

November 29, 2000

To: Water Resources Division

From: Peter F. Rogerson, Senior Chemist
Office of Water Quality

For: LeRoy Schroder, Chief
Branch of Quality Systems

Subject: Approval of 13 Additional Selected Herbicides and their Degradation Products to Method O-2132-99 as Described in Open File Report 98-634

The Office of Water Quality (OWQ) has approved the addition of 14 selected herbicides and their degradation products to a previously approved water-quality analytical method by the U.S. Geological Survey (USGS) Organic Chemistry Research Group, Lawrence, Kansas. The previous method is for the determination of triazine and chloroacetanilide herbicides in water by solid-phase extraction and capillary-column gas chromatography-mass spectrometry with selected ion monitoring, by L. R. Zimmerman and E. M. Thurman. U.S. Geological Survey OFR 98-634. It was approved on August 23, 1999.

This water-quality analytical methods approval follows the technical procedure specified in OWQ Tech Memo 98.05. The method performance of the 13 additional compounds is described in:

Methods of Analysis by the U.S. Geological Survey Organic Geochemistry Research Group - Determination of Selected Herbicides and their Degradation Products in Water using Solid-Phase Extraction and Gas Chromatography/Mass Spectrometry, by J.L. Kish, E.M. Thurman, E.A. Scribner, and L.R. Zimmerman. U.S. Geological Survey OFR 00-385.

Method O-2132-99 is now approved for 29 herbicides and degradation products in samples of filtered water. For convenience, the Organic Chemistry Research Group at Lawrence, KS, offers these 29 analytes in two groups: SMHRB (Corn & Soybeans, analysis code GCS) and RCM (Rice & Cotton, analysis code GCR). The attached Excel Spreadsheet lists the analytes for each group, along with the National Water Information System (NWIS) Parameter Codes and Method Codes used for each analyte. Note that each group is identified with a separate method code, and that there are separate method codes for data prior to and subsequent to methods approval.

The fixed value for the analyzing agency (parameter code 00028) is: 82013 (District Research Water-Quality lab, Lawrence, KS.)

If you would like a copy of either the original or the new report, please contact Betty Scribner (scribner@usgs.gov) (785) 832-3564. If you have questions about the method approval process, please contact Pete Rogerson (rogerson@usgs.gov) (303) 236-1836.

Attachment: Excel Spreadsheet containing Parameter and Method Codes for all analytes in the above method.