# Appendix E

## California Regional PM10/PM2.5 Air Quality Study Publications

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# Appendix E: California Regional PM10/PM2.5 Air Quality Study Publications

The California Regional PM10/PM2.5 Air Quality Study (CRPAQS) is a comprehensive public/private sector collaborative program with two main goals:

1. to provide an improved understanding of particulate matter and visibility in central California, and
2. to provide decision-makers with the tools needed to identify equitable and efficient control methods.

One of the goals of the CRPAQS is to evaluate both the national and State air quality standards for PM10 and for PM2.5, as well as provide products to support the development of effective PM10 and PM2.5 attainment plans for Central California. As such, the *2012 PM2.5 Plan* is foundationally supported by the science and research established through the CRPAQS.

The following list of completed publications under CRPAQS serves as an illustration of the significant investment and effort by the contributors and researchers involved in this study. Additional CRPAQS studies are currently being conducted giving further support to the region's understanding of particulate matter and providing guidance for effective control strategies.

## CALIFORNIA REGIONAL PM10/PM2.5 AIR QUALITY STUDY PUBLICATIONS

1. Roth, P. M. et al., 1993, "A Proposed PM-10 Program for the San Joaquin Valley", prepared by Envair for the San Joaquin Valleywide Air Pollution Study Agency.

2. Gray, H.A. et al. 1995, "San Joaquin Valley Regional PM10 Study Technical Support Study 5A: Characterizing Micrometeorological Phenomena: Mixing and Diffusion in Low Wind Speed Stable Conditions", prepared by Systems Applications International for the San Joaquin Valleywide Air Pollution Study Agency.

3. Gillies, J. et al., 1995, "Literature Review Plan for the San Joaquin Valley Regional Particulate Study Technical Support Study No. 5: Particle Resuspension", prepared by the Desert Research Institute for the San Joaquin Valleywide Air Pollution Study Agency.

4. Gillies, J. et al., 1995, "Resuspension of Particles by the Wind: A Literature Review for the San Joaquin Valley Regional Particulate Study Technical Support Study No. 5: Particle Resuspension", prepared by the Desert Research Institute for the San Joaquin Valleywide Air Pollution Study Agency.

5. Gillies, J. et al., 1996, "Resuspension of Particles by the Wind: Research Initiatives for California Regional Particulate Study Technical Support Study No. 5: Particle Resuspension", prepared by the Desert Research Institute for the San Joaquin Valleywide Air Pollution Study Agency.

6. Gillies, J. et al., 1996, "Resuspension of Particles by the Wind: Modeling, Data Analysis Initiatives for California Regional Particulate Study Technical Support Study No. 5: Particle Resuspension", prepared by the Desert Research Institute for the San Joaquin Valleywide Air Pollution Study Agency.

7. Hagan, C. et al., 1996, "California Regional PM10 Air Quality Study: Emissions Modeling Plan", prepared by Envair for the San Joaquin Valleywide Air Pollution Study Agency.

8. Roth, P. M. et al., 1996, "Revisions to Cost Estimates for the Central California Fine Particle Study", prepared by Envair for the San Joaquin Valleywide Air Pollution Study Agency.

9. Watson, J. et al., 1996, "Data Analysis Activities for the 1995 Integrated Monitoring Study (IMS95) of the California Regional Particulate Matter Study (CRPAQS)", prepared by Desert Research Institute for the San Joaquin Valleywide Air Pollution Study Agency.

10. Kumar, N. et al., 1996, "User's Guide to the UAM-AERO Model", prepared by Sonoma Technology Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

11. Kumar, N. et al., 1996, "User's Guide to the Speciated Rollback Model for Particulate Matter", prepared by Sonoma Technology Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

12. Lurmann, F. et al., 1996, "PM10 Air Quality Models for Application in the San Joaquin Valley PM10 SIP", prepared by Sonoma Technology, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

13. Lehrman, D. E. et al., 1996, "SARMAP II Design: Analysis of the San Joaquin Valley Meteorological Environment During High PM10 Loading", prepared by Technical & Business Systems, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

14. Rogge, W., 1996, "Feasibility of Using Organic Tracers for Tracking the Fate of Primary and Secondary Aerosols from Combustion Sources", prepared by Florida International University for the San Joaquin Valleywide Air Pollution Study Agency.

