

***Appendix A***  
***Air Quality Data***



## **Appendix A – Air Quality**

### A-1 Construction Emissions

- Construction Schedule
- Construction Equipment and Emissions Calculations Worksheets
- SCAQMD Rule 403

### A-2 Transportation Conformity Working Group Project Documentation

### A-3 2008 RTIP and RTP Project Listings

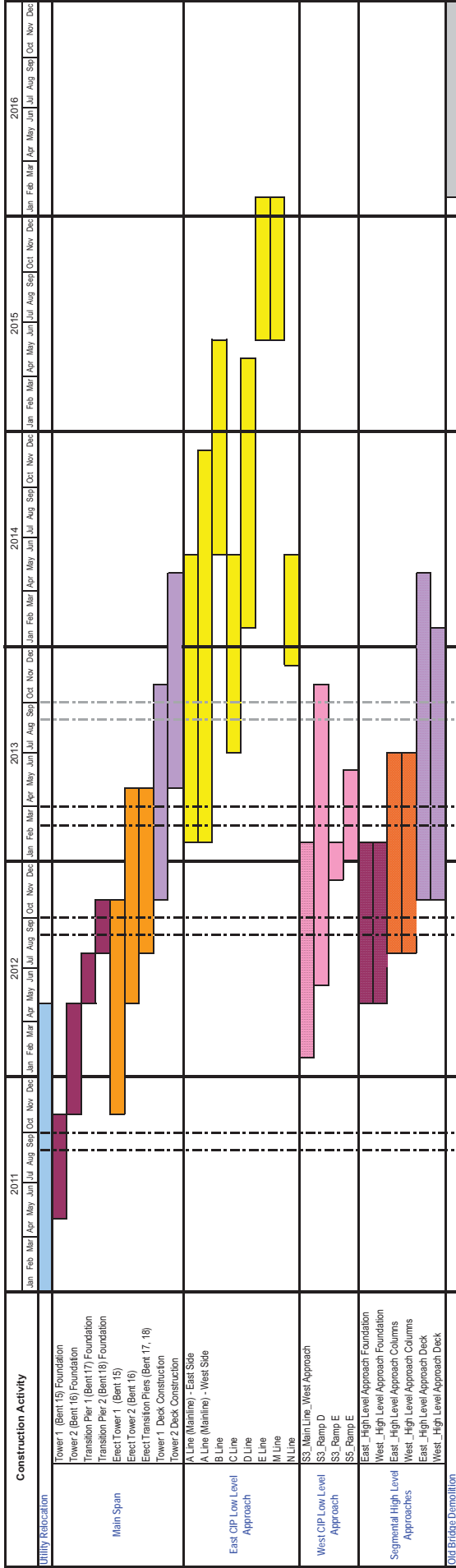


## **A-1 Construction Emissions**

- Construction Schedule
- Construction Equipment and Emissions Calculations Worksheets
- SCAQMD Rule 403



Gerald Desmond Bridge Replacement Project  
Construction Schedule - Summary







**Gerald Desmond Bridge Replacement Project  
Construction Emissions**

**Timeline #1**

**YEAR 1 - Maximum Daily Emissions (Month 9)**

**2011 (September)**

Utility Relocation and Main Spans	Hours per Day	Number of Equipment	Peak Emissions (lbs/day)					
			CO	NO <sub>x</sub>	VOC	PM <sub>10</sub>	PM <sub>2.5</sub>	
Dump Truck	8	2	0.53	1.20	0.0	0.05	0.05	
Flatbed Truck	8	4	18.81	63.45	5.0	0.20	0.18	
Pile Driver	8	1	3.16	9.29	0.8	0.32	0.29	
Concrete Truck	8	8	2.74	3.07	0.6	0.80	0.71	
Crane	8	2	6.47	11.07	1.0	2.54	2.26	
Pickup Truck	8	20	0.93	0.10	0.1	0.01	0.01	
Main Spans Total		Unmitigated	<b>32.6</b>	<b>88.2</b>	<b>7.5</b>	<b>3.9</b>	<b>3.5</b>	
		Mitigated	31.0	83.7	7.2	3.7	3.3	
<b>Offsite Emissions</b>								
Offsite Haul Trucks (Roundtrips)		40	26.0	17.7	0.7	0.4	0.38	
Offsite Delivery Trucks (Roundtrips)								
Offsite Trash Trucks (Roundtrips)								
Truck trip Total			26.0	17.68	0.71	0.38	0.38	
Worker Trips (Phase 1 and 2)		140	3.3	2.7	2.8	0.2	0.23	
Worker Trips (Phase 3)								
Worker Trips Total			3.3	2.7	2.8	0.2	0.23	
Fugitive Dust (yd3 per day)		4.9					93.6	19.65
Fugitive Dust (acres per day) - Max								
Fugitive Dust (square footage per month) - Demol.								
<b>Fugitive Dust Total</b>		Unmitigated					93.6	19.7
		Mitigated					59.9	12.6
<b>Off-site Total</b>		Unmitigated	<b>29.2</b>	<b>20.3</b>	<b>3.6</b>	<b>0.6</b>	<b>0.6</b>	
		Mitigated	29.2	20.3	3.6	0.6	0.6	
<b>On-site Total</b>		Unmitigated	<b>32.6</b>	<b>88.2</b>	<b>7.5</b>	<b>97.5</b>	<b>23.1</b>	
		Mitigated	31.0	83.7	7.2	63.6	15.9	
<b>Regional Total</b>		Unmitigated	<b>61.8</b>	<b>108.5</b>	<b>11.1</b>	<b>98.1</b>	<b>23.8</b>	
		Mitigated	60.2	104.1	10.7	64.2	16.5	

**Summary Table**

Maximum Daily Emissions - Year 1	CO	NO <sub>x</sub>	VOC	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Unmitigated (lbs/day)</b>					
On-site	33	88	8	98	23
Off-site	29	20	4	1	1
<b>Total</b>	<b>62</b>	<b>108</b>	<b>11</b>	<b>98</b>	<b>24</b>
SCAQMD Regional Significance Threshold	550	100	75	150	55
Over/Under	488	(8)	64	52	31
Exceed Threshold?	No	Yes	No	No	No
<b>Mitigated (lbs/day)</b>					
On-site	31	84	7	64	16
Off-site	29	20	4	1	1
<b>Total</b>	<b>60</b>	<b>104</b>	<b>11</b>	<b>64</b>	<b>17</b>
SCAQMD Regional Significance Threshold	550	100	75	150	55
Over/Under	490	(4)	64	86	38
Exceed Threshold?	No	Yes	No	No	No

**Gerald Desmond Bridge Replacement Project  
Construction Emissions**

**Timeline #2**

**YEAR 2 - Maximum Daily Emissions (Month 9)**

**2012 (September)**

Approach Spans	Hours per Day	Number of Equipment	Peak Emissions (lbs/day)				
			CO	NO <sub>x</sub>	VOC	PM <sub>10</sub>	PM <sub>2.5</sub>
Drilling Rig	8	3	12.2	21.6	0.8	0.88	0.78
Screed Machine	8	1	3.3	4.7	0.7	0.39	0.35
Dump Truck	8	5	1.3	2.5	0.4	0.13	0.11
Generator	8	12	30.0	51.6	6.8	3.37	3.00
Flatbed truck	8	19	84.8	283.6	23.4	10.86	9.67
Concrete Pump	8	8	24.6	55.0	5.8	2.34	2.08
Pile Driver	8	6	18.5	41.3	4.4	1.76	1.56
Concrete Truck	8	8	2.7	3.6	0.6	0.18	0.16
Backhoe/Loader	8	6	19.5	32.0	4.9	3.57	3.18
Scraper	8	3	26.4	46.2	3.6	2.61	2.32
Bulldozer	8	3	15.9	54.9	3.8	2.73	2.43
Crane	8	14	43.3	77.2	6.7	5.16	4.59
Pickup Trucks	8	20	0.9	0.1	0.1	0.01	0.01
Total - Approach Spans	Unmitigated		<b>283.20</b>	<b>674.35</b>	<b>61.98</b>	<b>33.99</b>	<b>30.25</b>
	Mitigated		269.04	640.63	58.88	32.29	28.74
<b>Main Spans</b>							
Flatbed truck	8	3	13.38	44.8	3.7	1.7	1.53
Concrete Truck	8	14	4.76	6.3	1.0	0.3	0.29
Crane	8	1	3.09	5.5	0.5	0.4	0.33
Total - Main Spans	Unmitigated		<b>21.23</b>	<b>56.61</b>	<b>5.22</b>	<b>2.41</b>	<b>2.14</b>
	Mitigated		20.17	53.78	4.96	2.29	2.04
<b>Offsite Emissions</b>							
Offsite Haul Trucks (Roundtrips)	10	40	3.0	15.5	0.7	0.4	0.35
Offsite Delivery Trucks (Roundtrips)							
Offsite Trash Trucks (Roundtrips)							
Truck Trip Total			3.0	15.5	0.7	0.4	0.3
Worker Trips (Phase 1 and 2) - Site Prep		190	32.5	3.3	3.6	0.3	0.31
Worker Trips (Phase 3) -							
Worker Trips (Phase 3)							
Worker Trips Total			32.5	3.3	3.6	0.3	0.3
Asphalt (acres per month)							
Fugitive Dust (yd3 per day)							
Fugitive Dust (acres per day) - Max		4.5				86.08	18.08
Fugitive Dust (square footage per month) - Demol.							
<b>Fugitive Dust Total</b>	Unmitigated					<b>86.1</b>	<b>18.1</b>
	Mitigated					55.1	11.6
<b>Off-site Total</b>	Unmitigated		<b>35.5</b>	<b>18.8</b>	<b>4.2</b>	<b>0.7</b>	<b>0.7</b>
	Mitigated		35.5	18.8	4.2	0.7	0.7
<b>On-site Total</b>	Unmitigated		<b>304.4</b>	<b>731.0</b>	<b>67.2</b>	<b>122.5</b>	<b>50.5</b>
	Mitigated		289.2	694.4	63.8	89.7	42.3
<b>Regional Total</b>	Unmitigated		<b>340.0</b>	<b>749.8</b>	<b>71.4</b>	<b>123.1</b>	<b>51.1</b>
	Mitigated		324.8	713.2	68.1	90.3	43.0

