

FWRMC Metadata Element List

- “Straw-man” proposal drafted and distributed to workgroup participants on 11/2/2012
- Comments compiled in the following slides for discussion

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
UNIQUE_STATION_ID	Y	Primary key identifier for stations within the Monitoring Catalog database. Automatically generated by database.	VARCHAR2	N	20

Comments:

none

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
ORGANIZATION_NAME	Y	Organization overseeing monitoring project collecting information at the station.	VARCHAR2	Y	100

Comments:

- Increase data size.....proposed change to 250

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
PROJECT_NAME	Y	Monitoring project collecting information at the station.	VARCHAR2	N	100

Comments:

- Increase data size.....proposed change to 250
 - Allow multiple project names for each station.
 - Is this meant to be the “project” the sites are associated with or the “program” that performs the data collection?
- (answer) This is meant to be the “project” sites are associated with. There was a request during a previous meeting to eliminate “program” from the list of metadata elements.

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
PROJECT_URL	N	Address (URL) for a web page describing the project.	VARCHAR2	N	500

Comments:

- Low priority

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
PROJECT_DESIGN_METHODODOLOGY	Y	Strategy to meet the goals and objectives of the project. Domain: Deterministic Probabilistic	VARCHAR2	Y	25

Comments:

- Low priority
- Is it necessary for this to be a required field?

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
PROJECT_ABSTRACT	Y	Brief summary of the project.	VARCHAR2	N	250

Comments:

- Increase data size.....proposed change to 4000
- Low priority
- Are both the “Project_Abstract” and “Project_Purpose” necessary? What different information is expected to be captured between these two columns?
.....(answer) These are both required per the DEP / FGDC guidelines. Abstract provides a brief summary of the project, while purpose just indicates the reason for information collection (e.g. baseline data, benchmark, event specific, experimental, regulatory, seasonal, trend, etc)

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
PROJECT_PURPOSE	Y	Reason for information collection.	VARCHAR2	N	250

Comments:

- Increase data size.....proposed change to 4000

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
PROJECT_DATA_QUALITY_OBJECTIVES	Y	Conveys documented data quality objectives or provides link to where they are available.	VARCHAR2	N	250

Comments:

- Increase data size.....proposed change to 4000
- Is it necessary for this to be a required field?
- Is this referencing a true DQO doc, or is this just to let people know whether there is a DQO available?

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
STATION_NAME	Y	Full name of the site or station.	VARCHAR2	N	100

Comments:

- Increase data size.....proposed change to 250

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
STATION_ID	N	Code or identifier used as the station identifier within the data provider's internal database.	VARCHAR2	N	100

Comments:

- Increase data size.....proposed change to 250
- Required = Y

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
STATION_DESCRIPTION	N	Description of the site or station.	VARCHAR2	N	250

Comments:

- Increase data size.....proposed change to 500
- Required = Y
- Can you give an example as to the type of station description this is envisioned to capture?

....(answer) This element was taken out of the Southeast Coastal Water Quality Monitoring Metadata Project's list. Example:

STATION_NAME = "gtmfmwq"

STATION_DESCRIPTION = "Fort Matanzas water quality station"

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
STATION_URL	N	Address (URL) for a web page describing the station.	VARCHAR2	N	250

Comments:

- Increase data size.....proposed change to 500
- Required = Y
- What is this envisioned to capture i.e. something like the IWRM and TVN webpages?
.....(answer) For example, USGS stations each have their own websites with information about the station and near real-time data.
(e.g. http://waterdata.usgs.gov/nwis/inventory/?site_no=02234600&agency_cd=USGS&)

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
LATITUDE	Y	The decimal degree latitude.	FLOAT	N	12,6

Comments:

- Is it necessary to require a specific format here, or can the Water Atlas perform necessary conversions?

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
LONGITUDE	Y	The decimal degree longitude.	FLOAT	N	12,6

Comments:

- Is it necessary to require a specific format here, or can the Water Atlas perform necessary conversions?

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
XY_DATUM	Y	The horizontal reference for measuring locations on the Earth's surface. Domain: CAC – Cape Canaveral HARN – High Accuracy Reference Network HPGN – High Precision GIS Network / High Precision Geodetic Reference NAD27 – North American Datum of 1927 NAD83 – North American Datum of 1983 WGS84 – World Geodetic Survey of 1984	VARCHAR2	Y	10

Comments:
none

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
LOCATION_COLLECTION_METHOD	Y	The method or mechanism used to derive the location measurements. Domain: ADDM – Address Matching AGPS – Autonomous GPS CALC – Calculated by GIS Software CSUR – Cadastral Survey DGPS – Differentially Corrected GPS DMAP – Digital Map Interpolation DPHO – Digital Aerial Photography With Ground Control GGPS – Geodetic Quality GPS LORN – LORAN-C Navigational Device MMAP – Manual Map Interpolation MPHO – Manual Aerial Photography With Ground Control OTHR – A Method Not Listed SATI – Satellite Imagery With Ground Control WGPS – GPS with Wide-Area Augmentation Service Correction UNKN – Unknown Method ZIP2 – ZIP Code + 2 Segment Centroid ZIP4 – ZIP Code + 4 Segment Centroid ZIPC – Zip Code Centroid	VARCHAR2	Y	4

Comments:

none

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
LOCATION_DESCRIPTION	N	Additional location description information	VARCHAR2	N	250

Comments:

- Increase data size.....proposed change to 500
- Low priority

NEW ELEMENT

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
COUNTY	Y	The name of the FL county station is located in.	VARCHAR2	Y	100

Comments:

- New element

NEW ELEMENT

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
DRAINAGE_BASIN	Y	The name of the 8-digit USGS HUC station is located in.	VARCHAR2	Y	100

Comments:

- New Element

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
WATERBODY_NAME	N	The name of the waterbody station is located in.	VARCHAR2	N	100

Comments:

- Increase data size.....proposed change to 250
- Required = Y
- For groundwater wells, indicate aquifer system.
- Are there a list of acceptable standardized waterbody names that should be used here? If well is listed in WATERBODY_TYPE than where would one populate the aquifer the well taps? Should there be another column that is for groundwater such as, “Hydrogeology of Open Interval”?
- Rename element to “WATER_RESOURCE_NAME”?

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
WATERBODY_TYPE	Y	The type of waterbody station is located in. Domain: - River / Stream - Canal - Lake - Wetland - Reservoir - Riverine Impoundment - Estuary - Tidal Fresh - Tidal Brackish - Ocean - Bay - Well - Spring	VARCHAR2	Y	25

Comments:

- Rename to “STATION_TYPE”
- Reword definition to: “The type of stations data collection occurs at/in.”
- Expand domain to include full list from USGS?
http://help.waterdata.usgs.gov/code/site_tp_query?fmt=html

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
START_DATE	Y	Date monitoring activity started at the station.	DATE	N	

Comments:

- Is it necessary for this to be a required field?
- Is the monitoring activity relative to the start date of the data collection in relation to the project information as filled in above or is it to be associated with the start date of data collection in relation to the site itself?

METADATA ELEMENT NAME	REQUIRED (Y/N)	DEFINITION	DATA TYPE	DOMAIN LIMITED (Y/N)	DATA SIZE
END_DATE	N	Date the monitoring activity ended or is anticipated to end at the station (use 99/99/9999 for ongoing monitoring with no anticipated end date)	DATE	N	

Comments:

- Required = Y
- Is the monitoring activity relative to the end date of the data collection in relation to the project information as filled in above or is it to be associated with the end date of data collection in relation to the site itself?