

Memorandum

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CC

Subject Yerba Buena Island Ramps Improvement Project EIR/EIS
 Air Quality Analysis Addendum

From Debra Lilly

Date July 12, 2010

The following revisions are hereby made by addendum to the Final Air Quality Analysis, dated December 2009, based on recent comments from Caltrans Headquarters.

The following text has been added to the end of the second paragraph on page 34 in the Air Quality Analysis:

Concurrence with this determination must be obtained from all federal state, and local agencies with an air quality regulatory responsibility.

Table 1 on page 19 has been revised as follows:

Table 1: Summary of Annual Ambient Air Quality Data¹

	2006	2007	2008
OZONE			
Maximum concentration (1-hour/8-hour, ppm)	0.053/0.046	0.060/0.053	0.082/0.066
Number of days state standard exceeded (1-hour/8-hour)	0/0	0/0	0/0
Number of days national standard exceeded (8-hour) ²	0	0	0
CARBON MONOXIDE (CO)			
Maximum concentration (1-hour/8-hour, ppm)	2.7/2.09	2.5/1.60	2.1/2.29 1.5 ³
Number of days state standard exceeded (8-hour)	0	0	0
Number of days national standard exceeded (1-hour/8-hour)	0/0	0/0	0/0
NITROGEN DIOXIDE (NO₂)			
Maximum concentration (1-hour, ppm)	0.107	0.069	0.062
Number of days state standard exceeded	0	0	0
Annual average (ppm)	0.016	0.016	0.016
SULFUR DIOXIDE (SO₂)			

	2006	2007	2008
Maximum concentration (24-hour, ppm)	0.007	0.006	0.004
Number of days state standard exceeded	0	0	0
Number of days national standard exceeded	0	0	0
FINE PARTICULATE MATTER (PM_{2.5})			
Maximum concentration (µg/m ³) (National/California ⁴)	54.3/54.3	45.2/45.2	29.4/39.2
Number of days national standard exceeded (measured/calculated ⁵) ⁶	3/3.1	5/5.1	0/—
State annual average (µg/m ³) (National/California)	9.7 9.6/9.7	8.7 8.6/8.9	—/11.7
RESPIRABLE PARTICULATE MATTER (PM₁₀)			
Maximum concentration (µg/m ³) (National/California ⁴)	58.0/61.4	65.7/69.8	41.2/41.3
Number of days state standard exceeded (measured/calculated ⁵)	3/17.3	2/12.0	0/0.0
Number of days national standard exceeded (measured/calculated ⁵)	0/0.0	0/0.0	0/0.0
State annual average (µg/m ³) (National/California)	22.0 22.9	20.9 21.8/21.9	21.1 20.0/21.9

Notes: µg/m³ = micrograms per cubic meter; ppm = parts per million; — = data not available

¹ Measurements were recorded at the Arkansas Street monitoring station.

² The 8-hour national ozone standard was revised to 0.075 ppm in March 2008. Statistics shown are based on the previous 0.08 ppm standard.

³ Both 1-hour and 8-hour CO concentrations for 2008 were obtained from USEPA because of an inconsistency between USEPA-reported 1-hour concentrations and ARB-reported 8-hour concentrations. For all other years, 8-hour CO concentrations were obtained from ARB and 1-hour CO concentrations from USEPA.

⁴ State and national statistics may differ for the following reasons: State statistics are based on California-approved samplers, whereas national statistics are based on samplers using national reference or equivalent methods. State and national statistics may therefore be based on different samplers. State statistics are based on local conditions while national statistics are based on standard conditions. State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria.

⁴ Measured days are those days that an actual measurement was greater than the level of the state daily standard or the national daily standard. Measurements are typically collected every 6 days. Calculated days are the estimated number of days that a measurement would have been greater than the level of the standard had measurements been collected every day. The number of days above the standard is not necessarily the number of violations of the standard for the year.

⁶ The national PM_{2.5} 24-hour standard was revised from 65 µg/m³ to 35 µg/m³ in 2006. Statistics shown are based on the 65 µg/m³ standard.

Sources: ARB 2009a; USEPA 2009a

The third paragraph on page 20 in the Air Quality Analysis has been revised as follows:

The NAAQS (other than ozone, PM₁₀, PM_{2.5}, and those based on annual averages or arithmetic mean) are not to be exceeded more than once per year. The NAAQS for ozone, PM₁₀, and PM_{2.5} are based on statistical calculations over 1- to 3-year periods, depending on the pollutant. The SFBAAB is currently designated as a marginal nonattainment area with respect to the national standard for ozone, a nonattainment area for the 24-hour PM_{2.5} standard, and ~~is designated as~~ attainment or unclassified area for all other pollutants. Additional details regarding the national attainment status are provided in Table 3.14-3. The NAAQS along with health effects, atmospheric effects, and common source types are shown in Table 3.14-1.