

U.S. EPA - Region 6 Quality Assurance Program



Cheyenne Moore

Regional EJ Quality Assurance Officer Laboratory Services and Applied Science Division





Topics to Review

- EPA Quality Program Mission Statement
- Why QA? EPA Quality Program and Standards
- Program Participants
- EPA Quality Terms
- What's New EPA Quality Standards
- Contact Information



EPA Quality Program Mission

- EPA is committed to the collection, production, evaluation, and use of environmental information of known and documented quality.
- Incorporating quality assurance improves EPA's policy-making and analysis.
- A quality program helps drive reliable, cost-effective, and legally defensible decisions all while preventing unacceptable environmental and human health risks to individuals and communities.



Why QA? EPA Quality Program and Standards



EPA Quality Program

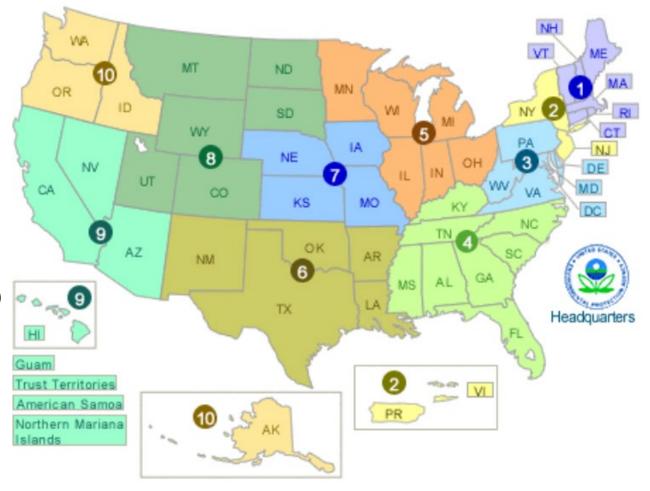
• The primary goal of EPA's Quality Program is to ensure that our environmental information are of known and documented **quantity** and **quality** to support the intended use of the information.

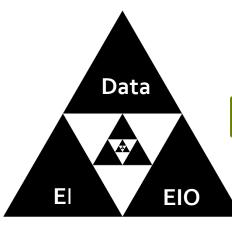
Quality Assurance Standards

- Allows for continuous project improvements
- Identify and resolve program issues
 - Minimizes project setbacks
 - Maximizes funding
 - Ensures program requirements are met (EPA and Non-EPA)

Program Participants

All EPA organizations performing environmental information operations and non-EPA organizations performing environmental information operations on participate in the EPA Agency-wide Quality Program.





EPA Quality Terms

- Environmental Information (EI)- Includes data and information that describe environmental processes or conditions which support EPA's mission of protecting human health and the environment.
- Environmental Information Operations (EIO)- A collective term for work performed to collect, produce, evaluate, or use environmental information, and the design, construction, operation, or application of environmental technology.
- **Data** quantitative or qualitative representation of values, facts, observations, or ideas in a formalized manner capable of being transmitted, processed, stored, analyzed, interpreted, and/or communicated by some process, whether on paper or in electronic form.

What's New: Quality Management Plan (QMP)

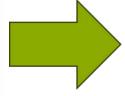
March 2001

- EPA Requirements for Quality Management Plans (EPA QA/R-2)
- Previously awarded grants will continue to use QA/R-2, unless amended activities added

March 2023

- Quality Management Plan Standard
- Applies to all new and supplemental grant awards issued on or after February 17, 2023







What's New: Quality Assurance Project Plan (QAPP)

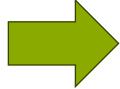
March 2001

- EPA Requirements for Quality
 Assurance Project Plans EPA QA/R-5
- Previously awarded grants will continue to use QA/R-5, unless amended activities added

July 2023

- Quality Assurance Project Plan Standard
- Applies to all new and supplemental grant awards issued on or after August 31, 2023







What's New - Directive Format

March 2001

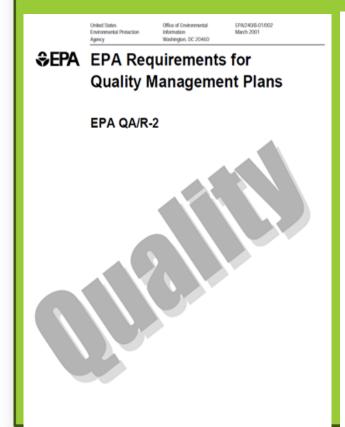


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March 2024





What's New – Directive Content

- No introduction or background section
- No Policy Section
- Table of contents and displaying information in tables/lists is not required

What's New Instructions to EPA and Non-EPA Organizations

Organizations

EPA

EPA Program Offices and Regions shall have one overarching QMP for their organization. This QMP shall be submitted to EPA Office of Mission Support (OMS), Office of Enterprise Information Programs (OEIP), Enterprise Quality Management Division (EQMD) for review and approval by the Chief Information Officer (CIO)...

