New Locational Data
In AQS

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New Locational Data

§ Background/History

§ Process/Changes

§ Implementation

§ Demonstration

Background/History

§ AQS Requires Site Location
- Latitude/Longitude or
- UTM Coordinates

§ EPA Locational Data Policy

§ AQS Issues to Address
- Conversion Problem
- Site Registration

§ Tribal Data Modification

Process/Changes

§ Goal to correct coordinate issue

- Change conversion process
  - Use Horizontal Datum
- Uniform set of coordinates
  - Support GIS activities
- Retain reported coordinates
- Simplify site creation
  - Reduce data input by users

Process/Changes

§ Proposed Solution

- Oracle Spatial Solution – Envirofacts
- Single Horizontal Datum – WGS84 & Latitude/Longitude only
- Store user reported coordinates
- Populate other data fields as possible
  - Derived from available spatial layers

Process/Changes

§ Define Requirements

§ Internal Approval
- AQS Team
- Regional Office contacts

§ User Approval
- User Agency Contacts

Implementation

§ Stopped Incorrect Conversion

§ Web Service Developed

- Derives standard coordinates
- Derives codes for State, County, City, Census Track, Census Block, Congressional District, Urbanized Area, and ZIP

Implementation

§ Load Process Changes
  - Transparent to users
  - Mandatory derived fields can be left blank

§ New Maintain Site Screens
  - Example screens
  - Descriptions added for browse
  - Derived fields locked from update

Example - Basic Site Data

Example – Additional Site Data

Example – Agency Roles

Implementation

§ Initial Population Assumptions
- Sites with "Unknown" Datum becomes NAD27 if established before 1/1/1990
- 75% of sites will be processed
- 141 sites with blank UTM's

§ Test Conversion after in production

§ Develop/supply cook book process for agencies