

# **Quality Assurance Update**

**Region 9 QA Office**

# Quality Policy

**Environmental data operations are governed by two policies:**

- **CIO 2105 (formerly EPA Order 5360.1)**  
*This is what is currently used by everyone*
- **CIO 2106**  
*Applicable to Agency products and services*

**These policies are supported by Standards and Guidance to make them usable by everyone**

# Standards and Guidance

## Standards are mandatory

*These stipulate what must be done – they are essentially the required aspects of data quality*

## Guidance is advisory

*It informs and suggests ways in which the Standards can be met. It is not mandatory and is intended to be helpful to everyone.*



# Two Standards

## ***Quality Standards for Environmental Data Collection, Production, and Use:***

- Internal - ***CIO Standard 2106-S-01***
- External - ***CIO Standard 2106-S-02***

**They are similar, but tailored to meet the needs of specific users, and to cover the same technical areas.**

***CIO Standard 2106-S-02 applies to tribes***



- **External Standard replaces**
  - QA/R-2 for Quality Management Plans (QMPs)
  - QA/R-5 for Quality Assurance Project Plans (QAPPs)
- **Organizations still need to develop QMPs and QAPPs**
- **Plans still require approval before environmental data are collected, produced, or used**

# Two Guidance Documents

## Guidance Documents to be used with the Standards:

- *CIO Guidance 2106-G-02 QMP*
- *CIO Guidance 2106-G-05 QAPP*

These address the QA requirements of the new standards, replace previous related guidance documents, and provide greater clarity with examples for relevant QA activities

# **Five Year Policy**

- **Region 9 Policy is QA Plans should be revisited every five years**
  - **Grant Condition**
  - **Negotiated Work Plan**
  - **Discussions with EPA Project Officer**

# Revised Plan Contents

- **Most of plan unchanged**
- **Changes in existing effort**
  - **Staff**
  - **Analytes**
  - **Sampling locations**
  - **Data quality objectives or action limits**
- **Other Expectations**
  - **Results of past efforts**
  - **Rationale for changes**



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# Difference from existing

- A more comprehensive consideration of the use of data from existing sources
- An improved section on evaluating models
- More emphasis on how to evaluate and resolve differences between what was planned for, and what was attained
- A succinct list of QMP requirements (Annex A)
- QAPPs described using *Plan-Do-Check-Act (P-D-C-A)*
- A succinct list of QAPP requirements (Annex B)

# Coverage of the QAPP Guidance

**There are 4 chapters:**

- 1. Introduction**
- 2. QAPP for Collection of Data by Direct Measurement**
- 3. QAPP for Evaluating Existing Data**
- 4. QAPP for Development, Modification and Use Models**

**...and 5 appendices:**

- A. Checklist of QAPP Elements**
- B. Data Quality Indicators**
- C. Quality Control Samples**
- D. Data Review, Verification, Validation, and Evaluation**
- E. Crosswalks**

# **Difference from existing:**

**The new QAPP Guidance includes everything currently in the old QA/G-5 and adds:**

- **Qualitative comparisons to acceptance criteria**
- **Evaluation of unconventional measurements**
- **Qualitative and quantitative evaluations of usability**
- **Use of existing data**
- **Expanded section on qualitative comparisons**
- **Updated information on modeling**
- **Use of data quality indicators**
- **Use of quality control samples**

**The new QMP Guidance is, new**

# Application

- Policy applies regardless of program (water, air, etc.)
- Policy applies regardless of the type of QA document (QMO, QAPrP, QAPP, SAP)
- Policy applies regardless of organization (tribe, state, nonprofit)
- Policy applies regardless of type of measurement activity