

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

EM 200-1-2

CEMP-RT

Manual  
No. 200-1-2

31 August 98

**Environmental Quality**  
**TECHNICAL PROJECT PLANNING (TPP) PROCESS**

**1. Purpose.** This Engineer Manual (EM) describes the Technical Project Planning (TPP) process for identifying project objectives and designing data collection programs at hazardous, toxic, and radioactive waste sites. The TPP process helps ensure that the requisite type, quality, and quantity of data are obtained to satisfy project objectives that lead to informed decisions and site closeout. The TPP process can be used from investigation through closeout at small, simple sites as well as large, complex sites. The TPP process is a critical component of the U.S. Army Corps of Engineers (USACE) quality management system that meets the American National Standard for planning the collection and evaluation of environmental data. This EM is intended for use by USACE project managers and both technical and contractor personnel for implementation of Engineer Regulation (ER) 5-1-11.

**2. Applicability.** This EM applies to all HQUSACE elements and USACE commands responsible for hazardous, toxic, and radioactive waste projects.

**3. References.** References are listed in Appendix A.

**4. Distribution.** Approved for public release, distribution is unlimited.

**5. Discussion.** The four-phase TPP process is a comprehensive and systematic planning process that will accelerate progress to site closeout within all project constraints. Project objectives are identified and documented early during Phase I of the TPP process to establish the focus required to achieve site closeout for the customer. Phases II and III provide a framework to develop data collection options for the customer's consideration during Phase IV. The project-specific data quality requirements established throughout the TPP process are then documented as data quality objectives during Phase IV. Many other documentation tools within this EM also encourage detailed data collection planning and contribute to maintaining institutional site knowledge.

FOR THE COMMANDER:

7 Appendices  
(See Table of Contents)



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This manual supersedes EM 200-1-2 dated 31 July 95.