**Summary Table**

Maximum Daily Emissions - Year 2	CO	NO <sub>x</sub>	VOC	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Unmitigated (lbs/day)</b>					
On-site	304	731	67	122	50
Off-site	36	19	4	1	1
<b>Total</b>	<b>340</b>	<b>750</b>	<b>71</b>	<b>123</b>	<b>51</b>
SCAQMD Regional Significance Threshold	550	100	75	150	55
Over/Under	210	(650)	4	27	4
Exceed Threshold?	No	Yes	No	No	No
<b>Mitigated (lbs/day)</b>					
On-site	289	694	64	90	42
Off-site	36	19	4	1	1
<b>Total</b>	<b>325</b>	<b>713</b>	<b>68</b>	<b>90</b>	<b>43</b>
SCAQMD Regional Significance Threshold	550	100	75	150	55
Over/Under	225	(613)	7	60	12
Exceed Threshold?	No	Yes	No	No	No

**Gerald Desmond Bridge Replacement Project  
Construction Emissions**

**Timeline #3**

**YEAR 3 - Maximum Daily Emissions (Month 3)**

**2013 (March)**

Approach Spans	Trip Length	No. of Eq.	CO	NOx	VOC	PM <sub>10</sub>	PM <sub>2.5</sub>	
Drilling Rig		1	4.03	6.50	0.29	0.24	0.21	
Dump Truck		5	1.28	2.40	0.04	0.12	0.10	
Generator		8	19.49	32.83	4.16	2.07	1.84	
Flatbed truck	5	11	48.05	158.78	13.27	5.50	4.90	
Concrete Pump		5	15.06	31.75	3.44	1.32	1.17	
Pile Driver		3	9.04	19.05	2.09	0.77	0.69	
Screed Machine		2	6.54	8.91	1.60	0.62	0.56	
Backhoe/Loader		3	9.63	14.98	2.24	1.65	1.47	
Concrete Truck		12	4.04	5.33	0.87	0.25	0.23	
Scraper		2	16.63	29.47	2.37	1.61	1.43	
Bulldozer		2	10.11	35.44	2.78	1.70	1.52	
Crane		10	29.60	51.61	4.04	3.32	2.95	
Pickup Truck	5	20	0.78	0.08	0.01	0.01	0.01	
Total East Approaches			Unmitigated	<b>174.29</b>	<b>397.15</b>	<b>37.20</b>	<b>19.19</b>	<b>17.08</b>
			Mitigated	165.58	377.29	35.34	18.23	16.23
<b>Main Span</b>								
Generator		1	1.83	3.08	0.43	0.19	0.17	
Flatbed truck	4	1	4.37	14.43	1.08	0.52	0.46	
Concrete Truck		2	0.67	0.89	1.21	0.04	0.04	
Crane		2	5.92	10.32	0.14	0.68	0.60	
Total West Approaches			Unmitigated	<b>12.79</b>	<b>28.72</b>	<b>2.86</b>	<b>1.43</b>	<b>1.27</b>
			Mitigated	12.15	27.29	2.71	1.36	1.21
<b>Offsite Emissions</b>								
Offsite Haul Trucks (Roundtrips)	20	40	2.84	13.64	0.60	0.33	0.32	
Offsite Delivery Trucks (Roundtrips)								
Offsite Trash Trucks (Roundtrips)								
Truck Trip Total				2.84	13.64	0.60	0.33	0.32
Worker Trips (Phase 1 and 2)	20	150	28.84	2.37	3.32	0.25	0.25	
Worker Trips (Phase 3)								
Worker Trips - Calculated Total				28.84	2.37	3.32	0.25	0.25
Asphalt (acres per month)								
Fugitive Dust (acres per day) - Normal								
Fugitive Dust (yd3 per day)								
Fugitive Dust (acres per day) - Max		4.6				87.86	18.45	
Fugitive Dust (square footage per month) - Demol.								
<b>Fugitive Dust Total</b>			Unmitigated			87.9	18.5	
			Mitigated			56.2	11.8	
<b>Off-site Total</b>			Unmitigated	<b>31.68</b>	<b>16.02</b>	<b>3.92</b>	<b>0.58</b>	<b>0.57</b>
			Mitigated	31.68	16.02	3.92	0.58	0.57
<b>On-site Total</b>			Unmitigated	<b>187.08</b>	<b>425.87</b>	<b>40.06</b>	<b>108.48</b>	<b>36.80</b>
			Mitigated	177.73	404.58	38.06	75.82	29.24
<b>Regional Total</b>			Unmitigated	<b>218.76</b>	<b>441.89</b>	<b>43.98</b>	<b>109.06</b>	<b>37.37</b>
			Mitigated	209.41	420.59	41.98	76.40	29.81

**Summary Table**

Maximum Daily Emissions - Year	CO	NOx	VOC	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Unmitigated (lbs/day)</b>					
On-site	187	426	40	108	37
Off-site	32	16	4	1	1
<b>Total</b>	<b>219</b>	<b>442</b>	<b>44</b>	<b>109</b>	<b>37</b>
SCAQMD Regional Significance Threshold	550	100	75	150	55
Over/Under	331	(342)	31	41	18
Exceed Threshold?	No	Yes	No	No	No
<b>Mitigated (lbs/day)</b>					
On-site	178	405	38	76	29
Off-site	32	16	4	1	1
<b>Total</b>	<b>209</b>	<b>421</b>	<b>42</b>	<b>76</b>	<b>30</b>
SCAQMD Regional Significance Threshold	550	100	75	150	55
Over/Under	341	(321)	33	74	25
Exceed Threshold?	No	Yes	No	No	No

