<span style="color:steelblue">Electronic Data Delivery (EDD)
Guidelines</span>

# Deposit/Borrow Area Data Requirements

This document contains instructions for data delivery of **deposit/borrow area data**. This document outlines the folder structure, file contents, and file naming requirements for the data deliverables.
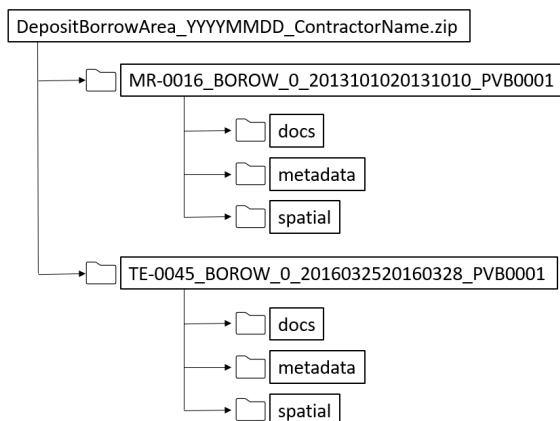
A data deliverable must contain:

1. a GIS polygon layer, in Esri shapefile format describing the deposit and/or borrow location with associated attribution,
2. metadata documents in *.html and *.xml format, and
3. optionally, other supporting documents such as borrow area maps, reports, etc.

All delivered spatial data must be provided in the <u>Horizontal Coordinate System: UTM NAD83 Zone 15 (meters)</u> and the <u>Vertical Datum: NAVD88 (feet)</u>. Delivered files will be compressed into a single *.zip file named DepositBorrowArea_YYYYMMDD.zip, where 'YYYYMMDD' is the date the data package was delivered to CPRA, and whose structure, and contents are defined below.

Data deliverables for deposit / borrow area data must include:

1) Zipped <u>processed</u> data package folder structure and contents:
   *Example:*

   *Figure 1: Zipped data package deliverable folder structure and contents example*

   

   a. "**docs**" folder: Associated files. That are not metadata, nor spatial data. These could include deposit drawings, borrow area models, reports and/or the actual borrow area site plan. NOTE: only PDFs, JPGs and ZIPs accepted. The name of the file should be stored in the DATAURL field of the spatial data.

*Khalil, S. M., Haywood, E., Wager, R., and Forrest, B., 2022. Standard Operating Procedures for Geo-scientific Data Management, Louisiana Sand Resources Database (LASARD) Revised 2022, Coastal Protection and Restoration Authority of Louisiana (CPRA), 29pp.*

b.  "**metadata**" folder: Metadata - FGDC compliant metadata in XML and HTML format and named using the File Naming Convention.

   i. The contractor must ensure the "Data_Quality_Information > Lineage > Process_Step" sections of the metadata record covers the details of any data processing along with pertinent geodetic associated information (including but not limited to Horizontal Coordinate System, Vertical Datum, Geoid, Ellipsoid, Epoch, Vertical Benchmark, etc.). Metadata should clearly address the data collection process and clearly describe the units for any collected or sampled parameters.  The contractor must ensure the provided metadata addresses data (e.g., to reports, designs or images) to which each deposit and/or borrow area will "link."

c.  "**spatial**" folder: Vector locations as a GIS polygon layer using the Esri shapefile format following the LASARD templates for deposit / borrow area data using the geometry and attribution information below and, named using File Naming Convention.:

   i. Attribute Specifications, Table: Deposit/BorrowAreas *(also provided in Table 1 below)*
   ii. GIS Shapefile Template: Deposit_Borrow_Areas.shp

**List of required attributes for each POLYGON included in a data deliverable.**
*(From – Attribute Specifications, Table:  Deposit/Borrow Areas)*
*NOTE:  The following special characters are NOT allowed within any elements:  #, <, >, $, +, %, !, `, &, *, ', |, {, }, ?, ", =, /, :, \, ;, @, blank spaces or commas.*

*Table 1: Attribute Specifications*

| Field Name | Field Alias | Description | Specific GIS Data Type | If data value unknown, enter |
|---|---|---|---|---|
| PROGRAM | Program | Program (CWPPRA, LCA, STATE, ...). | Text (20) | UNKNOWN |
| PROJECT | Project | Project name or title. | Text (200) | UNKNOWN |
| PROJ_ID | Project ID | Project number (state id, federal id, …). | Text (20) | UNKNOWN |
| DATE_DES | Date Designed | Date designed (YYYYMMDD). | Text (10) | 99999999 |
| DATE_DRG | Date Dredged | Date dredged (YYYYMMDD). | Text (10) | 99999999 |
| AREA_ID | Area ID | Deposit or borrow area identifier/name. | Text (50) | UNKNOWN |
| AREA_TYPE | Area Type | Deposit or borrow area type. (see area type table below) | Text (50) | UNKNOWN |
| MAT_CAT | Material Category | Major division of materials in the borrow area. (see material category table below) | Text (25) | UNKNOWN |
| MAT_INFO | Material Information | Detailed description of materials in the borrow area (percentage, grain size, group name, ...). | Text (100) | UNKNOWN |
| DES_Z_FT | Designed Elevation (ft) | Elevation of the designed excavation limits (feet, NAVD 88). | Double (10,2) | -9999 |
| DES_Z_M | Designed Elevation (m) | Elevation of the designed excavation limits (meters, NAVD 88). | Double (10,2) | -9999 |
| EXCAV_Z_FT | Excavated Elevation (ft) | Elevation of the dredged excavation limits (feet, NAVD 88). | Double (10,2) | -9999 |

