

Air Force Approach Using DoD VI Guidance
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The Air Force began evaluating the vapor intrusion pathway in the mid-1990s using simple tools such as the Farmer model, box model and the earliest versions of the Johnson & Ettinger model. Investigation of the vapor intrusion pathway was neither uniform nor widespread at Air Force installations and guidance was severely lacking. As the regulatory community became more informed about the pathway and began to request assessments thereof, the Air Force began to develop internal guidance to help them address the pathway at their numerous chlorinated solvent and jet fuel-contaminated sites. As more sophisticated techniques became available, each of the services, in turn, began to develop their own guidance and technical approaches. In January 2009, the Office of the Secretary of Defense released the “DoD Vapor Intrusion Handbook”, a product of the Tri-Service Environmental Risk Assessment Workgroup. The Handbook was developed - with significant input from the various technical centers in the Army, Navy and Air Force - to serve as a resource for remedial project managers needing to investigate the vapor intrusion pathway at Department of Defense sites. The handbook provides a general framework for conducting these investigations under the Defense Environmental Restoration Program and discusses both residential and occupational exposure scenarios that might occur on a DoD installation. This talk will highlight the elements of the handbook and compare it to other guidance, such as those issued by the US Environmental Protection Agency and the Interstate Technology Regulatory Council, and describe specific Air Force approaches to address risk management and policy issues related to vapor intrusion.