

- ARCHIVE:** Archived because this document no longer provides current guidance and because revisions made to VAP rules in 2002 in OAC Chapter 3745-300 necessitate revisions to this guidance. Refer to VA30007.03.013 for the updated document.
- TITLE:** Appropriate SESOIL Version to use for Voluntary Actions
- DATE EFFECTIVE:** September, 1997
- KEYWORDS:** SESOIL, fate and transport model; modeling; leaching; leach-based soil values
- RULES:** VAP rule citations related to this issue: OAC 3745-300-10 (requires an applicable standard for the leaching pathway to ground water); OAC 3745- 300-09 (contains data requirements and acceptable mathematical models for assessing the leaching pathway)
- QUESTION:** What version of SESOIL is appropriate for use when conducting voluntary actions?
- ANSWER:** The appropriate version of SESOIL to be used when conducting voluntary actions would be the SESOIL, Version 2.5; SESOIL version dated May 1995 (or any later version). SESOIL was originally developed for U. S. EPA's Offices of Water and Toxic Substances in 1981. Since its development, the model has undergone many improvements and it continues to be revised periodically. Presently, a public domain MS-DOS version of SESOIL is available from U. S. EPA; however, this version has not been validated or shown to work under a number of "leaching" scenarios. In addition, this version has had a number of mass balance discrepancies in the calculation algorithms.
- It is not the intent of the VAP to dictate the selection of leaching software to be utilized by the volunteer. It is, however, expected that the correct version of SESOIL be used, as detailed above, when SESOIL is the model chosen for assessment of a voluntary action property.
- SUMMARY:** The appropriate version of SESOIL to be used for the VAP would be the SESOIL Version 2.5; the SESOIL version dated May 1995, (or

any later version). This is due to a number of mass balance discrepancies in calculation algorithms contained in the public domain MS-DOS version of SESOIL.

**OHIO EPA**  
**CONTACT:**

For any questions concerning this issue, please contact the VAP central office at (614) 644-2924.