**Gerald Desmond Bridge Replacement Project  
Construction Emissions**

**Timeline #3-a**

**YEAR 3 - Maximum Daily Emissions (Month 9)**

**2013 (September)**

Approach Spans	Trip Length	No. of Eq.	CO	NOx	VOC	PM <sub>10</sub>	PM <sub>2.5</sub>		
Generator		4	9.74	16.42	2.27	1.04	0.92		
Flatbed truck	5	4	17.47	57.74	4.82	2.06	1.83		
Concrete Pump		1	3.01	6.35	0.70	0.26	0.23		
Concrete Truck		1	0.34	0.44	0.07	0.02	0.02		
Crane		4	11.84	20.64	2.16	1.36	1.21		
Pickup Truck	5	20	0.78	0.08	0.01	0.01	0.01		
Total Approach Spans			Unmitigated		<b>43.20</b>	<b>101.67</b>	<b>10.03</b>	<b>4.75</b>	<b>4.22</b>
			Mitigated		41.04	96.59	9.53	4.51	4.01
<b>Main Spans</b>									
Flatbed truck	5	4	17.47	57.74	4.82	2.06	1.83		
Concrete Truck		2	0.67	0.89	0.14	0.04	0.04		
Total Main Spans			Unmitigated		<b>18.15</b>	<b>58.63</b>	<b>4.97</b>	<b>2.10</b>	<b>1.87</b>
			Mitigated		17.24	55.70	4.72	2.00	1.78
<b>Offsite Emissions</b>									
Offsite Haul Trucks (Roundtrips)	20	40	22.67	13.64	0.60	0.33	0.32		
Offsite Delivery Trucks (Roundtrips)									
Offsite Trash Trucks (Roundtrips)									
Truck Trip Total			22.67	13.64	0.60	0.33	0.32		
Worker Trips (Phase 1 and 2) - Site Prep	20	148	2.84	2.29	2.62	0.25	0.25		
Worker Trips (Phase 3)									
Worker Trips - Calculated Total			2.84	2.29	2.62	0.25	0.25		
Asphalt (acres per month)									
Fugitive Dust (yd3 per day)									
Fugitive Dust (acres per day) - Max		4.6				87.86	18.45		
Fugitive Dust (square footage per month) - Demo									
Fugitive Dust Total			Unmitigated			87.9	18.5		
			Mitigated			56.2	11.8		
<b>Off-site Total</b>									
			Unmitigated		<b>25.51</b>	<b>15.94</b>	<b>3.22</b>	<b>0.58</b>	<b>0.57</b>
			Mitigated		25.51	15.94	3.22	0.58	0.57
<b>On-site Total</b>									
			Unmitigated		<b>61.35</b>	<b>160.30</b>	<b>15.00</b>	<b>94.71</b>	<b>24.55</b>
			Mitigated		58.28	152.28	14.25	62.74	17.60
<b>Regional Total</b>									
			Unmitigated		<b>86.86</b>	<b>176.24</b>	<b>18.22</b>	<b>95.29</b>	<b>25.12</b>
			Mitigated		83.79	168.22	17.47	63.31	18.17

**Summary Table**

Maximum Daily Emissions - Year 3	CO	NOx	VOC	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Unmitigated (lbs/day)</b>					
On-site	61	160	15	95	25
Off-site	26	16	3	1	1
<b>Total</b>	<b>87</b>	<b>176</b>	<b>18</b>	<b>95</b>	<b>25</b>
SCAQMD Regional Significance Threshold	550	100	75	150	55
Over/Under	463	(76)	57	55	30
Exceed Threshold?	No	Yes	No	No	No
<b>Mitigated (lbs/day)</b>					
On-site	58	152	14	63	18
Off-site	26	16	3	1	1
<b>Total</b>	<b>84</b>	<b>168</b>	<b>17</b>	<b>63</b>	<b>18</b>
SCAQMD Regional Significance Threshold	550	100	75	150	55
Over/Under	466	(68)	58	87	37
Exceed Threshold?	No	Yes	No	No	No

**Gerald Desmond Bridge Replacement Project  
Construction Emissions**

**Timeline #4**

**Old Bridge Demolition - Maximum Daily Emissions**

**2015 (October)**

Bridge Demolition	Trip Length	Number of Eq.	CO	NOX	VOC	PM10	PM2.5	
Sawcutters		2	6.45	8.43	1.4	0.9	0.78	
Dump Truck	2	2	0.51	0.95	0.1	0.1	0.04	
Excavators		2	8.46	13.28	0.8	0.6	0.50	
Barge		1	2.96	5.73	0.6	0.4	0.34	
Cranes/Genie Lifts		2	5.69	9.57	0.8	0.5	0.46	
Pickup Truck	4	4	0.11	0.01	0.0	0.0	0.00	
Total Bridge Demolition			Unmitigated Mitigated	<b>24.18</b> 22.97	<b>37.97</b> 36.08	<b>3.69</b> 3.50	<b>2.39</b> 2.27	<b>2.12</b> 2.02
<b>Offsite Emissions</b>								
Offsite Haul Trucks (Roundtrips)	20	40	1.7	7.6	0.3	0.20	0.20	
Offsite Delivery Trucks (Roundtrips)								
Offsite Trash Trucks (Roundtrips)								
Truck Trip Total			1.68	7.55	0.35	0.20	0.20	
Worker Trips (Phase 1 and 2)	20	150	2.9	0.3	0.3	0.05	0.05	
Worker Trips (Phase 3)								
Worker Trips - Calculated Total			2.87	0.29	0.33	0.05	0.05	
Asphalt (acres per month)								
Fugitive Dust (acres per day) - Normal								
Fugitive Dust (yd3 per day)								
Fugitive Dust (acres per day) - Max								
Fugitive Dust (square footage per month) - Demo		27,000				5.2	1.08	
Fugitive Dust Total			Unmitigated Mitigated			<b>5.2</b> 3.3	<b>1.1</b> 0.7	
<b>Off-site Total</b>			Unmitigated Mitigated	<b>4.56</b> 4.56	<b>7.84</b> 7.84	<b>0.67</b> 0.67	<b>0.25</b> 0.25	
<b>On-site Total</b>			Unmitigated Mitigated	<b>24.18</b> 22.97	<b>37.97</b> 36.08	<b>3.69</b> 3.50	<b>7.54</b> 5.57	
<b>Regional Total</b>			Unmitigated Mitigated	<b>28.74</b> 27.53	<b>45.81</b> 43.91	<b>4.36</b> 4.18	<b>7.79</b> 5.82	
						<b>3.45</b>	2.96	

**Summary Table**

Maximum Daily Emissions	CO	NOx	VOC	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Unmitigated</b>					
On-site	24	38	4	8	3
Off-site	5	8	1	0	0
<b>Total</b>	<b>29</b>	<b>46</b>	<b>4</b>	<b>8</b>	<b>3</b>
SCAQMD Regional Significance Thresho	550	100	75	150	55
Over/Under	521	54	71	142	52
Exceed Threshold?	No	No	No	No	No
<b>Mitigated</b>					
On-site	23	36	4	6	3
Off-site	5	8	1	0	0
<b>Total</b>	<b>28</b>	<b>44</b>	<b>4</b>	<b>6</b>	<b>3</b>
SCAQMD Regional Significance Thresho	550	100	75	150	55
Over/Under	522	56	71	144	52
Exceed Threshold?	No	No	No	No	No

**Gerald Desmond Bridge Replacement Project  
Construction Emissions**

**Rehabilitation Alternative**

**Bridge Rehabilitation**

**2012 (September)**

Phase	Trip Length	Number of Eq.	CO	NOX	VOC	PM10	PM2.5
Concrete Truck		2	0.3	0.5	0.1	0.0	0.02
Concrete Pump	5	1	1.7	4.4	0.4	0.2	0.19
Dump Truck		5	0.8	3.0	0.1	0.1	0.09
Excavator		1	3.7	5.4	0.4	0.3	0.27
Cranes/Lifts		3	8.2	16.0	1.4	0.9	0.77
Bulldozer (Liebherr Crawler)		1	5.3	17.8	1.3	0.7	0.61
Saw Cutter		2	6.8	10.3	1.4	0.9	0.83
Total			Unmitigated 26.80	57.31	5.06	3.11	2.77
			Mitigated 25.46	54.44	4.80	2.95	2.63
<b>Offsite Emissions</b>							
Offsite Haul Trucks (Roundtrips)	50	12	2.3	1.3	0.5	0.1	0.12
Offsite Delivery Trucks (Roundtrips)							
Offsite Trash Trucks (Roundtrips)							
Truck Trip Total			2.27	1.30	0.49	0.12	0.12
Worker Trips (Phase 1 and 2)	30	150	12.8	11.6	1.4	0.3	0.26
Worker Trips (Phase 3)							
Worker Trips - Calculated Total			12.77	11.63	1.41	0.26	0.26
Asphalt (acres per month)							
Fugitive Dust (acres per day) - Normal							
Fugitive Dust (yd3 per day)							
Fugitive Dust (acres per day) - Max		4				87.1	18.29
Fugitive Dust (square footage per month) - Demol							0.00
Fugitive Dust Total			Unmitigated			87.1	18.3
			Mitigated			55.7	11.7
<b>Off-site Total</b>							
			Unmitigated	15.04	12.93	1.90	0.39
			Mitigated	15.04	12.93	1.90	0.38
<b>On-site Total</b>							
			Unmitigated	26.80	57.31	5.06	90.20
			Mitigated	25.46	54.44	4.80	58.69
<b>Regional Total</b>							
			Unmitigated	41.83	70.24	6.96	90.59
			Mitigated	40.49	67.37	6.70	59.08

**Summary Table**

Maximum Daily Emissions	CO	NOx	VOC	PM10	PM2.5
<b>Unmitigated</b>					
On-site	27	57	5	90	21
Off-site	15	13	2	0	0
Total	42	70	7	91	21
SCAQMD Regional Significance Threshold	550	100	75	150	55
Over/Under	508	30	68	59	34
Exceed Threshold?	No	No	No	No	No
<b>Mitigated</b>					
On-site	25	54	5	59	14
Off-site	15	13	2	0	0
Total	40	67	7	59	15
SCAQMD Regional Significance Threshold	550	100	75	150	55
Over/Under	510	33	68	91	40
Exceed Threshold?	No	No	No	No	No

## **SCAQMD Rule 403**





(Adopted May 7, 1976) (Amended November 6, 1992)  
(Amended July 9, 1993) (Amended February 14, 1997)  
(Amended December 11, 1998)(Amended April 2, 2004)

**RULE 403. FUGITIVE DUST**

(a) Purpose

The purpose of this Rule is to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (man-made) fugitive dust sources by requiring actions to prevent, reduce or mitigate fugitive dust emissions.

