



**US Army Corps
of Engineers**
New Orleans District

Contractor's Documentation Checklist

SITE MAP

- Site map should show boundary of property and must include latitudes and longitudes.

VICINITY MAP

- Vicinity map should use USGS 1:24,000 quad maps as a background and zoomed out enough to show nearest city or town.

WETLANDS DETERMINATION

- Package must include Corps of Engineers Jurisdictional Determination (JD) letter and map.
- If wetlands are to be impacted, a Section 10/404 permit will be required.

COASTAL ZONE MANAGEMENT (CZM)

- Package must include a Letter of No Objection or Coastal Use Permit (CUP) from the Louisiana Department of Natural Resources for pits in Louisiana, or respective state agency for other states.

THREATENED ENDANGERED SPECIES

- Package must include the consultant's report and a concurrence letter from the U.S. Fish & Wildlife Service.
- The consultant's report must include a map of the studied area with the study area boundary defined by latitudes and longitudes.

CULTURAL RESOURCE REPORT

- Package must include seven (7) bound copies of a Phase I cultural resource investigation report prepared by a professional cultural resource management (CRM) company.
- The report must include a map of the studied area with the study area boundary defined by latitudes and longitudes.

ENVIRONMENTAL SITE ASSESSMENT

- Package must include an Environmental Site Assessment (ESA) that shows a low risk of encountering recognized environmental conditions (REC).
- The ESA must conform to ASTM 1527-05 standards.
- The ESA must include a map of the studied area with the study area boundary defined by latitudes and longitudes.

SOIL BORING ANALYSIS

A Geotechnical Report stamped and signed by a licensed civil engineer with a specialization in geotechnical engineering certifying that the proposed source contains suitable material meeting the specifications outlined in our Soil Boring Fact sheet (page 3).

If a borrow site is within 1,500 feet of the Mississippi River Levee (MRL) or within 300 feet of a Hurricane Protection Levee (HPL), a permit from the local sponsor **MUST** be included. For additional information regarding this permit, please contact Amy Powell at Amy.E.Powell@usace.army.mil (504) 862-2241 OR Karen Oberlies at Karen.L.Oberlies@usace.army.mil (504) 862-2313.

AGRONOMY REPORT

- Package must include an agronomy report.

BORROW AREA MANAGEMENT PLAN

- Borrow area management plan must include map that clearly shows access roads and stockpiling & staging areas.

MITIGATION REQUIREMENTS

Package must include a written plan and map that describes and shows any areas subject to laws or regulations (Clean Water Act Section 404, Rivers and Harbors Act Section 10, National Historical Preservation Act, HTRW, etc) that hold jurisdiction within the proposed borrow area. Borrow area is defined as to include access routes, loading and unloading facilities, staging areas, etc. Plan and maps must clearly show areas/resources being avoided, areas where any impacts were minimized, and areas where it has been determined that impacts are unavoidable. Resources include, but are not limited to areas of cultural interest, upland forested areas, Wetlands subject Section 404 of the Clean Water Act, any Threatened and Endangered species including any habitat deemed critical by the U.S. Fish and Wildlife Service, areas found to be hazardous, toxic, or to contain radioactive waste. The U.S. Army Corps of Engineers New Orleans District (CEMVN) Environmental Team Coordinator will determine the consequences of a proposed action on any resources identified on the property in question.

Plan and maps will be reviewed by CEMVN staff and based upon the judgment of the Environmental Team Coordinator will be accepted or sent back to the party submitting the packet for modification. Once packet is accepted as part of the submittal, it is the responsibility of the person submitting the package to provide written proof that any mitigation deemed necessary by the CEMVN to be a part of the proposed pre-Approved Contractor Furnished borrow site has been accomplished. Proof of mitigation will be supplied prior to final approval of a site being added to pre-Approved Contractor Furnished list that is being maintained by the CEMVN.

Please note that pre-approved pits may never be utilized. As such, an applicant may want to include appropriate provisions in any compensatory mitigation agreement so that the applicant could recover the investment if the pit is never used.

SOIL BORING FACTSHEET

The Geotechnical Report must consist of a summary and conclusion section in the main body of the report with any supporting data attached separately. The licensed engineer shall determine the sub-surface investigations required. These investigations should include but are not limited to continuous soil borings and test pits. Cone Penetrometer tests may also be included to supplement the physical samples and lab testing provided.

Investigations shall be spaced according to the geotechnical engineer's sub-surface evaluation and be representative of the entire proposed source. The licensed engineer's test plan must provide a comprehensive sampling to at least 5 feet below the bottom of the proposed excavation.

All soil samples must be classified in accordance with the Unified Soil Classification system. See below for required soil testing. The supporting data attached to the geotechnical report shall be comprehensive and include as a minimum all field logs, soil sampling and testing results, and a detailed investigation location map with the location of the potential borrow source and all investigation locations superimposed. The soil investigation locations must include latitudes and longitudes for plotting purposes.

LABORATORY TESTS

1. Soil classification shall be performed in accordance with the Unified Soil Classification System and ASTM D 2487.
2. Atterberg Limits Test shall be performed in accordance with ASTM D 4318.
3. Determination of moisture content shall be performed in accordance with ASTM D 2216 or ASTM D 4643.
4. Determination of organic content shall be performed in accordance with ASTM D 2974, Method C.
5. Control compaction curves shall be established in accordance with ASTM D 698 (Standard Proctor Compaction Tests). A control compaction curve is required for each soil type from each source. Where material is blended and stockpiled, a control compaction curves will be required for each resulting blend of material and will be utilized in lieu of those required for the "unblended materials".
6. Sand Content shall be determined by- 200 wash in accordance with ASTM D-1140.

TEST PROCEDURE FOR BORINGS

1. A moisture content determination shall be made and recorded on all samples classified as (CH), (CL), and (ML) at no less than 2 foot intervals.
2. For (CH), (CL), and (ML) soils, Atterberg Limits and Organic Content Testing (ASTM D 2974, Method C), is required every 5 feet (minimum).

3. Samples with moisture contents at 70% or higher or having a Liquid Limit of 70 or higher must be tested for organic content for that sample as well as for a sample 2 feet above and 2 feet below that sample.
4. Sand content tests will be required for samples that classify as CL (with a PI greater than 10) and for all clay samples (CH and CL) with greater than 10% coarse grain materials estimated by visual classification for 2 or more consecutive feet.
5. Sand content tests shall be limited to one test every 5 feet of sampling and shall conform to ASTM D1140-00 (#200 sieve required).
6. Sand content tests will be required for samples that classify as a ML, but limited to one test every 5 feet of sampling.