

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

ER 1110-1-2005

CECW-EG

Regulation  
No. 1110-1-2005

1 January 1999

**Engineering and Design  
COMPILATION OF CONCRETE AGGREGATE  
AND STONE RIPRAP TEST DATA**

**1. Purpose**

This regulation prescribes the procedures for the continuing compilation and distribution of test data on concrete aggregates and stone riprap from sources within the continental United States and Alaska.

**2. Applicability**

This regulation applies to all USACE Commands having military programs and/or civil works engineering and design responsibilities.

**3. References**

*a.* AR 335-15, Management Information Control Systems.

*b.* Technical Memorandum No. 6-370, Test Data - Concrete Aggregates and Stone Riprap in Continental United States and Alaska.

**4. Background**

In 1953, the U.S. Army Engineer Waterways Experiment Station (WES) compiled and published concrete aggregate test data in five loose-leaf volumes. A sixth volume encompassing Alaskan sources was published in 1976, and test data on stone riprap were published in 1982. In 1990, the 6-volume test data were expanded into 16 volumes and reissued. In 1994, all test data were converted to an electronic database and distributed in the form of a compact disc read-only memory (CD-ROM). In 1998, the database went online on the World Wide Web. This database comprises Technical Memorandum (TM) No. 6-370. Test data are arranged by geographic location and include the types of materials available and comparable properties of these materials. Data are kept current through issuance of a new CD-ROM disc.

**5. Distribution Statement**

Approved for public release; distribution is unlimited.

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This regulation supersedes ER 1110-1-2005, dated 31 August 1994.

## 6. Policy

TM 6-370 provides a comprehensive source of information on concrete aggregate and riprap sources and eliminates costly duplication of testing during preliminary investigation and design stages. A ready source of aggregate and stone locations for quick reference during emergency situations is also provided.

## 7. Submission of Data

a. Aggregate and riprap data sheets shall be submitted by all district commanders to the Commander, U.S. Army Engineer Waterways Experiment Station, 3909 Halls Ferry Road, Vicksburg, Mississippi 39180-6199, Attention: CEWES-SC-E. ENG Forms 6011-R and 6012-R (Appendices A and B) shall be used to report concrete aggregate and riprap data, respectively. (Exempt report, para 7-2w, AR 335-15.) As an option, data may be submitted in electronic format. A template for this purpose is available from CEWES-SC-E.

b. The data shall include the results of all tests performed by the districts' project quality assurance laboratory or commercial Quality Assurance/Quality Control (QA/QC) laboratory pertaining to the selection of concrete aggregates and riprap stone proposed for the project. To adequately identify the source, the data should include all pertinent information, such as the name of the producer, including names used formerly, exact location or legal description of the source, and sampling location within the source, if possible.

c. The data submittal from each district commander shall be sent to CEWES-SC-E no later than 30 days after the data have been furnished to the district from the project QA laboratories or commercial QA/QC testing laboratories. Timely issuance of the annual updated CD-ROM disc by WES is incumbent upon observation of this deadline by each district commander.

## 8. Compilation and Distribution

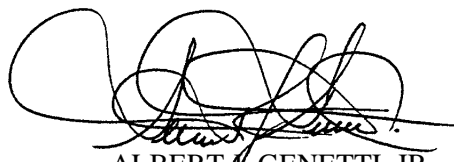
a. The Commander, WES, is responsible for reviewing, editing, compiling, and distributing the database.

b. The database is provided on the World Wide Web under the current address, "WWW.wes.army.mil/SL/TM6370/agg-db.htm" (address is case sensitive), or may be accessed from the WES Homepage, then the Structures Laboratory Webpage, and then the Technology Transfer section. The database may also be sent to the National Institute of Building Sciences for enclosure in the Construction Criteria Base. The database in CD ROM disc format may also be distributed each year upon request to current holders of TM 6-370. The previous CD-ROM disc should be discarded upon receipt of the new edition.

c. Compilation and distribution of the database and CD-ROM disc by WES will be funded by CECW-EG.

FOR THE COMMANDER:

2 Appendices  
APP A - ENG Form 6011-R  
APP B - ENG Form 6012-R



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