

SMAQMD
AREA SOURCE SUMMARY - SACRAMENTO COUNTY

Section 7.1

Waste Disposal - Municipal Waste Disposal (Biodegradation)

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Date: October 11, 2000

EMISSION INVENTORY SOURCE CATEGORY

Landfills

EMISSION INVENTORY CODES (CES CODES) AND DESCRIPTION

120-122-0242-0000 (57281) - Municipal Waste Disposal (Biodegradation)

METHOD SUMMARY

Uncontrolled emissions from all landfills except Kiefer and Sac City landfills, designated as “Other Landfills”, are estimated using EIIP Area Source method in Chapter 15 – Landfills and EPA’s computer model, “Landfill Air Emissions Estimation Model”. Landfill emissions are estimated for Kiefer Landfill and Sac City Landfill, separately. They are based on survey and permit evaluation data and are inventoried as point sources. The emissions from “Other Landfills” (uncontrolled), which are small and closed or currently only accept inorganic waste, are estimated separately from the above two large landfills as one landfill in the model. Recommended default values from AP-42 (EPA, 11/98) representing Sacramento conditions are used in the model. Since the greatest emissions are emitted from waste 25 years old, the refuse acceptance rates for the past 25 years are input into the model. The refuse acceptance rates since 1991 are from the California Integrated Waste Management Board (www.ciwmb.ca.gov/landfills/tonnage). Whereas, the refuse acceptance rates for years from 1975 to 1990 are estimated using the Air Resources Board’s Refuse generation factor of 8.1 pounds per capita (“Municipal Waste Disposal, Section D-19, Preliminary Draft”, May 3, 1984) and Department of Finance yearly Sacramento population (www.dof.ca.gov). The refuse acceptance rate for “Other Landfills” is assumed to be the difference between the total Sacramento annual generation rate and Kiefer and Sac City landfills’ annual acceptance rates. After 1990, all organic refuse from Sacramento County goes to the new Kiefer landfill modules.

ACTIVITY DATA SOURCE: Refuse acceptance rate - California Integrated Waste Management Board, DOF population, CARB 8.1 pounds per capita, permit evaluation.

EMISSION FACTOR SOURCE: Landfill Air Emissions Estimation Model, AP-42, (EPA, 1995).

TEMPORAL DATA:

Daily Activity: 24 hours per day.

Weekly Activity: 7 days per week.

Monthly Activity: Uniform.

DATE OF THE LAST UPDATE: August 10, 2000

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GROWTH PARAMETER: Population

EMISSION SUMMARY (1999 - ANNUAL AVERAGE TONS/DAY) RECONCILED
(Exclude Kiefer and Sac City landfills which are controlled and accounted as point source)

<u>CES#</u>	<u>TOG</u>	<u>ROG</u>	<u>CO</u>	<u>NOX</u>	<u>SOX</u>	<u>PM</u>	<u>PM10</u>
57281	23.61	0.15	0.00	0.00	0.00	0.00	0.00

NEEDED CLARIFICATIONS/CORRECTIONS TO CURRENT METHOD

None.

FUTURE PLANS FOR METHOD UPDATE/REVISION

None.

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