(b) Applicability

The provisions of this Rule shall apply to any activity or man-made condition capable of generating fugitive dust.

(c) Definitions

- (1) ACTIVE OPERATIONS means any source capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface area, or heavy- and light-duty vehicular movement.
- (2) AGGREGATE-RELATED PLANTS are defined as facilities that produce and / or mix sand and gravel and crushed stone.
- (3) AGRICULTURAL HANDBOOK means the region-specific guidance document that has been approved by the Governing Board or hereafter approved by the Executive Officer and the U.S. EPA. For the South Coast Air Basin, the Board-approved region-specific guidance document is the Rule 403 Agricultural Handbook dated December 1998. For the Coachella Valley, the Board-approved region-specific guidance document is the Rule 403 Coachella Valley Agricultural Handbook dated April 2, 2004.
- (4) ANEMOMETERS are devices used to measure wind speed and direction in accordance with the performance standards, and maintenance and calibration criteria as contained in the most recent Rule 403 Implementation Handbook.
- (5) BEST AVAILABLE CONTROL MEASURES means fugitive dust control actions that are set forth in Table 1 of this Rule.

- (6) BULK MATERIAL is sand, gravel, soil, aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.
- (7) CEMENT MANUFACTURING FACILITY is any facility that has a cement kiln at the facility.
- (8) CHEMICAL STABILIZERS are any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation. The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.
- (9) CONSTRUCTION/DEMOLITION ACTIVITIES means any on-site mechanical activities conducted in preparation of, or related to, the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities: grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.
- (10) CONTRACTOR means any person who has a contractual arrangement to conduct an active operation for another person.
- (11) DISTURBED SURFACE AREA means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:
  - (A) been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;
  - (B) been paved or otherwise covered by a permanent structure; or
  - (C) sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.
- (12) DUST SUPPRESSANTS are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.

- (13) EARTH-MOVING ACTIVITIES means the use of any equipment for any activity where soil is being moved or uncovered, and shall include, but not be limited to the following: grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, weed abatement through disking, and soil mulching.
- (14) DUST CONTROL SUPERVISOR means a person with the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 requirements at an active operation.
- (15) FUGITIVE DUST means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.
- (16) HIGH WIND CONDITIONS means that instantaneous wind speeds exceed 25 miles per hour.
- (17) INACTIVE DISTURBED SURFACE AREA means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of 20 consecutive days.
- (18) LARGE OPERATIONS means any active operations on property which contains 50 or more acres of disturbed surface area; or any earth-moving operation with a daily earth-moving or throughput volume of 3,850 cubic meters (5,000 cubic yards) or more three times during the most recent 365-day period.
- (19) OPEN STORAGE PILE is any accumulation of bulk material, which is not fully enclosed, covered or chemically stabilized, and which attains a height of three feet or more and a total surface area of 150 or more square feet.
- (20) PARTICULATE MATTER means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.
- (21) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excluding access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal or any other governmental or quasi-governmental agencies. Private paved roads are any paved roads not defined as public.

- (22) PM<sub>10</sub> means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable State and Federal reference test methods.
- (23) PROPERTY LINE means the boundaries of an area in which either a person causing the emission or a person allowing the emission has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.
- (24) RULE 403 IMPLEMENTATION HANDBOOK means a guidance document that has been approved by the Governing Board on April 2, 2004 or hereafter approved by the Executive Officer and the U.S. EPA.
- (25) SERVICE ROADS are paved or unpaved roads that are used by one or more public agencies for inspection or maintenance of infrastructure and which are not typically used for construction-related activity.
- (26) SIMULTANEOUS SAMPLING means the operation of two PM<sub>10</sub> samplers in such a manner that one sampler is started within five minutes of the other, and each sampler is operated for a consecutive period which must be not less than 290 minutes and not more than 310 minutes.
- (27) SOUTH COAST AIR BASIN means the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange County as defined in California Code of Regulations, Title 17, Section 60104. The area is bounded on the west by the Pacific Ocean, on the north and east by the San Gabriel, San Bernardino, and San Jacinto Mountains, and on the south by the San Diego county line.
- (28) STABILIZED SURFACE means any previously disturbed surface area or open storage pile which, through the application of dust suppressants, shows visual or other evidence of surface crusting and is resistant to wind-driven fugitive dust and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the Rule 403 Implementation Handbook.
- (29) TRACK-OUT means any bulk material that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that have been released onto a paved road and can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.

- (30) TYPICAL ROADWAY MATERIALS means concrete, asphaltic concrete, recycled asphalt, asphalt, or any other material of equivalent performance as determined by the Executive Officer, and the U.S. EPA.
  - (31) UNPAVED ROADS means any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by typical roadway materials. Public unpaved roads are any unpaved roadway owned by federal, state, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.
  - (32) VISIBLE ROADWAY DUST means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.
  - (33) WIND-DRIVEN FUGITIVE DUST means visible emissions from any disturbed surface area which is generated by wind action alone.
  - (34) WIND GUST is the maximum instantaneous wind speed as measured by an anemometer.
- (d) Requirements
- (1) No person shall cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area such that:
    - (A) the dust remains visible in the atmosphere beyond the property line of the emission source; or
    - (B) the dust emission exceeds 20 percent opacity (as determined by the appropriate test method included in the Rule 403 Implementation Handbook), if the dust emission is the result of movement of a motorized vehicle.
  - (2) No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation.
  - (3) No person shall cause or allow PM<sub>10</sub> levels to exceed 50 micrograms per cubic meter when determined, by simultaneous sampling, as the difference between upwind and downwind samples collected on high-volume particulate matter samplers or other U.S. EPA-approved equivalent

method for PM<sub>10</sub> monitoring. If sampling is conducted, samplers shall be:

- (A) Operated, maintained, and calibrated in accordance with 40 Code of Federal Regulations (CFR), Part 50, Appendix J, or appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent method(s) for PM<sub>10</sub>.
  - (B) Reasonably placed upwind and downwind of key activity areas and as close to the property line as feasible, such that other sources of fugitive dust between the sampler and the property line are minimized.
- (4) No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift.
- (5) After January 1, 2005, no person shall conduct an active operation with a disturbed surface area of five or more acres, or with a daily import or export of 100 cubic yards or more of bulk material without utilizing at least one of the measures listed in subparagraphs (d)(5)(A) through (d)(5)(E) at each vehicle egress from the site to a paved public road.
- (A) Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long.
  - (B) Pave the surface extending at least 100 feet and at least 20 feet wide.
  - (C) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
  - (D) Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
  - (E) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the actions specified in subparagraphs (d)(5)(A) through (d)(5)(D).

(e) Additional Requirements for Large Operations

- (1) Any person who conducts or authorizes the conducting of a large operation subject to this Rule shall implement the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards can not be met through use of Table 2 actions; and shall:
  - (A) submit a fully executed Large Operation Notification (Form 403 N) to the Executive Officer within 7 days of qualifying as a large operation;
  - (B) include, as part of the notification, the name(s), address(es), and phone number(s) of the person(s) responsible for the submittal, and a description of the operation(s), including a map depicting the location of the site;
  - (C) maintain daily records to document the specific dust control actions taken, maintain such records for a period of not less than three years; and make such records available to the Executive Officer upon request;
  - (D) after January 1, 2005, install and maintain project signage with project contact signage that meets the minimum standards of the Rule 403 Implementation Handbook, prior to initiating any earthmoving activities;
  - (E) after January 1, 2005, identify a dust control supervisor that:
    - (i) is employed by or contracted with the property owner or developer;
    - (ii) is on the site or available on-site within 30 minutes during working hours;
    - (iii) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule requirements;
    - (iv) has completed the AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and
  - (F) notify the Executive Officer in writing within 30 days after the site no longer qualifies as a large operation as defined by paragraph (c)(18).

