4	9.9	16.5	3.1	0.8	2.3	1.2	0.7	0.5	1,583.5
Grading/Excavation	2.6	10.7	17.6	3.2	1.0	2.3	1.4	0.9	0.5	1,772.3
Drainage/Utilities/Sub-Grade	2.4	9.2	15.2	3.2	0.9	2.3	1.3	0.8	0.5	1,479.3
Paving	1.8	6.0	7.8	0.7	0.7	-	0.6	0.6	-	745.0
<b>Maximum (kilograms/day)</b>	<b>2.6</b>	<b>10.7</b>	<b>17.6</b>	<b>3.2</b>	<b>1.0</b>	<b>2.3</b>	<b>1.4</b>	<b>0.9</b>	<b>0.5</b>	<b>1,772.3</b>
<b>Total (megagrams/construction project)</b>	<b>0.4</b>	<b>1.5</b>	<b>2.4</b>	<b>0.4</b>	<b>0.1</b>	<b>0.3</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>232.2</b>

Notes: Project Start Year -> 2010  
 Project Length (months) -> 7  
 Total Project Area (hectares) -> 1  
 Maximum Area Disturbed/Day (hectares) -> 0  
 Total Soil Imported/Exported (meters<sup>3</sup>/day)-> 0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I. Total PM2.5 emissions shown in Column J are the sum of exhaust and fugitive dust emissions shown in columns K and L.