



*Welcome to the 11th DoD
Environmental Monitoring and Data
Quality Workshop*

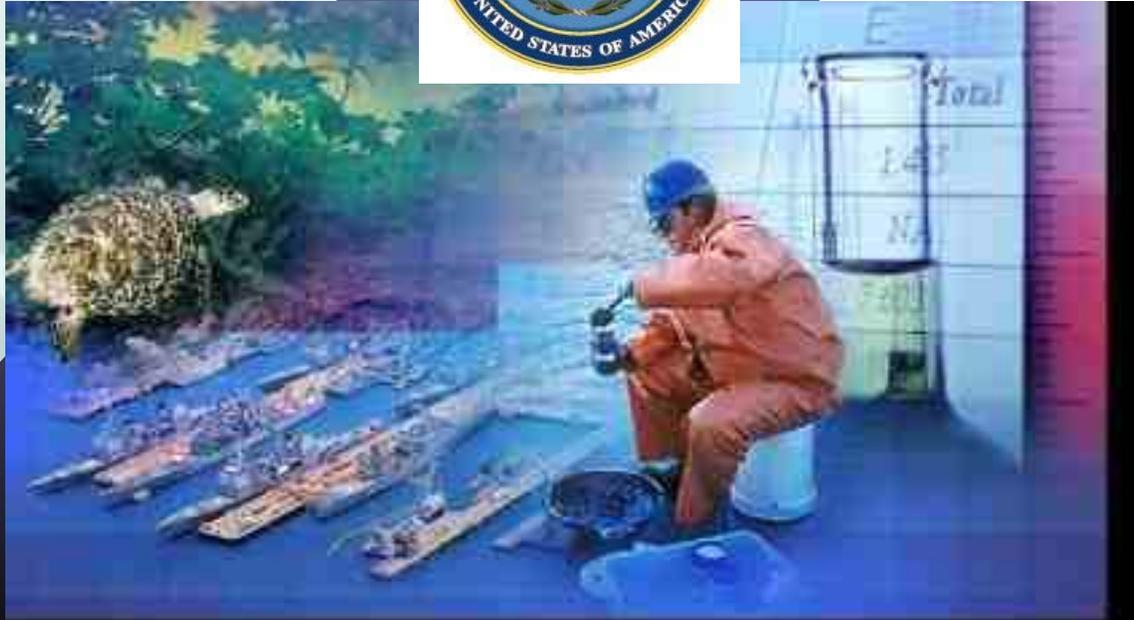
April 2015

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***Chair, DoD Environmental Data
Quality Workgroup***

Improving Environmental Data Quality

... Because the Right Decisions Require Quality Data



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www.denix.osd.mil/edqw/

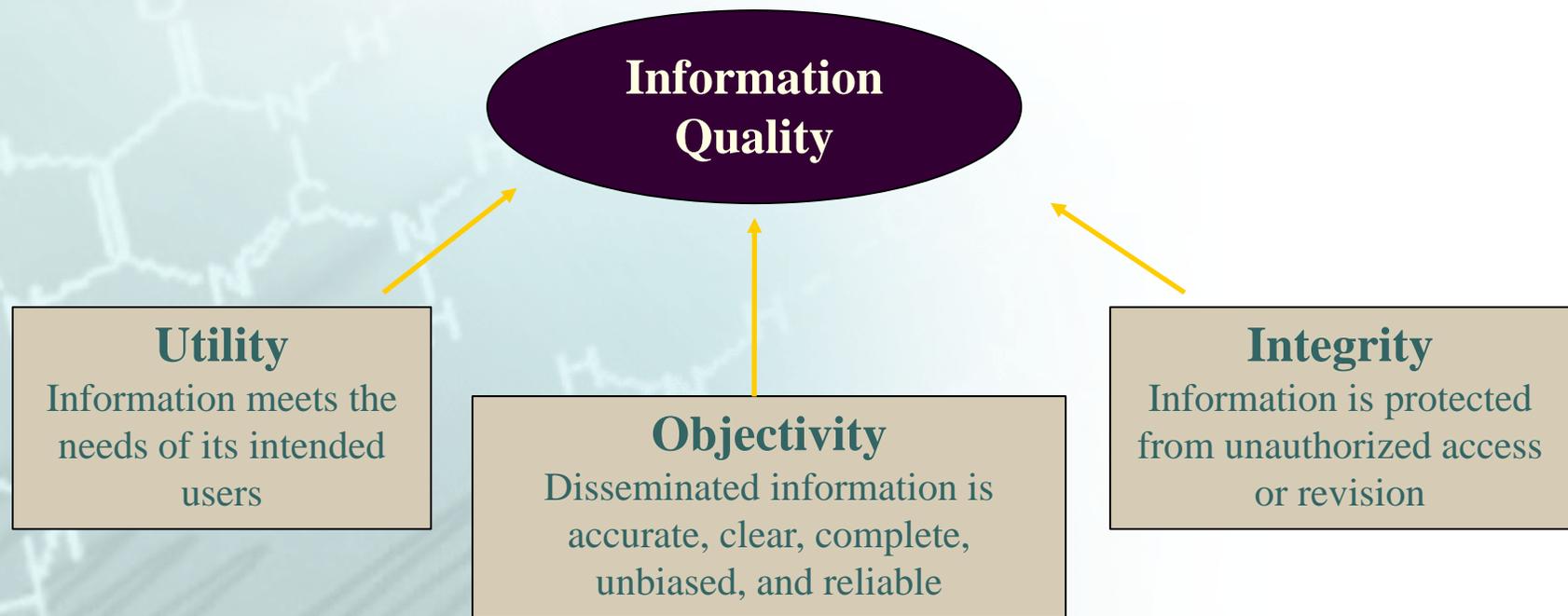
... Because the *Right Decisions* Require Quality Data