15. Chinkin, L. R. et al., 1996, "Final Workplan for Evaluation and Improvement of Methods for Determining Ammonia Emissions in the San Joaquin Valley Technical Support Study 5", prepared by Sonoma Technology, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

16. Chinkin, L. R., 1996, "CRPAQS TSS15: Task 3, Initial Ammonia Inventory for the San Joaquin Valley", prepared by Sonoma Technology, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

17. Chinkin, L. R. et al., 1996, "Review of Current Methodologies for Estimating Ammonia Emissions", prepared by Sonoma Technology, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

18. Watson, J. G. et al., 1996, "Final Study Plan for: Effectiveness Demonstration of Fugitive Dust Control Methods for Public Unpaved Roads and Unpaved Shoulders on Paved Roads", prepared by the Desert Research Institute for the San Joaquin Valleywide Air Pollution Study Agency.

19. Watson, J. G. et al., 1996, "Final Report: Effectiveness Demonstration of Fugitive Dust Control Methods for Public Unpaved Roads and Unpaved Shoulders on Paved Roads", prepared by Desert Research Institute for the San Joaquin Valleywide Air Pollution Study Agency.

20. Solomon, P.A. et al., 1996, "1995 Integrated Monitoring Study: Objectives and Design", presented at the 1996 U.S. EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC.

21. Magliano, K.L. et al., 1996, "1995 Integrated Monitoring Study: Temporal Variability of Particulate Matter - Preliminary Results", presented at the 1996 U.S.

EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC.

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24. Bush, D.H. et al., 1996, "IMS95 Winter Study - Quality Assurance", presented at the 1996 U.S. EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC.

25. Collett, J. et al., 1996, "1995 Integrated Monitoring Study: Fog Measurements in the Southern Valley - Preliminary Results", presented at the 1996 U.S. EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC.

26. Collett, J. et al., 1996, "1995 Integrated Monitoring Study: Fog Measurements in the Northern Valley - Preliminary Results", presented at the 1996 U.S. EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC.

27. Gray, H.A., 1996, "1995 Integrated Monitoring Study: Low Wind Speed Study - Preliminary Results", presented at the 1996 U.S. EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC.

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29. Barnett, A. et al., 1996, "Integrated Measurements Study - 1995 Audit Program Final Report", prepared by Aerovironment Environmental Services Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

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31. Ashbaugh, L. A. et al., 1996, “Road Silt Loadings in the San Joaquin Valley During IMS-95”, prepared by U.C. Davis for the San Joaquin Valleywide Air Pollution Study Agency.

32. Wilson, M., 1996, “Traffic Counts in Support of the 1995 Integrated Monitoring Study”, prepared by WILTEC for the San Joaquin Valleywide Air Pollution Study Agency.

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35. Roberts, P. et al., 1996, “Collection of Continuous Gas-Phase Data at Two Sites During IMS95”, prepared by Sonoma Technology Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

36. Westerinin, A. et al., 1996, “Final Audit Results for the Integrated Monitoring Study”, prepared by the Air Resources Board for the San Joaquin Valleywide Air Pollution Study Agency.

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39. Ondov, J., 1997, “Technical Support Study No. 13: Feasibility of Using Rare Earth Isotope and Activatable Tracers for Tracking the Fate of Primary and Secondary Aerosols from Combustion Sources”, prepared by John Ondov for the San Joaquin Valleywide Air Pollution Study Agency.

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55. Chinkin, L. R. et al., 1997, "IMS 95 Data Analysis Workplans for Tasks 4.1.2, 4.5.1, 4.5.3, 4.6.1, 4.6.2, 4.7.1, and 4.7.2", prepared by Sonoma Technology, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

56. Collins, J., 1997, "IMS95 Data Analysis Workplan for Work Element 3.3 Boundaries and Backgrounds", prepared by the University of California, Riverside, CE-CERT for the San Joaquin Valleywide Air Pollution Study Agency.

57. Collet, J., 1997, "Work Plan for Work Element 4.6.7", prepared by Colorado State University for the San Joaquin Valleywide Air Pollution Study Agency.

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61. McDade, C. E., 1997, "Draft Final Report IM95 Data Analysis Work Elements 7.3 Contributions of Chemical Constituents to Visibility Reduction, 7.4 Contributions of Chemical Constituents to Light Extinction Budget, 7.5 Contributions of Emission Sources to Light Extinction Budget", prepared by ENSR Consulting and Engineering for the San Joaquin Valleywide Air Pollution Study Agency.

62. Chinkin, L. R. et al., 1998, "Use of Ambient Data to Evaluate a Regional Emission Inventory in the San Joaquin Valley", presented at the A&WMA PM2.5: A Fine Particle Standard Conference, Long Beach, CA.

