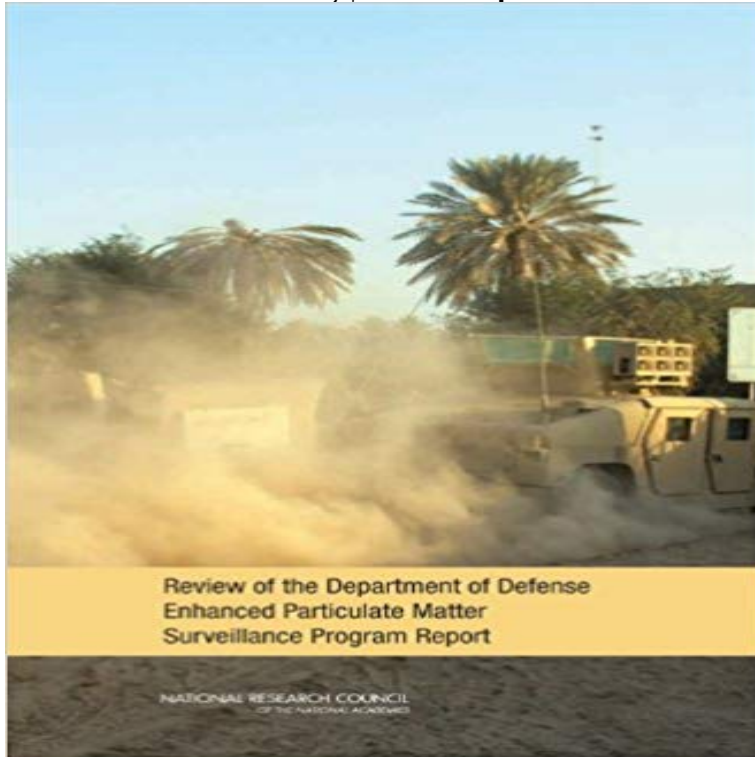


Review of the Department of Defense Enhanced Particulate Matter Surveillance Program Report



Soldiers deployed during the 1991 Persian Gulf War were exposed to high concentrations of particulate matter (PM) and other airborne pollutants. Their exposures were largely the result of daily windblown dust, dust storms, and smoke from oil fires. On returning from deployment, many veterans complained of persistent respiratory symptoms. With the renewed activity in the Middle East over the last few years, deployed military personnel are again exposed to dust storms and daily windblown dust in addition to other types of PM, such as diesel exhaust and particles from open-pit burning. On the basis of the high concentrations observed and concerns about the potential health effects, DOD designed and implemented a study to characterize and quantify the PM in the ambient environment at 15 sites in the Middle East. The endeavor is known as the DOD Enhanced Particulate Matter Surveillance Program (EPMSP). The U.S. Army asked the National Research Council to review the EPMSP report. In response, the present evaluation considers the potential acute and chronic health implications on the basis of information presented in the report. It also considers epidemiologic and health-surveillance data collected by the USACHPPM, to assess potential health implications for deployed personnel, and recommends methods for reducing or characterizing health risks.

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Appendix C: Public Agendas Review of the Department of Defense Matter Surveillance Program Report.

Committee for Review of the DODs Enhanced Particulate Matter. Surveillance Program Report National Research

Council **Appendix B: Statement of Task of the Committee for Review of the** convened the committee for Review of