(2) Any Large Operation Notification submitted to the Executive Officer or AQMD-approved dust control plan shall be valid for a period of one year from the date of written acceptance by the Executive Officer. Any Large Operation Notification accepted pursuant to paragraph (e)(1), excluding those submitted by aggregate-related plants and cement manufacturing facilities must be resubmitted annually by the person who conducts or authorizes the conducting of a large operation, at least 30 days prior to the expiration date, or the submittal shall no longer be valid as of the expiration date. If all fugitive dust sources and corresponding control measures or special circumstances remain identical to those identified in the previously accepted submittal or in an AQMD-approved dust control plan, the resubmittal may be a simple statement of no-change (Form 403NC).

(f) Compliance Schedule

The newly amended provisions of this Rule shall become effective upon adoption. Pursuant to subdivision (e), any existing site that qualifies as a large operation will have 60 days from the date of Rule adoption to comply with the notification and recordkeeping requirements for large operations. Any Large Operation Notification or AQMD-approved dust control plan which has been accepted prior to the date of adoption of these amendments shall remain in effect and the Large Operation Notification or AQMD-approved dust control plan annual resubmittal date shall be one year from adoption of this Rule amendment.

(g) Exemptions

(1) The provisions of this Rule shall not apply to:

(A) Agricultural operations directly related to the raising of fowls or animals and agricultural operations, provided that the combined disturbed surface area within one continuous property line and not separated by a paved public road is 10 acres or less.

(B) Agricultural operations within the South Coast Air Basin, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:

(i) voluntarily implements the conservation practices contained in the Rule 403 Agricultural Handbook;



- (ii) completes and maintains the self-monitoring form documenting sufficient conservation practices, as described in the Rule 403 Agricultural Handbook; and
  - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.
- (C) Agricultural operations outside the South Coast Air Basin, until January 1, 2005, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:
  - (i) voluntarily implements the conservation practices contained in the Rule 403 Coachella Valley Agricultural Handbook; and
  - (ii) completes and maintains the self-monitoring form documenting sufficient conservation practices, as described in the Rule 403 Coachella Valley Agricultural Handbook; and
  - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.
- (D) Active operations conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency.
- (E) Active operations conducted by essential service utilities to provide electricity, natural gas, telephone, water and sewer during periods of service outages and emergency disruptions.
- (F) Any contractor subsequent to the time the contract ends, provided that such contractor implemented the required control measures during the contractual period.
- (G) Any grading contractor, for a phase of active operations, subsequent to the contractual completion of that phase of earth-moving activities, provided that the required control measures have been implemented during the entire phase of earth-moving activities, through and including five days after the final grading inspection.
- (H) Weed abatement operations ordered by a county agricultural commissioner or any state, county, or municipal fire department, provided that:

- (i) mowing, cutting or other similar process is used which maintains weed stubble at least three inches above the soil; and
  - (ii) any discing or similar operation which cuts into and disturbs the soil, where watering is used prior to initiation of these activities and a determination is made by the agency issuing the weed abatement order that, due to fire hazard conditions, rocks, or other physical obstructions, it is not practical to meet the conditions specified in clause (g)(1)(H)(i). The provisions this clause shall not exempt the owner of any property from stabilizing, in accordance with paragraph (d)(2), disturbed surface areas which have been created as a result of the weed abatement actions.
- (I) sandblasting operations.
- (2) The provisions of paragraphs (d)(1) and (d)(3) shall not apply:
- (A) When wind gusts exceed 25 miles per hour, provided that:
    - (i) The required Table 3 contingency measures in this Rule are implemented for each applicable fugitive dust source type, and;
    - (ii) records are maintained in accordance with subparagraph (e)(1)(C).
  - (B) To unpaved roads, provided such roads:
    - (i) are used solely for the maintenance of wind-generating equipment; or
    - (ii) are unpaved public alleys as defined in Rule 1186; or
    - (iii) are service roads that meet all of the following criteria:
      - (a) are less than 50 feet in width at all points along the road;
      - (b) are within 25 feet of the property line; and
      - (c) have a traffic volume less than 20 vehicle-trips per day.
  - (C) To any active operation, open storage pile, or disturbed surface area for which necessary fugitive dust preventive or mitigative actions are in conflict with the federal Endangered Species Act, as determined in writing by the State or federal agency responsible for making such determinations.

- (3) The provisions of (d)(2) shall not apply to any aggregate-related plant or cement manufacturing facility that implements the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards of paragraphs (d)(1) and (d)(3) can not be met through use of Table 2 actions.
- (4) The provisions of paragraphs (d)(1), (d)(2), and (d)(3) shall not apply to:
  - (A) Blasting operations which have been permitted by the California Division of Industrial Safety; and
  - (B) Motion picture, television, and video production activities when dust emissions are required for visual effects. In order to obtain this exemption, the Executive Officer must receive notification in writing at least 72 hours in advance of any such activity and no nuisance results from such activity.
- (5) The provisions of paragraph (d)(3) shall not apply if the dust control actions, as specified in Table 2, are implemented on a routine basis for each applicable fugitive dust source type. To qualify for this exemption, a person must maintain records in accordance with subparagraph (e)(1)(C).
- (6) The provisions of paragraph (d)(4) shall not apply to earth coverings of public paved roadways where such coverings are approved by a local government agency for the protection of the roadway, and where such coverings are used as roadway crossings for haul vehicles provided that such roadway is closed to through traffic and visible roadway dust is removed within one day following the cessation of activities.
- (7) The provisions of subdivision (e) shall not apply to:
  - (A) officially-designated public parks and recreational areas, including national parks, national monuments, national forests, state parks, state recreational areas, and county regional parks.
  - (B) any large operation which is required to submit a dust control plan to any city or county government which has adopted a District-approved dust control ordinance.
  - (C) any large operation subject to Rule 1158, which has an approved dust control plan pursuant to Rule 1158, provided that all sources of fugitive dust are included in the Rule 1158 plan.
- (8) The provisions of subparagraph (e)(1)(A) through (e)(1)(C) shall not apply to any large operation with an AQMD-approved fugitive dust control plan

provided that there is no change to the sources and controls as identified in the AQMD-approved fugitive dust control plan.

(h) Fees

Any person conducting active operations for which the Executive Officer conducts upwind/downwind monitoring for PM<sub>10</sub> pursuant to paragraph (d)(3) shall be assessed applicable Ambient Air Analysis Fees pursuant to Rule 304.1. Applicable fees shall be waived for any facility which is exempted from paragraph (d)(3) or meets the requirements of paragraph (d)(3).

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Backfilling	01-1 Stabilize backfill material when not actively handling; and 01-2 Stabilize backfill material during handling; and 01-3 Stabilize soil at completion of activity.	<ul style="list-style-type: none"> <li>✓ Mix backfill soil with water prior to moving</li> <li>✓ Dedicate water truck or high capacity hose to backfilling equipment</li> <li>✓ Empty loader bucket slowly so that no dust plumes are generated</li> <li>✓ Minimize drop height from loader bucket</li> </ul>
Clearing and grubbing	02-1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and 02-2 Stabilize soil during clearing and grubbing activities; and 02-3 Stabilize soil immediately after clearing and grubbing activities.	<ul style="list-style-type: none"> <li>✓ Maintain live perennial vegetation where possible</li> <li>✓ Apply water in sufficient quantity to prevent generation of dust plumes</li> </ul>
Clearing forms	03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms.	<ul style="list-style-type: none"> <li>✓ Use of high pressure air to clear forms may cause exceedance of Rule requirements</li> </ul>
Crushing	04-1 Stabilize surface soils prior to operation of support equipment; and 04-2 Stabilize material after crushing.	<ul style="list-style-type: none"> <li>✓ Follow permit conditions for crushing equipment</li> <li>✓ Pre-water material prior to loading into crusher</li> <li>✓ Monitor crusher emissions opacity</li> <li>✓ Apply water to crushed material to prevent dust plumes</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Cut and fill	05-1 Pre-water soils prior to cut and fill activities; and 05-2 Stabilize soil during and after cut and fill activities.	<ul style="list-style-type: none"> <li>✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration</li> <li>✓ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts</li> </ul>
Demolition – mechanical/manual	06-1 Stabilize wind erodible surfaces to reduce dust; and 06-2 Stabilize surface soil where support equipment and vehicles will operate; and 06-3 Stabilize loose soil and demolition debris; and 06-4 Comply with AQMD Rule 1403.	<ul style="list-style-type: none"> <li>✓ Apply water in sufficient quantities to prevent the generation of visible dust plumes</li> </ul>
Disturbed soil	07-1 Stabilize disturbed soil throughout the construction site; and 07-2 Stabilize disturbed soil between structures	<ul style="list-style-type: none"> <li>✓ Limit vehicular traffic and disturbances on soils where possible</li> <li>✓ If interior block walls are planned, install as early as possible</li> <li>✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes</li> </ul>
Earth-moving activities	08-1 Pre-apply water to depth of proposed cuts; and 08-2 Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and 08-3 Stabilize soils once earth-moving activities are complete.	<ul style="list-style-type: none"> <li>✓ Grade each project phase separately, timed to coincide with construction phase</li> <li>✓ Upwind fencing can prevent material movement on site</li> <li>✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

