

## Electronic Data Delivery (EDD) Guidelines

# Magnetic Anomaly Data Requirements

This document contains instructions for data delivery of **magnetic anomaly survey 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 magnetic anomaly locations with associated attribution,
2. metadata documents in \*.html and \*.xml format, and
3. optionally, other supporting documents such as magnetic anomaly maps, reports, etc.

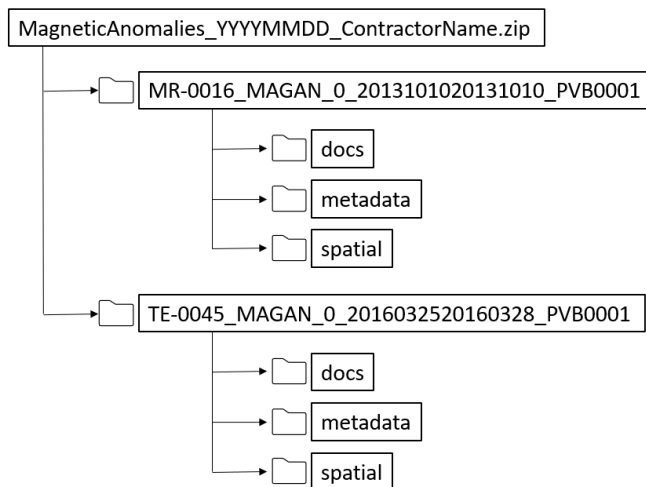
All delivered spatial data must be provided in the Horizontal Coordinate System: UTM NAD83 Zone 15 (meters) and the Vertical Datum: NAVD88 (feet). Delivered files will be compressed into a single \*.zip file named MagneticAnomalies\_YYYYMMDD.zip, where 'YYYYMMDD' is the date the data package was delivered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

Data deliverables for magnetic anomaly survey 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: Any associated file(s) that are not metadata, nor spatial data. Examples include magnetic anomaly maps, reports and/or the actual magnetic anomaly images. The name of the file should be recorded in the DATAURL field of the shapefile in the row of the feature(s) associated with the file. Any file in this folder must adhere to one of the following criteria:
  - i. a \*.pdf file, or

- ii. a \*.jpg file, or
  - iii. a \*.zip file that contains one or more files and/or file type combinations. Use this option if a file is not a \*.pdf, nor a \*.jpg even if it is a single file.
- 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, maps or images) to which each magnetic anomaly point will “link.”
- c. “**spatial**” folder: Vector locations as a GIS point layer using the Esri shapefile format following the CPRA shapefile template for magnetic anomaly data using the geometry and attribution information below and, named using File Naming Convention.
- i. Attribute Specification, Table: Magnetic Anomalies (*also provided in Table 1 below*)
  - ii. GIS Shapefile Template

**List of required attributes for each POINT included in a data deliverable.**

(From – Attribute Specifications, Table: Magnetic Anomaly Points)

NOTE: The following special characters are NOT allowed within any elements: #, <, >, \$, +, %, !, ` , &, \*, ' , |, {, }, ?, “, =, /, ;, \, ,, @, blank spaces or commas.

Table 1: Attribute Specifications

Field Name	Alias	Description	Specific GIS Data Type	Unknown Data Values
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_COLL	Date Collected	Date collected (YYYYMMDD).	Text (10)	99999999
TARGET_ID	Target ID	Target identifier.	Text (50)	UNKNOWN
CLUSTER_ID	Cluster ID	Cluster identifier.	Text (50)	UNKNOWN
SIGNAL_STR	Signal Strength (gam)	Peak gamma (gam) height.	Double (10,3)	-9999
SIG_TYPE	Signal Type	Signal characteristics (multi component, dipolar, monopolar, negative monopolar, or positive monopolar).	Text (20)	UNKNOWN
DURATION	Duration (ft)	Length of the duration of the anomaly signal (measured in feet).	Double (10,0)	-9999
SIG	Culturally Significant	Potentially culturally significant as determined by a qualified marine archaeologist (yes/no).	Text (7)	UNKNOWN
BUFFER	Buffer (ft)	Recommended buffer (radius measured in feet).	Double (8,0)	-9999
X	X Coordinate (m)	Easting (X coordinate) value in meters.	Double (10,2)	-9999
Y	Y Coordinate (m)	Northing (Y coordinate) value in meters.	Double (10,2)	-9999
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. Individual portable document format (pdf) or JPG files, such as a magnetic anomaly survey report, 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. Example: <b>MR-0016_MAGAN_0_2013101020131010_PVB0002.xml</b>	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: <b>MR-0016_MAGAN_0_2013101020131010_PVB0002.html</b>	Text (200)	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: MR-0016 (Mississippi River Hydrodynamic and Delta Management Study CPRA Project ID)

**Element 2** Data Type Code: MAGAN (Magnetic Anomalies)

**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\_MAGAN\_0\_2013101020131010\_PVB0002***