

ARCHIVE: Archived due to the 2009 rule revision. Refer to VA30007.09.019 for the updated document.

TITLE: Appropriate SESOIL Version to Use for Voluntary Actions

DATE EFFECTIVE: January 2003

HISTORY: Update of VA3007.97.002 - Revision was necessary to conform to rule revisions that became effective on October 21, 2002. Also, the archived TDC document no longer provides current guidance.

KEYWORDS: SESOIL, fate and transport model; modeling; leaching; leach-based soil values, LBSV

RULE/ AUTHORITY: OAC 3745-300-07(D)(4); 3745-300-07(F); 3745-300-10(E); 3745-300-10(F)(2)(b)(ii), (F)(2)(c)(ii), (F)(3)(b)(ii), (F)(3)(c)(ii), (F)(4)(b)(ii) and (F)(4)(c)(ii)

QUESTION: What version of SESOIL is appropriate for use when conducting voluntary actions?

ANSWER: 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 version be code-verified and scientifically valid for the process being modeled as required by OAC 3745-300-07(F). The volunteer should be aware that early SESOIL public domain MS-DOS version (Pre-1995) had mass balance discrepancies. These errors have been corrected in many of the proprietary SESOIL pre- and post-processor packages that are currently available. The user should verify with the model provider that these mass balance errors have been corrected in their version.

BACKGROUND: OAC 3745-300-07(D)(4) requires the volunteer to demonstrate continued compliance with the provision of protecting ground water meeting unrestricted potable use standards (UPUS). The ground water response requirements in OAC 3745-300-10(F)(2)(b)(ii), (F)(2)(c)(ii), F(3)(b)(ii), (F)(3)(c)(ii), (F)(4)(b)(ii) and (F)(4)(c)(ii) require that remedial activities be implemented to prevent leaching from sources or source areas on the property that will result in UPUS being exceeded in ground water at a compliance point. (Note: SESOIL model will only address what COCs will reach ground water and does not address fate and transport within the ground water zone.)

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CONTACT:

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