63. Coe, D. L. et al., 1998, "Technical Support Study 15: Evaluation and Improvement of Methods for Determining Ammonia Emissions in the San Joaquin

Valley Final Report", prepared by Sonoma Technology, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

64. Hackney, R. A. et al., 1998, "Meteorological Data Analysis of Surface, Upper Air, and Synoptic Conditions during the Integrated Monitoring System 1995 (IMS95) Study Period, from November 1995 through January 1996", presented at the A&WMA PM2.5: A Fine Particle Standard Conference, Long Beach, CA.

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68. Schauer, J. J. et al., 1998, "Source Apportionment of Wintertime Gas-Phase and Particle-Phase Air Pollutants Using Organic Compounds as Tracers", presented at the A&WMA PM2.5: A Fine Particle Standard Conference, Long Beach, CA.

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73. Richards, L. W. et al., 1998, "1995 Integrated Monitoring Study: Comparison of Light Scattering Measurements During Winter in the San Joaquin Valley", presented at the A&WMA PM2.5: A Fine Particle Standard Conference, Long Beach, CA.

74. Dye, T. S. et al., 1998, "Mixing Depth Structure and Evolution During the Wintertime in the San Joaquin Valley as Diagnosed from Upper-Air Meteorological Data", presented at the A&WMA PM2.5: A Fine Particle Standard Conference, Long Beach, CA.

75. McDade, C. et al., 1998, "Optical Properties of the San Joaquin Valley Aerosol Collected During the 1995 Integrated Monitoring Study", presented at the A&WMA PM2.5 : A Fine Particle Standard Conference, Long Beach, CA.

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77. Collett, J. L. et al., 1998, "1995 Integrated Monitoring Study: Measurements at Several Heights on a TV Tower During Fog Events in the San Joaquin Valley", presented at the A&WMA PM2.5: A Fine Particle Standard Conference, Long Beach, CA.

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81. Lehrman, D. E. et al., 1998, "Final Report California Regional PM10/PM2.5 Air Quality Study (CRPAQS) 1995 Integrated Monitoring Study Data Analysis Work Element 2.2.2 - Meteorological Representativeness and Work Element 2.2.3 - Fog And Low Clouds Characteristics", prepared by Technical & Business Systems, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

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83. Pandis, S. et al., 1998, “Final Report 1995 Integrated Monitoring Study Data Analysis Fog Effects on PM Concentration and Composition in the SJV”, prepared by Carnegie Mellon University for the San Joaquin Valleywide Air Pollution Study Agency.

84. Blanchard, C. L. et al., 1998, “Final Report for Tasks 4.2.1 and 4.5.6 Spatial Representativeness of Monitoring Sites and Zones of Influence of Emission Sources”, prepared by Envair for the San Joaquin Valleywide Air Pollution Study Agency.

85. Magliano, K. L. et al., 1998, “Final Report Chemical Mass Balance Modeling of Data from the 1995 Integrated Monitoring Study”, prepared by the California Air Resources Board for the San Joaquin Valleywide Air Pollution Study Agency.

86. Carr, E. L. et al., 1998, “Final Report San Joaquin Valley Regional PM-10 Study Characterizing Micrometeorological Phenomena: Mixing and Diffusion in Low Wind Speed Conditions Phase III: Monitoring and Data Analysis”, prepared by Systems Applications International for the San Joaquin Valleywide Air Pollution Study Agency.

87. Dye, T. S. et al., 1998, “Measurement Methods Validation: Adequacy and Validation of Meteorological Measurements Aloft During IMS95”, prepared by Sonoma Technology, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

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90. Carr, E. L. et al., 1998, “1995 Integrated Monitoring Study Data Analysis Work Element 4.6.3: Time and Length Scales for Mixing of Secondary Aerosols During Stagnation Periods”, prepared by Systems Applications International for the San Joaquin Valleywide Air Pollution Study Agency.

91. Collins, J. F., 1998, “Characterization of Boundaries and Backgrounds in the San Joaquin Valley Integrated Monitoring Study 1995”, prepared by University of California Riverside CE-CERT for the San Joaquin Valleywide Air Pollution Study Agency.

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93. Kumar, N., et al., 1998, “Analysis of Atmospheric Chemistry During 1995 Integrated Monitoring Study”, prepared by Sonoma Technology, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

94. Magliano, K. L., et al., 1998, “Draft Modeling Protocol for the California Regional PM10/PM2.5 Air Quality Study: Preliminary Approaches and Data Requirements”, prepared by the California Air Resources Board for the San Joaquin Valleywide Air Pollution Study Agency.

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