Non-EPA

When a QMP is required either by regulation, contractual requirement, assistance agreement condition, etc., the QMP shall be submitted for review and approval to the EPA official responsible for the work, who will then follow the approval procedures listed in the sponsoring organization's QMP...

What's New QMP Standard: Tribal Requirements and Information

Section 5. B. QMP Requirements - Tribal Primary Quality
Assurance Organizations (PQAOs) conducting regulatory and/or
informational monitoring shall also consult with the EPA
organization sponsoring the work for additional information on
QMPs supporting 40 CFR Appendix A to Part 58: Quality
Assurance Requirements for Monitors used in Evaluations of
National Ambient Air Quality Standards.

• 8. RELATED INFORMATION - 40 CFR Part 49: Tribal Authority Rule

What's New QMP Standard: Section 5.B.1 Title Page

- Functionally eliminated submittal of documents "equivalent to" Quality Management Plans.
- Non-EPA organizations shall include "Quality Management Plan" in the document title.

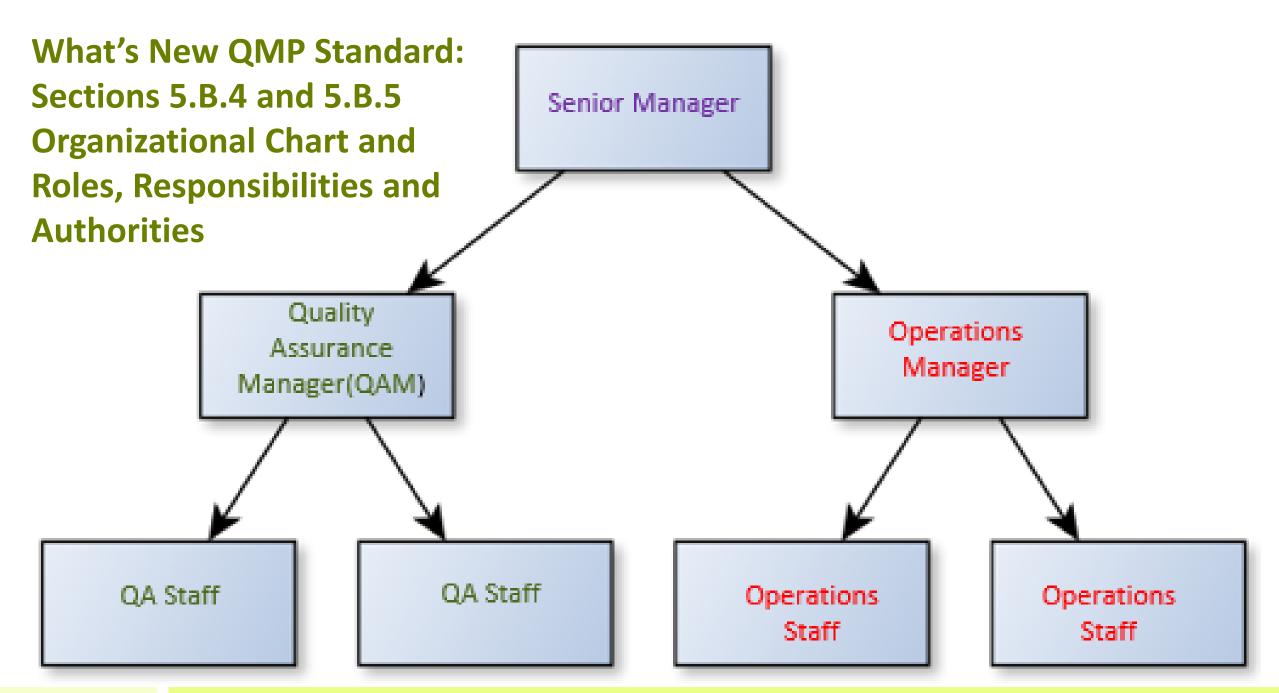


What's New QMP Standard: Section 5.B.3 Quality Statement



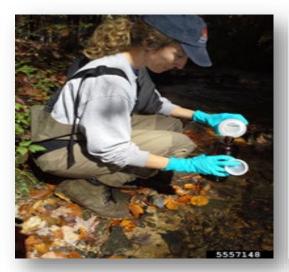
The statement shall include at a minimum:

- The importance of quality in its environmental information operations
- The general objectives and goals of the QMP
- A description of management and staff responsibilities for implementing the QMP
- The organization's commitment to quality management principles, practices, and resource allocation for the organization's QA Program