<b>Source Category</b>	<b>Control Measure</b>	<b>Guidance</b>
Importing/exporting of bulk materials	09-1 Stabilize material while loading to reduce fugitive dust emissions; and 09-2 Maintain at least six inches of freeboard on haul vehicles; and 09-3 Stabilize material while transporting to reduce fugitive dust emissions; and 09-4 Stabilize material while unloading to reduce fugitive dust emissions; and 09-5 Comply with Vehicle Code Section 23114.	<ul style="list-style-type: none"> <li>✓ Use tarps or other suitable enclosures on haul trucks</li> <li>✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage</li> <li>✓ Comply with track-out prevention/mitigation requirements</li> <li>✓ Provide water while loading and unloading to reduce visible dust plumes</li> </ul>
Landscaping	10-1 Stabilize soils, materials, slopes	<ul style="list-style-type: none"> <li>✓ Apply water to materials to stabilize</li> <li>✓ Maintain materials in a crusted condition</li> <li>✓ Maintain effective cover over materials</li> <li>✓ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes</li> <li>✓ Hydroseed prior to rain season</li> </ul>
Road shoulder maintenance	11-1 Apply water to unpaved shoulders prior to clearing; and 11-2 Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.	<ul style="list-style-type: none"> <li>✓ Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs</li> <li>✓ Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Screening	12-1 Pre-water material prior to screening; and 12-2 Limit fugitive dust emissions to opacity and plume length standards; and 12-3 Stabilize material immediately after screening.	<ul style="list-style-type: none"> <li>✓ Dedicate water truck or high capacity hose to screening operation</li> <li>✓ Drop material through the screen slowly and minimize drop height</li> <li>✓ Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point</li> </ul>
Staging areas	13-1 Stabilize staging areas during use; and 13-2 Stabilize staging area soils at project completion.	<ul style="list-style-type: none"> <li>✓ Limit size of staging area</li> <li>✓ Limit vehicle speeds to 15 miles per hour</li> <li>✓ Limit number and size of staging area entrances/exists</li> </ul>
Stockpiles/ Bulk Material Handling	14-1 Stabilize stockpiled materials. 14-2 Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	<ul style="list-style-type: none"> <li>✓ Add or remove material from the downwind portion of the storage pile</li> <li>✓ Maintain storage piles to avoid steep sides or faces</li> </ul>



**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Traffic areas for construction activities	15-1 Stabilize all off-road traffic and parking areas; and 15-2 Stabilize all haul routes; and 15-3 Direct construction traffic over established haul routes.	<ul style="list-style-type: none"> <li>✓ Apply gravel/paving to all haul routes as soon as possible to all future roadway areas</li> <li>✓ Barriers can be used to ensure vehicles are only used on established parking areas/haul routes</li> </ul>
Trenching	16-1 Stabilize surface soils where trencher or excavator and support equipment will operate; and 16-2 Stabilize soils at the completion of trenching activities.	<ul style="list-style-type: none"> <li>✓ Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching</li> <li>✓ Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment</li> </ul>
Truck loading	17-1 Pre-water material prior to loading; and 17-2 Ensure that freeboard exceeds six inches (CVC 23114)	<ul style="list-style-type: none"> <li>✓ Empty loader bucket such that no visible dust plumes are created</li> <li>✓ Ensure that the loader bucket is close to the truck to minimize drop height while loading</li> </ul>
Turf Overseeding	18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site.	<ul style="list-style-type: none"> <li>✓ Haul waste material immediately off-site</li> </ul>

**TABLE 1**  
**BEST AVAILABLE CONTROL MEASURES**  
**(Applicable to All Construction Activity Sources)**

Source Category	Control Measure	Guidance
Unpaved roads/parking lots	19-1 Stabilize soils to meet the applicable performance standards; and 19-2 Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	✓ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements
Vacant land	20-1 In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures.	

**TABLE 2**  
**DUST CONTROL MEASURES FOR LARGE OPERATIONS**

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Earth-moving (except construction cutting and filling areas, and mining operations)</b>	<p>(1a) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR</p> <p>(1a-1) For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.</p>
<b>Earth-moving: Construction fill areas:</b>	<p>(1b) Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Executive Officer and the California Air Resources Board and the U.S. EPA, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.</p>

TABLE 2 (Continued)

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Earth-moving: Construction cut areas and mining operations:</b>	(1c) Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
<b>Disturbed surface areas (except completed grading areas)</b>	(2a/b) Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area.
<b>Disturbed surface areas: Completed grading areas</b>	(2c) Apply chemical stabilizers within five working days of grading completion; OR  (2d) Take actions (3a) or (3c) specified for inactive disturbed surface areas.
<b>Inactive disturbed surface areas</b>	(3a) Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR  (3b) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR  (3c) Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR  (3d) Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.

TABLE 2 (Continued)

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL ACTIONS</b>
<b>Unpaved Roads</b>	<p>(4a) Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR</p> <p>(4b) Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR</p> <p>(4c) Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.</p>
<b>Open storage piles</b>	<p>(5a) Apply chemical stabilizers; OR</p> <p>(5b) Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR</p> <p>(5c) Install temporary coverings; OR</p> <p>(5d) Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile. This option may only be used at aggregate-related plants or at cement manufacturing facilities.</p>
<b>All Categories</b>	<p>(6a) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.</p>

TABLE 3

## CONTINGENCY CONTROL MEASURES FOR LARGE OPERATIONS

<b>FUGITIVE DUST SOURCE CATEGORY</b>	<b>CONTROL MEASURES</b>
<b>Earth-moving</b>	(1A) Cease all active operations; OR (2A) Apply water to soil not more than 15 minutes prior to moving such soil.
<b>Disturbed surface areas</b>	(0B) On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR (1B) Apply chemical stabilizers prior to wind event; OR (2B) Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR (3B) Take the actions specified in Table 2, Item (3c); OR (4B) Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all disturbed surface areas.
<b>Unpaved roads</b>	(1C) Apply chemical stabilizers prior to wind event; OR (2C) Apply water twice per hour during active operation; OR (3C) Stop all vehicular traffic.
<b>Open storage piles</b>	(1D) Apply water twice per hour; OR (2D) Install temporary coverings.
<b>Paved road track-out</b>	(1E) Cover all haul vehicles; OR (2E) Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
<b>All Categories</b>	(1F) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.

## **A-2 Transportation Conformity Working Group Project Documentation**





**PROGRAMS**

Compass Blueprint

**Environment**

Air Quality

Energy

Environmental Impact Reports

Environmental Justice

Intergovernmental Review

Regional Comprehensive Plan

Solid & Hazardous Waste Management

Water

Housing

Legislative

Transportation

**RESOURCES**

Data Center

Integrated Growth Forecast

Mapping & GIS

Modeling

Publications & Reports

**SERVICES**

Find Your Representative

Photo Gallery

Press Room

Tools For Local Planners

## TCWG Review of Qualitative Analyses

### Qualitative PM Hot Spot Analysis Review

February 2007	Determination
<a href="#">LA000512 &amp; LA0F011</a> Gerald Desmond Bridge Replacement and Ocean Boulevard from SR-47 to the Los Angeles River	Analysis deemed acceptable for NEPA circulation
<a href="#">Final Draft (March 9, 2007)</a>	

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**TRANSPORTATION CONFORMITY WORKING GROUP  
of the  
SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS'**

**February 27, 2007  
Minutes**

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**THE FOLLOWING MINUTES ARE A SUMMARY OF ACTIONS TAKEN BY THE TRANSPORTATION CONFORMITY WORKING GROUP. AN AUDIOCASSETTE TAPE OF THE ACTUAL MEETING IS AVAILABLE FOR LISTENING IN SCAG'S OFFICE.**

The Transportation Conformity Working Group held its meeting at the SCAG office in Los Angeles.

