

DEPARTMENT OF THE ARMY  
U. S. Army Corps of Engineers  
Washington, D. C. 20314-1000

EM 200-1-6

CEMP-RT

Manual  
No.200-1-6

10 October 97

Environmental Quality  
CHEMICAL QUALITY ASSURANCE FOR  
HAZARDOUS, TOXIC AND RADIOACTIVE WASTE (HTRW) PROJECTS

1. **Purpose.** This Engineer Manual (EM) provides specific guidance, procedures, criteria, and tools for chemical implementation of the U. S. Army Corps of Engineers (USACE) HTRW Quality Assurance (QA) Program. Chemical QA is required to ensure analytical data generated for all projects meet the criteria prescribed by the technical project planning (TPP) team. This EM is intended for use by USACE personnel as a critical companion document to ER 1110-1-263.
2. **Applicability.** This manual applies to all USACE commands having responsibility for HTRW projects.
3. **References.** References are provided in Appendix A.
4. **Distribution Statement.** Approved for public release, distribution unlimited.
5. **Discussion.** This manual provides guidance for implementation of analytical chemistry aspects of the USACE HTRW QA program. The manual provides detailed guidance on meeting the requirements of ER 1110-1-263 and ER 1180-1-6. Included are suggestions for establishment of quality control (QC) and QA protocols needed to ensure fulfillment of chemical quality requirements in support of project specific data quality objectives (DQOS) .

FOR THE COMMANDER:



OTIS WILLIAMS  
Colonel Corps of Engineers  
Chief of Staff

3 Appendices  
App A - References  
App B - Acronyms  
App C - Definitions