



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Pat McCrory
Governor

UST Section
Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

December 1, 2013

MEMORANDUM

TO: Responsible Parties, Environmental Service Companies, Consultants, and Other Interested Parties

CC: UST Section Regional Supervisors
Vance Jackson TFB Head and Ruth Strauss PIB Head

FROM: Robert Davies, UST Section

SUBJECT: Changes to the tables of approved methods for groundwater analysis in the *Guidelines for Ex Situ Petroleum Contaminated Soil Remediation*

Changes have been made to the text and tables which present approved methods for groundwater analysis and sample containers/preservation in the *Guidelines for Ex Situ Petroleum Contaminated Soil Remediation*, effective from December 1, 2013.

The changes were required because sample preparation for analysis of metals (chromium and lead) in groundwater by Standard Method 3030C, "Preliminary Treatment for Acid-Extractable Metals", is no longer required. The basic preparation requirements of 3030C for determination of total metal concentration in unfiltered samples are incorporated in current analytical methods from sources listed in 15A NCAC 2L .0112 and 2L .0413. The [APS Metals Policy Update memorandum](#) dated May 13, 2013 describes the current policy developed by the Division of Water Resources for metals determination.

The changes were made to the text on page 22 and to Tables 5 and 6 in the *Guidelines for Ex Situ Petroleum Contaminated Soil Remediation* (August 23, 2012 Version), as Change 1.

If you have questions, please contact Linda Smith by mail at Green Square Complex, DENR Office Building, 1637 MSC, Raleigh, NC 27699 or by email at linda.l.smith@ncdenr.gov.