**In Attendance:**

Naresh Amatya	SCAG
John Asuncion	SCAG
Rosemary Ayala	SCAG
Nasrin Behmanesh	Parsons
Scott Cohen	West Coast Environmental
Sheryll Del Rosario	SCAG
Kevin Haboian	Parsons
Gary Hansen	City of Westlake Village
Lori Huddleston	MTA/Metro
Shawn Kuk	SCAG
Michael Litschi	OCTA
Betty Mann	SCAG
Brad McAllester	MTA/Metro
Shirley Medina	RCTC
Jonathan Nadler	SCAG
Arnie Sherwood	ITS UC Berkley/SCAG
Carla Walecka	TCA

**Via Teleconference:**

Arman Behtash	Caltrans District 12
Ron Bloomberg	CH2MHill, Riverside County
Mike Brady	Caltrans Headquarters
Ben Cacatian	Ventura County APCD
Andrew Yoon	Caltrans District 7
Paul Fagan	Caltrans District 8
Eileen Gallo	Caltrans Headquarters
Carol Gomez	South Coast AQMD
Sandy Johnson	Caltrans District 11

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**TRANSPORTATION CONFORMITY WORKING GROUP  
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**February 27, 2007  
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July and the other was likely to occur prior to that. Page 5 of the Staff Report reflects that the Projects are expected to be operational by mid-2007.

4.4 AQMP Update

Carol Gomez, South Coast AQMD, informed the Working Group that there was a meeting between upper management and staff from AQMD and the California Air Resources Board (CARB) in Sacramento, which was intended to resolve certain issues. Ms. Gomez did not have the details of the meeting. AQMD plans to release the modifications to the Draft 2007 AQMP on its website by the end of the week. The public workshops will be held March 13 and 15 in the four counties.

4.5 Review of Qualitative PM Hot Spot Analysis

Jean Mazur, inquired if the project sponsor had been able to find an existing monitor that would be representative of the proposed project.

Andrew Yoon, Caltrans District 7, responded on behalf of the project sponsor, the Port of Long Beach. Mr. Yoon verified that the corridor is near the port, which has high heavy-duty diesel truck traffic, such that there are not many monitoring stations that are representative. The monitor used in the analysis is in north Long Beach, which is the most representative. There are a couple of MATES monitoring stations in Wilmington and on Pacific Coast Highway, which were installed for the short-term MATES study, limiting the amount of historical data available.

Mr. Nadler stated that the ports have started, or will start, to do their own air quality monitoring. Mr. Nadler also pointed out that since there would generally not be a perfect monitoring station, we still need to move forward with the analysis and conclusions using the best available data. Mr. Nadler stated that the project sponsor should include additional data if available and relevant. It is assumed that such data will not change the conclusions. Otherwise, the TCWG would need to review once again.

The TCWG concluded that they would conditionally approve the current draft analysis subject to EPA and FHWA concurrence which would presumably take place at a sub-group meeting next week. Staff will set the date and setup a conference call for those who wish to participate.



## **A-3 2008 RTIP and RTP Project Listings**



SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS



2008

**REGIONAL TRANSPORTATION PLAN**

*Making the Connections*

**Project List**



LOS ANGELES COUNTY RTP PROJECTS

SYS-TEM*	RTP ID	ROUTE	DESCRIPTION	PROJECT COST (\$1,000'S)
S	LA0D194	405	GARVEE DEBT SERVICE PAYMENTS: IN LOS ANGELES ON ROUTE 405/101 CONNECTOR GAP CLOSURE (2001 CFP 7248, 2001 CFP 8347) (EA# 20120K, PPNO 2336), (BOTH RIP & IIP)	\$30,787
S	LA0D332	405	IN LOS ANGELES: FROM LA TIJERA BLVD TO JEFFERSON BLVD; ADD AUXILIARY LANE PPNO: 3348 EA: 24130	\$38,711
S	LA0D77	405	CITY OF L.A.-AT ROUTE 405 & US 101 INTERCHANGE. CONSTRUCT FREEWAY CONNECTOR FROM SB RTE 405 TO NB&SB US 101 & ADD AUX LANE FROM BURBANK TO NB 101 CONNECTOR (EA# 199610, PPNO 2787)	\$246,180
S	LAE0574	605	STUDY - CONSTRUCT I-605 INTERCHANGE CAPACITY IMPROVEMENTS IN IRWINDALE	\$1,920
S	2009	710	NEAR SOUTH PASADENA FROM ROUTE 10 TO ROUTE 210 - PARTIAL RIGHT OF WAY FOR NEW 6 LANE FREEWAY WITH 2 HOV LANES (EA# 020090, PPNO 0219M) (PROPERTY MANAGEMENT)	\$4,185
S	18790	710	RTE 10 TO DEL MAR BLVD OVERCROSSING FOR THE 710 FWY - WORK ON ENVIRONMENTAL CLEARANCE ISSUES & FUND INITIAL DESIGN. (EA# 187901, PPNO# 2215) (IIP) SAFETEA #2193	\$15,352
S	LA0B952	710	ROUTE 710 EXPANSION BETWEEN THE PORTS IN THE CITY OF LONG BEACH TO CESAR CHAVEZ O/C IN EAST LOS ANGELES (EA 24990 PPNO 3612)	\$40,500
S	LA996143	710	RTE 710 PCH TO DOWNTOWN L.B., PAVEMENT RECON, MEDIAN, LANDSCAPING IMPROVE (EA 2203U, 23640, PPNO: 2945,3248)	\$6,600
S	LA996347	710	I-710/FIRESTONE BLVD.OVER LA RIVER BRIDGE WIDEN ON-RAMP MOD. & SNDWALL ALONG I-710 FROM FIRESTONE BLVD. TO SOUTH-ERN AVE. PHASE IV (HBRR: 53C1972) WIDEN FROM 4.7M TO 6.4M.	\$19,000
S	LAE3773	710	RECONSTRUCT I-710 INTERCHANGES AS PART I-710 CORRIDOR IMPRVMTNT PRGRM PROPOSING 4-TRUCK LNS (PORTS- RAIL YARDS), 10 GENERAL LNS (PORTS- SR60), & ARTERIAL IMPRVMTNS	\$6,875
L	LA000373	0	AVIATION BLVD FROM MANHATTAN BEACH BLVD TO ARBOR VITAE WIDEN FROM 4 TO 6 LANES (ISTEA, 102-240, 1991)	\$13,984
L	LA000389	0	DEL AMO BLVD FROM MADRONA AVE TO CRENSHAW BLVD CONSTRUCT 0 TO 4 LANES NEW GRADE SEPARATION (CFP 6361, 4314; PPNO 2371).	\$30,084
L	LA000512	0	GERALD DESMOND BRIDGE REPLACEMENT (SAFETEA-LU PNRS #14 - SEC 1301B) (ALSO LA0F011)	\$824,000
L	LA000720	0	ROSEGRANS/AVIATION INTERSECTION (AVIATION WIDEN TO 3 LANES IN EACH DIRECTION) RAILROAD BRIDGE WIDENING (C-I:44419) SAFETEA-LU # 3799 AND # 563	\$12,553
L	LA000800	0	HBRR LOCAL BRIDGE LUMP SUM FOR 2004/2005 - (PROJECTS ARE CONSISTENT WITH 40 CFR PART 93.126;127,128, EXEMPT TABLES 2 & 3)	\$394,000
L	LA002738	0	BIKEWAY/PEDESTRIAN BRIDGE OVER LA R RIVER AT TAYLOR YARD CLASS I (CFP 738, 2077) (PPNO# 3156)	\$5,000
L	LA0B100	0	LUMP SUM TRANSPORTATION ENHANCEMENT ACTIVITIES (EXCLUDING CATEGORY 7) (PROJECTS ARE CONSISTENT WITH 40 CFR PART 93.126;127,128, EXEMPT TABLES 2 & 3)	\$84,273



