Electronic Data Delivery (EDD) Guidelines

Sediment Samples / Grain Size Data Requirements

This document contains instructions for data delivery of **sediment samples/grain size data**. This document outlines the folder structure, file contents, and file naming requirements for the data deliverables.

A data deliverable must contain:

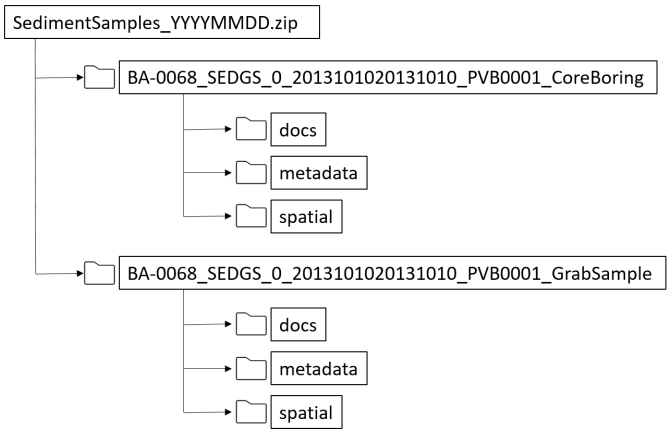
1. a GIS point layer, in Esri shapefile format describing the sampling locations with associated attribution,
2. metadata documents in *.html and *.xml format, and
3. supporting documents such as boring logs, grain size distribution reports and/or curves, geotechnical reports in pdf format.

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

Data deliverables for sediment samples / grain size data must include:

1) Zipped processed data package folder structure and contents:
Example:

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



   a. "**docs**" folder: Includes final project report and, if applicable, a shortened pdf of each individual core boring and its associated data (e.g., core log, core photos, sediment analyses). Record the name of the core log pdf in the CORLOG_URL field of the shapefile in the row of the feature(s) associated with the file. Record the name of the Project Report pdf in the REPORT_URL field:
      i. .pdf file of the individual CORE LOG
         1. Example Core Log file:https://cims.coastal.louisiana.gov/meta_docs/gis_refs/sediment_samples/BF0093/GLVC-10-01.pdf

ii. .pdf file of the Project Report
    1. Example Project Report: https://cims.coastal.la.gov/RecordDetail.aspx?Root=0&sid=12192#

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, logs or images) to which each sediment sample/grain size sample will "link."

c. "**spatial**" folder: Vector locations as a GIS point layer using the Esri shapefile format following the CPRA shapefile template for core borings/grab samples data using the geometry and attribution information below and, named using the CIMS File Naming Convention.
    i. Attribute Specifications, Tables: Core Borings and Grab Samples *(also provided in tables below)*
    ii. GIS Shapefile Templates: CoreBoringShapefileTemplate.shp and GrabSampleShapefileTemplate.shp

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

Table 1: Core Boring Attributes

Field Name	***Alias***	***Description***	***Specific GIS Data Type***	***Unknown Data Values***
BOR_METHOD	Core Boring Method	Method used to collect the core boring. (see core boring methods table below)	Text (50)	UNKNOWN
PROGRAM	Program	Funding 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_COLL	Date Collected	Date collected (YYYYMMDD).	Text (10)	99999999
CORE_ID	Core ID	Core identifier (i.e. GLVC-10-01, CB-01, etc…)	Text (50)	UNKNOWN
ENVIRONMENT	Environment	Environment where sample was collected. (see environment table below)	Text (20)	UNKNOWN
PENETRATE	Penetration Depth (ft)	Depth of penetration relative to seafloor/mudline (measured in feet).	Double (10,2)	-9999
CORELENGTH	Core Length (ft)	Total length of core recovered (measured in feet).	Double (10,2)	-9999
RECOVERY	Core Length Recovered (%)	Recovered length of core vs. penetration (measured with percentage).	Double (3,0)	-9999
X	X Coordinate (m)	Easting (X coordinate) value in meters (UTM).	Double (10,2)	-9999
Y	Y Coordinate (m)	Northing (Y coordinate) value in meters (UTM).	Double (10,2)	-9999

Z_FT	Elevation (ft)	Top of core (mudline) elevation (feet, NAVD 88).	Double (10,2)	-9999
T_FINES	Fines Thickness (ft)	Thickness in feet of surficial deposit consisting predominantly (70-100%) of FINES (material passing the #200 sieve) with <30% SAND.	Double (8,2)	-9999
T_MIX	Mixed Sediment Thickness (ft)	Thickness in feet of uppermost mixed sediment deposit containing a mixture of 30-70% sand with the remaining fraction comprised of FINES (material passing the #200 sieve).	Double (8,2)	-9999
T_SAND	Sand Thickness (ft)	Thickness of uppermost sandy deposit containing 30% or less fines (material passing the #200 sieve). Generalized deposit thickness may include minor amounts of mixed sediment or clay.	Double (8,2)	-9999
CONTRACTOR	Contractor	Name of contractor that collected the data.	Text (100)	UNKNOWN
ORG	Organization	Organization that ordered the work.	Text (100)	UNKNOWN
REPORT_URL	Report	Name of report (pdf) Example: **BA-0068 Geotechnical Report.pdf**	Text (200)	UNKNOWN
CORLOG_URL	Log File	Name of Log file (pdf) Example: **B-1.pdf**	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. Example: **BA-0068_SEDGS_0_2013101020131010_PVB0002_CoreBoring.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. Example: **BA-0068_SEDGS_0_2013101020131010_PVB0002_CoreBoring.html**	Text (200)	UNKNOWN
DATA_ID	Dataset ID	Dataset ID used to track deliverables. Use element 5 of the File Naming Convention for Data ID. Example: **PVB0002**	Text (10)	UNKNOWN
COMMENTS	Comments	Special comments pertaining to a specific GIS record.	Text (250)	<NULL>