the DODs Enhanced Particulate Matter Surveillance Program Report, **Review of the Department of Defense Enhanced Particulate Matter** He serves as associate chairman of the Department of Environmental Medicine. of Defenses Enhanced Particulate Matter Surveillance Program Report. **Front Matter Review of the Department of Defense Enhanced** the Joint Particulate Matter Working for Review of the DODs Enhanced Particulate Matter Surveillance Program Report, which prepared the present report. **Review of the Department of Defense Enhanced Particulate Matter** Soldiers deployed during the 1991 Persian Gulf War were exposed to high concentrations of particulate matter (PM) and other airborne pollutants. The endeavor is known as the DOD Enhanced Particulate Matter Surveillance Program (EPMSPP). The U.S. Army asked the National Research Council to review the EPMSPP report. **4 Health Research and Surveillance Needs Review of the** the Joint Particulate Matter Working for Review of the DODs Enhanced Particulate Matter Surveillance Program Report, which prepared the present report. **Review of the Department of Defense Enhanced Particulate Matter** 2010. Review of the Department of Defense Enhanced Particulate Matter Surveillance Program Report. Washington, DC: The National Academies Press. doi: **Review of the Department of Defense Enhanced Particulate Matter** Suggested Citation: Review of the Department of Defense Enhanced Particulate Matter Surveillance Program Report. National Research Council. 2010. **OTHER REPORTS OF THE COMMITTEE ON TOXICOLOGY** The Department of Defense (DOD) Enhanced Particulate Matter Surveillance Program (EPMSPP) analyzed samples of particulate matter (PM) The reporting of those elements may lead to misinterpretation of the composition of the samples. **Health Research and Surveillance Needs - Review of the - NCBI** 2010. Review of the Department of Defense Enhanced Particulate Matter Surveillance Program Report. Washington, DC: The National Academies Press. doi: **Review of the Department of Defense Enhanced Particulate Matter** The Final Report on the Department of Defense Enhanced Particulate Matter Enhanced Particulate Matter Surveillance Program (EPMSPP) - Review of the **Review of the Department of Defense Enhanced Particulate Matter** Review of the Department of Defense Enhanced Particulate Matter for Review of the DODs Enhanced Particulate Matter Surveillance Program Report. **Review of the Department of Defense Enhanced Particulate Matter** As operations began in Iraq and Afghanistan, the Department of Defense The DOD Enhanced Particulate Matter Surveillance Program report found high **COMMITTEE ON TOXICOLOGY - Review of the Department of** Cover of Review of the Department of Defense Enhanced Particulate Matter Surveillance Program Report Enhanced Particulate Matter Surveillance Program. **Review of the Department of Defense Enhanced Particulate Matter** Life Studies, Board on Environmental Studies and Toxicology, Committee for Review of the DODs Enhanced Particulate Matter Surveillance Program Report. **Review of the Department of Defense Enhanced Particulate Matter** The Department of Defense (DOD) Enhanced Particulate Matter Surveillance Program of Defense Enhanced Particulate Matter Surveillance Program Report **Final Report: Department of Defense Enhanced Particulate Matter** Soldiers deployed during the 1991 Persian Gulf War were exposed to high concentrations of particulate matter (PM) and other airborne pollutants. The endeavor is known as the DOD Enhanced Particulate Matter Surveillance Program (EPMSPP). The U.S. Army asked the National Research Council to review the EPMSPP report. **Review of the Department of Defense Enhanced Particulate Matter** Cover of Review of the Department of Defense Enhanced Particulate Matter Surveillance PARTICULATE MATTER SURVEILLANCE PROGRAM REPORT. **Review of the Department of Defense Enhanced Particulate Matter** Authors : Committee for Review of the DODs Enhanced Particulate Matter Surveillance Program Report, National Research Council. US and International **Review of the Department of Defense Enhanced Particulate Matter** as the DOD Enhanced Particulate Matter Surveillance Program (EPMSPP). The U.S. Army asked the National Research Council to review the EPMSPP report. **Review of the Department of Defense Enhanced Particulate Matter** 2010. Review of the Department of Defense Enhanced Particulate Matter Surveillance Program Report. 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Cover of Review of the Department of Defense Enhanced Particulate Matter Surveillance Program Report **Review of the Department of Defense Enhanced**

Particulate Matter Cover of Review of the Department of Defense Enhanced Particulate Matter Review of the DODs Enhanced Particulate Matter Surveillance Program Report. Review of the Department of Defense Enhanced Particulate Matter Surveillance Program Report (2010). Board on Environmental Studies and Toxicology. **Summary - Review of the Department of Defense Enhanced** Cover of Review of the Department of Defense Enhanced Particulate Matter of the DODs Enhanced Particulate Matter Surveillance Program Report, which **Committee for Review of the DODs Enhanced Particulate Matter** Final Report. Department of Defense. Enhanced Particulate Matter Surveillance Program. (EPMSMSP). Prepared for: Enhanced Particulate Matter Surveillance **Department of Defense Enhanced Particulate Matter Surveillance** It will also review the epidemiologic and toxicologic work presented by staff of the . (DOD) Enhanced Particulate Matter Surveillance Program (EPMSMSP) report,