LOS ANGELES COUNTY RTP PROJECTS

SYS-TEM*	RTP ID	ROUTE	DESCRIPTION	PROJECT COST (\$1,000'S)
L	LA0F003	0	LOS ANGELES STREET, OVER BIG DALTON WASH, 0.5 MI S IRWINDALE AVE. WIDEN 2-LANE BRIDGE TO 4-LANE BRIDGE, ADD SHOULDERS, UPGRADE BRIDGE RAILING (# 53C0676)	\$11,649
L	LA0F004	0	DELL AVE, OVER CARROLL CANAL, 0.2 KM S OF VENICE BLVD. REHABILITATE 1 LANE BRIDGE AND WIDEN TO 2 LANE BRIDGE, ADD SIDEWALKS, UPGRADE BRIDGE RAILINGS. (# 53C1688)	\$3,500
L	LA0F005	0	DELL AVENUE, OVER LINNIE CANAL, 0.25 KM S OF VENICE BLVD. REHABILITATE 1 LANE BRIDGE & WIDEN TO 2 LANE BRIDGE, ADD SIDEWALKS, UPGRADE BRIDGE RAILINGS (# 53C1689)	\$4,000
L	LA0F006	0	DELL AVENUE, OVER SHERMAN CANAL, 0.25 MI S VENICE BLVD. REHABILITATE 1 LANE BRIDGE & WIDEN TO 2 LANE BRIDGE ADD SIDEWALKS, UPGRADE BRIDGE RAILINGS. (# 53C1691)	\$4,000
L	LA0F007	0	HYPERION AVE. OVER GLENDALE BL SB, LA RIVER, SOUTHBOUND GLENDALE. SEISMIC RETROFIT & RECONFIGURE SIDEWALKS, RESTORE HISTORIC BRIDGE RAILINGS (NO BRIDGE WIDENING) (# 53C1881)	\$12,719
L	LA0F008	0	GLENDALE BLVD. OVER L-A RIVER, REHABILITATE 2 LANE BRIDGE & WIDEN TO INCLUDE SHOULDERS, SIDEWALKS, AND RESTORE HISTORIC BRIDGE RAILINGS (NON CAPACITY) # 53C1883)	\$12,000
L	LA0F009	0	GLENDALE BLVD. - OVER LA RIVER. REHABILITATE 2 LANE BRIDGE & WIDEN TO INCLUDE SHOULDERS, SIDEWALKS, RESTORE HISTORIC RAILINGS (NON-CAPACITY PROJECT) (# 53C1884)	\$10,000
L	LA0F010	0	OLD ROAD, OVER SANTA CLARA RIVER, 1/4 MI N MAGIC MTN PKWY. REPLACE 4 LANE BRIDGE W/ 6 LANE BRIDGE (HBRPP PAY FOR 4 LANE, & NEWHALL LAND & FARMING PAYS FOR 2 ADDIT. LANES) (# 53C0327)	\$21,500
L	LA0F011	0	OCEAN BLVD. OVER ENTRANCE CHANNEL, UP RR, 1.0 MI E STATE ROUTE 47. REPLACE EXISTING 5 LANE GERALD DESMOND BRIDGE WITH NEW 6 LANE BRIDGE (BRIDGE #53C0013) (ALSO LA000512)	\$26,500
L	LA0F016	0	PURCHASE, INSTALL, AND INTEGRATE OPTICOM PRIORITY CONTROL SYSTEM TO EXISTING TRAFFIC CONTROLLERS AT VARIOUS LOCATIONS WITHIN CITY LIMITS. (SAFETEA-LU#2345)	\$217
L	LA0F019	0	PURCHASE OF BUS BENCHES, TRASH CANS, AND SMALL SHELTERS FOR VARIOUS TRANSIT STOPS THROUGHOUT CITY OF LAKEWOOD.	\$493
L	LA0F020	0	LOWER ARROYO SECO TRAIL AND TRAIL HEAD IMPROVEMENT PROJECT (GRANT FROM RECREATIONAL TRAILS PROGRAM)	\$258
L	LA0F030	0	I-110 FREEWAY/ C' STREET INTERCHANGE IMPROVEMENTS- MODIFICATION OF EXISTING INTERCHANGE	\$24,798
L	LA0F033	0	PLANNING SERVICES ARROYO SECO PARKWAY SCENIC CORRIDOR & IMPLEMENTATION OF CORRIDOR MGMT PLAN. SCENIC BYWAY ORGN & VISTOR INTERPRETATION & MARKETING PLAN.FHWA PRJ SB-2004-CA-51312	\$372
L	LA0F038	0	IMPROVEMENTS TO THIS INTERSECTION INCLUDE DURATHERM DECORATIVE CROSSWALKS AND RESURFACING ON WESTERN AVE.	\$151

Local Highway

ProjectID	County	Air Basin	Model	RTP ID	Program	Route	Begin	End	System	Conformity Category	Amend	Source
LA0D448	Los Angeles	SCAB	L421	LA0D448	CAN76				L	NON-EXEMPT	0	2008
<b>MAJOR ARTERIAL GAP CLOSURES. AVENUE J, 36TH TO 32ND WEST, LANCASTER BLVD TO NEWGROVE ST, 20TH STREET EAST, AVENUE J-4 OT J-8</b>												
Fund		ENG			Prior		2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014
LOCAL TRANS FUNDS		457	45	2,400	2,902		120	225	2,557			2,902
LA0D448 Total		457	45	2,400	2,902		120	225	2,557			2,902
ProjectID	County	Air Basin	Model	RTP ID	Program	Route	Begin	End	System	Conformity Category	Amend	Source
LA0D449	Los Angeles	SCAB	L422	LA0D449	CAR75				L	NON-EXEMPT	0	2008
<b>AVENUE M AND SR14 OVERCROSSING IMPROVEMENTS. WIDENING AVENUE M FROM 2 TO 7 LANES FROM 10TH STREET WEST TO 15TH STREET WEST.</b>												
Fund		ENG			Prior		2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014
LOCAL TRANS FUNDS		1,750	400	2,150	2,150				250		1,900	2,150
LA0D449 Total		1,750	400	2,150	2,150				250		1,900	2,150
ProjectID	County	Air Basin	Model	RTP ID	Program	Route	Begin	End	System	Conformity Category	Amend	Source
LA9708289	Los Angeles	MDAB	L363	LA9708289	CAR63				L	NON-EXEMPT	0	2008
<b>AVE G, FROM RT 14 TO 25TH ST WEST WIDEN FROM 2 TO 6 LANES (0.2 MIMM) (TOTAL 6 LANES BOTH DIR). INCLUDES INTER CHANGE IMPROVEMENTS.</b>												
Fund		ENG			Prior		2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014
LOCAL TRANS FUNDS		1,700	9,000	10,700	10,700		500		10,200			10,700
LA9708289 Total		1,700	9,000	10,700	10,700		500		10,200			10,700
ProjectID	County	Air Basin	Model	RTP ID	Program	Route	Begin	End	System	Conformity Category	Amend	Source
LAE2906	Los Angeles	SCAB	L423	LAE2906	CAR63				L	NON-EXEMPT	0	2008
<b>Inglewood Ave/Marine Ave intersection improvement. Purchase ROW for widening; add 1 thru NB lane Inglewood Ave (2 lane existing) &amp; 1 thru WB lane Marine Ave (1 lane existing); Add lighting, signals, sidewalk.</b>												
Fund		ENG			Prior		2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014
DEMO-SAFETEA-LU		476	362	1,762	2,600		476	362	1,762			2,600
CITY FUNDS				487	487			487				487
PROP "C20" FUNDS		119	290	409	409		119	290				409
PROP "C25" FUNDS				1,019	1,019			1,019				1,019
LAE2906 Total		595	652	3,268	4,515		595	2,158	1,762			4,515
ProjectID	County	Air Basin	Model	RTP ID	Program	Route	Begin	End	System	Conformity Category	Amend	Source
LA000512	Los Angeles	SCAB	L248	LA000512	CAR60				L	NON-EXEMPT	0	2008
<b>GERALD DESMOND BRIDGE REPLACEMENT (SAFETEA-LU PNRS #14 - SEC 1301B)REPLACE EXISTING 5 LANE GERALD DESMOND BRIDGE WITH NEW 6 LANE BRIDGE. OCEAN BLVD. OVER ENTRANCE CHANNEL, UP RR, 1.0 MI E STATE ROUTE 47. REPLACE EXISTING 5 LANE GERALD DESMOND BRIDGE WITH</b>												
Fund		ENG			Prior		2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014
BRIDGE - LOCAL		10,000	26,736	156,875	193,611	10,000					183,611	193,611
PROJECTS OF NATIONAL AND REGIONAL SIGNIFICANCE				100,000	100,000			35,000	50,000	15,000		100,000
SURFACE TRANS PROG		1,240			1,240							1,240
PROP "C25" FUNDS				17,306	17,306					8,524	8,782	17,306
PORT FUNDS		5,998	3,464	55,704	65,166	7,925	5,735	20,220	18,235	8,340	4,711	65,166