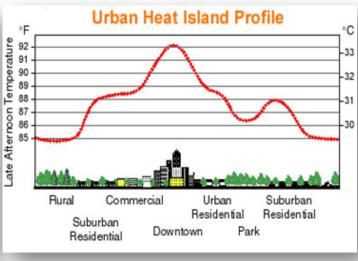
What's New QMP Standard: Section 5.B.8 QA Field Activities

- **Field Activities** Activities conducted that require the collection of observations, samples, or data in support of EPA's mission.
- Examples:









Sample Collection

Field Parameter Measurements

Observation

Data Collection

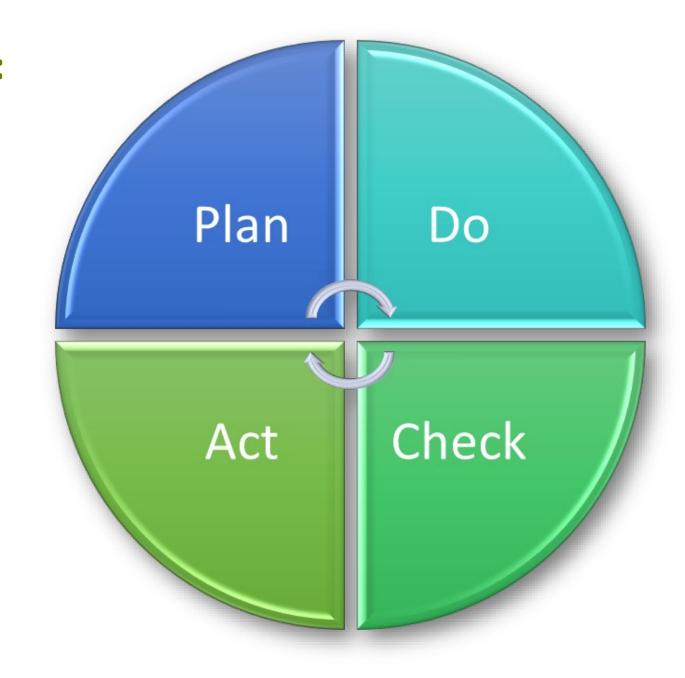
What's New QMP Standard: Sections 5.B.11 and 5.B.12 Organization Competence and Personnel Training





What's New QMP Standard: Section 5.B.15 Plan, Do, Check, Act (PDCA) Quality Model

An iterative four-step approach for managing, planning, implementing, and administering continual improvement over the lifecycle of environmental information operations.



What's New QMP Standard: Section 5.B.16 Dispute Resolution Process





What's New QMP Standard: Section 5.B.18 Data Review, Validation and Verification, and Data Useability Reporting



What's New QAPP Standard: ANSI E4 linkages

ANSI E4 linkages covered in QAPP Standard:

- 1. PURPOSE
- 7. RELATED INFORMATION
- 8. DEFINITIONS

Previously covered in QA/R-5:

- Chapter 1.2 QA PROJECT PLANS
- THE EPA QUALITY SYSTEM
- ANSI/ASQC E4-1994



What's New QAPP Standard: Equivalent Sections

QA/R-5

1.3	The Graded Approach and the EPA Quality System
1.4	Intended Audience and 2.3 Applicability
1.5	Period of Applicability
1.6	Additional Resources
10.	Directive(s) Superseded Group Elements (a,b,c,d)







3. Audience



5.a.5. Period of Applicability of an Approved QAPP



7. Related Information



1.7 Supersession Group Elements

What's New QAPP Standard: Content Separation

QA/R-5

QAPP Standard

2.4 General Content and Detail Requirements



5.A.1. General Content AND

5.A.2. Level Of Detail: The Graded Approach And QAPPs

Quality Assurance ProjectPlan Preparation andApproval



5.A.3. QAPP Preparation Responsibility **AND**

5.A.4. QAPP Submittal and Approval

What's New QAPP Standard: Combined Sections

QA/R-5

QAPP Standard

- 2.6 QUALITY ASSURANCE PROJECT PLAN IMPLEMENTATION
- 3.1 CONTENT REQUIREMENTS

CHAPTER 3:

QAPP ELEMENTS





5.B. QAPP Requirements

Contact Information

Region 6 Quality Staff Information

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Vision

Mission

Purpose

Contact Us About the Quality Program

quality@epa.gov

Managing the Quality of Environmental Data at EPA Region 6

https://www.epa.gov/quality/managing-quality-environmental-data-epa-region-6

R6 QA Training for Grantees and Other QA Personnel

https://www.epa.gov/quality/r6-qa-training-grantees-and-other-qa-personnel