Table 2: Core Boring Methods

Core Boring Methods *(Examples)*	***Description***
Cone Penetrometer (CPT)	List this method if the entire core log was developed using a cone penetrometer. Note: if a CPT sample is one of multiple different types of sampling devices used to develop a core log, the equipment type should be listed as Geotechnical Boring.
Standard Penetrometer (SPT)	List this method if the core log was developed using a standard penetrometer.
Geotechnical Boring	List this blanket method for inland drilling/sampling equipment types (i.e., auger, dry auger, hand auger, rotary wash, Shelby tube, split spoon, etc….) and core borings developed using multiple sampling devices.
Push Core	List this method for cores collected using a push corer.
Gravity Core	List this method for cores collected using a gravity corer.
Piston Core	List this method for cores collected using a piston corer.
Vibracore	List this method for cores collected using a vibracorer.
Jet Probe	List this method for core logs developed using jet probe survey and sampling methods.

Table 3: Grab Sample Attributes

Field Name	Alias	Description	Specific GIS Data Type	Unknown Data Values
PROGRAM	Program	Funding 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_COLL	Date Collected	Date collected (YYYYMMDD).	Text (10)	99999999
SAMPLE_ID	Sample ID	Grab Sample identifier.	Text (50)	UNKNOWN
ENVIRONMENT	Environment	Environment where sample was collected (see environment table below)	Text (20)	UNKNOWN
X	X Coordinate (m)	Easting (X coordinate) value in meters (UTM).	Double (10,2)	-9999
Y	Y Coordinate (m)	Northing (Y coordinate) value in meters (UTM).	Double (10,2)	-9999
Z_FT	Elevation (ft)	Elevation of seafloor/mudline where sample was collected (feet, NAVD 88).	Double (10,2)	-9999
P_SAND	Grab Sample Percentage (%) of Sand	Percent of grab sample that will pass a No. 4 (4.75mm sieve) and subsequent sieves and be retained on a No. 230 (0.0625mm) sieve.	Double (5,6)	-9999
D10	D10 (mm)	The portion of particles with diameters (mm) smaller than this value is 10%	Double (4,3)	-9999
D50	D50 (mm)	The portions of particles with diameters (mm) smaller and larger than this value are 50%. Also known as the median diameter.	Double (4,3)	-9999
D90	D90 (mm)	The portion of particles with diameters (mm) below this value is 90%.	Double (4,3)	-9999
MGS	Mean Grain Size (mm)	Mean grain size (mm)	Double (4,3)	-9999
CONTRACTOR	Contractor	Name of contractor that collected the data.	Text (100)	UNKNOWN
ORG	Organization	Organization that ordered the work.	Text (100)	UNKNOWN
REPORT_URL	Report	Name of report (pdf) Example: **BA-0068 Geotechnical Report.pdf**	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. Example: **BA-0068_SEDGS_0_2013101020131010_PVB0002_GrabSample.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. Example: **BA-0068_SEDGS_0_2013101020131010_PVB0002_GrabSample.html**	Text (200)	UNKNOWN
DATA_ID	Dataset ID	Dataset ID used to track deliverables. Use element 5 of the File Naming Convention for Data ID. Example: **PVB0002**	Text (10)	UNKNOWN
COMMENTS	Comments	Special comments pertaining to a specific GIS record.	Text (250)	<NULL>

File Naming Convention elements are separated by underscores as follows:

Element 1 Project: BA-0068 (Grand Liard Marsh and Ridge Restoration CPRA Project ID)
Element 2 Data Type Code: SEDGS (Sediment Sample/Grain Size data)
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 Required: Must use CoreBoring or GrabSample to distinguish SDGS data package

Data package deliverable folder name (Core Boring Example):
BA-0068_SEDGS_0_2013101020131010_PVB0002_CoreBoring

Data package deliverable folder name (Grab Sample Example):

BA-0068_SEDGS_0_2013101020131010_PVB0002_GrabSample

Table 4: Environment Classifications

Environment Classifications	***Description***
Terrestrial	Sediment samples located on land at the date of collection. These samples are typically collected for geotechnical purposes and are not meant to inform sediment search investigations.
Riverine	Sediment samples currently located within the Mississippi River. Note: samples collected in other rivers should be classified as coastal.
Coastal	Sediment samples collected within submerged regions in the LA coastal zone at the date of collection. These coastal environments include gulf, rivers, bays, estuaries, lakes, and other water features within the LA coastal zone.
Offshore	Sediment samples collected outside the state boundaries of the LA coastal zone (i.e., in federal and international waters of the open gulf).