Khalil, S. M., Haywood, E., Wager, R., and Forrest, B., 2022. Standard Operating Procedures for Geo-scientific Data Management, Louisiana Sand Resources Database (LASARD) Revised 2022, Coastal Protection and Restoration Authority of Louisiana (CPRA), 29pp.

| EXCAV_Z_M | Excavated Elevation (m) | Elevation of the dredged excavation limits (meters, NAVD 88). | Double (10,2) | -9999 |
|---|---|---|---|---|
| DES_VOL | Designed Volume (cu yd) | Estimated total volume of sediment in borrow area (units measured in cubic yards). | Double (10,0) | -9999 |
| DRG_VOL | Dredged Volume (cu yd) | Volume (units measured in cubic yards) of sediment dredged from the borrow area. | Double (10,0) | -9999 |
| PST_DRGVOL | Post Dredged Volume (cu yd) | Volume (units measured in cubic yards) of sediment remaining. | Double (10,0) | -9999 |
| V_BENCH | Vertical Benchmark | Vertical benchmark used. | Text (50) | UNKNOWN |
| CONTRACTOR | Contractor | Name of contractor that collected the data | Text (100) | UNKNOWN |
| ORG | Organization | Organization that ordered the work. | Text (100) | UNKNOWN |
| DATAURL | Additional Data | The file name of additional data file(s) associated with the feature that are located in the docs folder.<br><br>Individual portable document format (pdf) or JPG files, such as a boring log, do not require zip compression. However, all other data files (csv, txt, xyz, etc…) including all multiple file combinations require zip compression. | Text (200) | UNKNOWN |
| Meta_xml | XML Metadata File | The CPRA File Naming Convention-compliant file name of the xml metadata file located in the metadata folder.<br><br>Example: **MR-0016_BOROW_0_2013101020131010_PVB0002.xml.** | Text (200) | UNKNOWN |
| Meta_html | HTML Metadata File | The CPRA File Naming Convention-compliant file name of the html metadata file located in the metadata folder.<br><br>Example: **MR-0016_BOROW_0_2013101020131010_PVB0002.html.** | Text (200) | UNKNOWN |
| COMMENTS | Comments | Special comments pertaining to a specific GIS record. | Text (250) | <NULL> |

CPRA currently recognizes five area types and four material categories *(see tables below).*

*Table 2: Deposit/Borrow Area Type*

| |
|---|
| Potential Deposit Area |
| Borrow Area |
| Offshore Disposal Site |
| Re-handling Area |
| Staging Area |

*Table 3: Material Category*

| |
|---|
| Sand |
| Mixed Sediment |
| Fines |
| Unknown |

*Khalil, S. M., Haywood, E., Wager, R., and Forrest, B., 2022. Standard Operating Procedures for Geo-scientific Data Management, Louisiana Sand Resources Database (LASARD) Revised 2022, Coastal Protection and Restoration Authority of Louisiana (CPRA), 29pp.*

*File Naming Convention elements are separated by underscores as follows:*

> *Elements are separated by underscores as follows:*
> **Element 1** Project: MR-0016 (Mississippi River Hydrodynamic and Delta Management Study CPRA Project ID)
> **Element 2** Data Type Code: BOROW (Borrow Area)
> **Element 3** Place: 0 (Single 0 for data delivered to CPRA)
> **Element 4** Date: 2013101020131010 (Data was collected on a single day)
> **Element 5** Sequence: PVB0002 (Processed data, data provider/processor's initials "VB," sequence value of 0002)
> **Element 6** Optional: N/A (Since there is no optional value, the delimiter and any padding is eliminated)
>
> ***Data package deliverable folder name (Example):***
> *MR-0016_BOROW_0_2013101020131010_PVB0002*

*Khalil, S. M., Haywood, E., Wager, R., and Forrest, B., 2022. Standard Operating Procedures for Geo-scientific Data Management, Louisiana Sand Resources Database (LASARD) Revised 2022, Coastal Protection and Restoration Authority of Louisiana (CPRA), 29pp.*