# 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

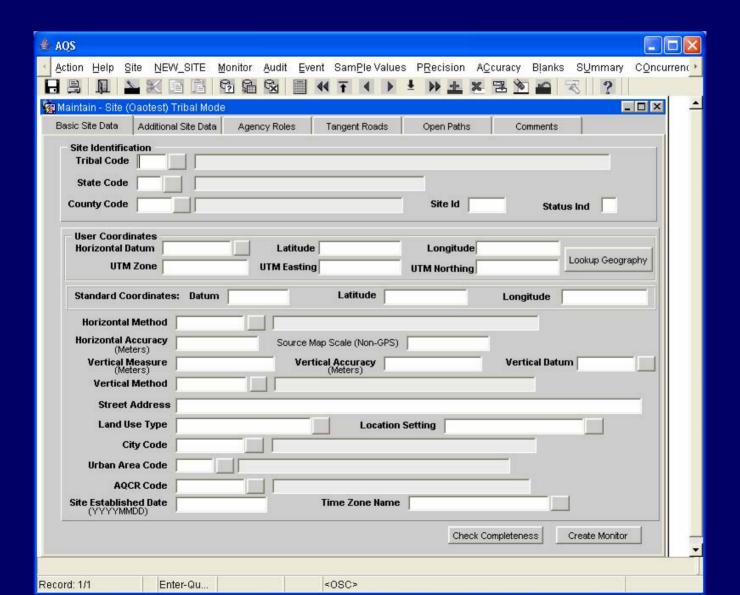
- Derives standard coordinates
- Derives codes for State, County, City, Census Track, Census Block, Congressional District, Urbanized Area, and ZIP

## Implementation

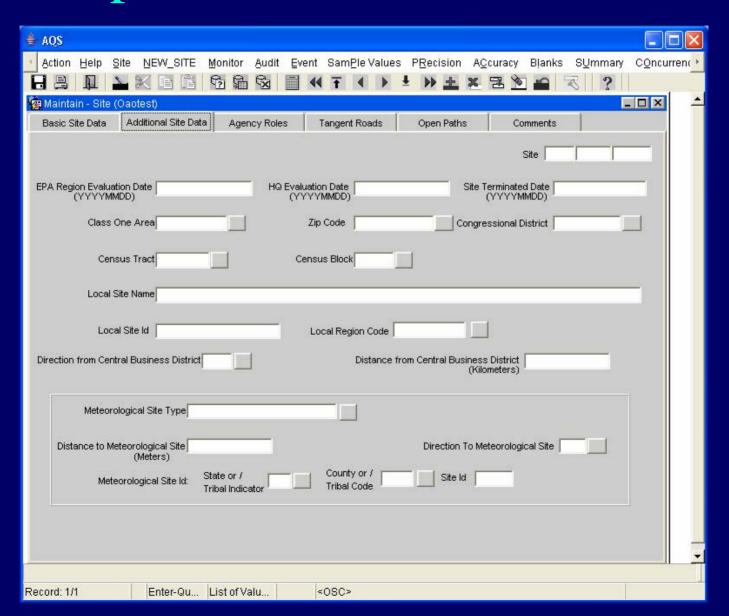
- § Load Process Changes
  - Transparent to users
  - Mandatory derived fields can be left blank

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

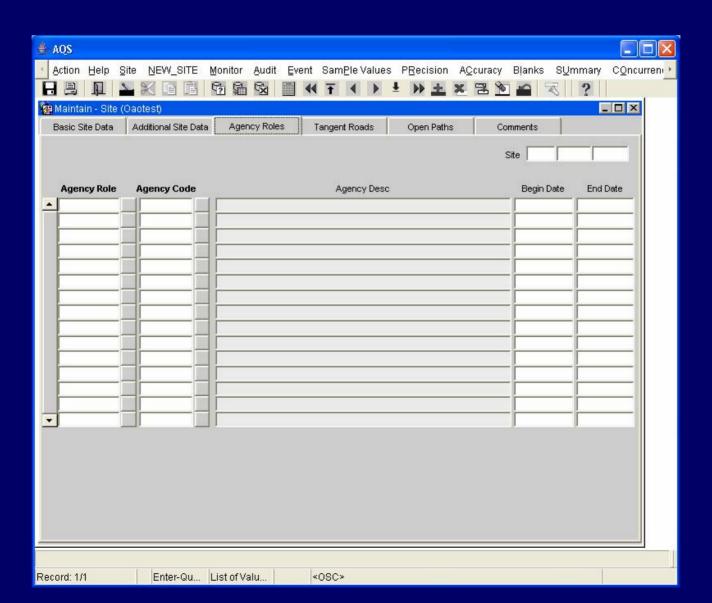
# Example - Basic Site Data



# 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