- Right Decisions
 - Reduce risks to human health and the environment
 - Compliance with environmental regulations
 - Correctly identifying whether a site is contaminated
 - Regulatory Limits vs Concentrations measured
 - Appropriate Sampling Design and Collection
 - Ensure ongoing operational readiness

... Because the Right Decisions Require Quality Data

- What is “Quality data”?
 - Data of known and documented quality appropriate for its intended use
 - How do you determine/ensure the quality of your data?
 - DoD ELAP
 - Procurement Policy
 - What do you use to document the quality of your data?
How do you know the intended use?
 - Quality Assurance Project Plans

Ensuring Quality of Information Disseminated to the Public by the Department of Defense February 2003



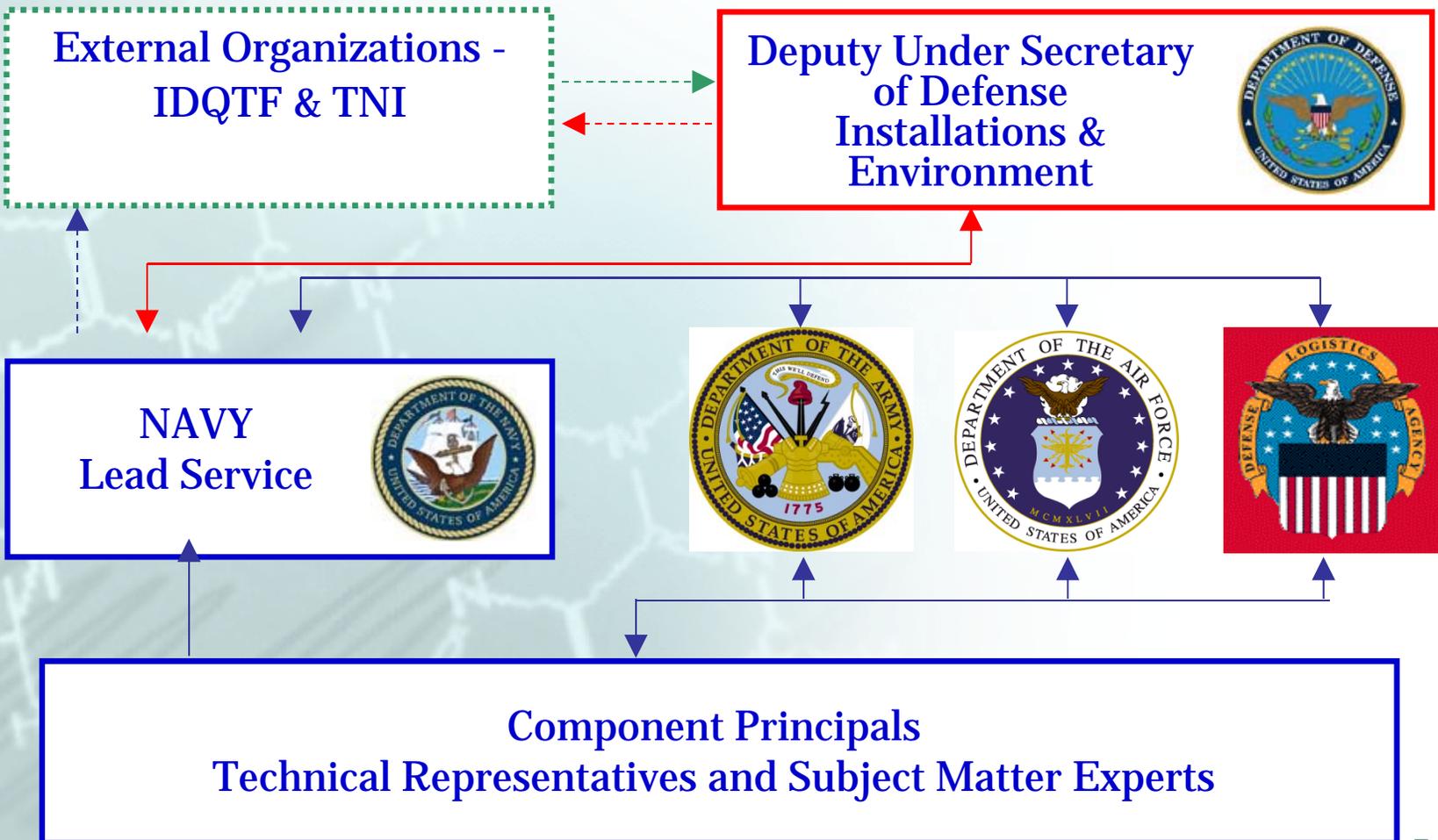
Data must be *“capable of being substantially reproduced”*

Environmental Data Quality Workgroup

Charter Issued 01 October 2010

- Develop and recommend policy related to sampling, testing, and quality assurance for environmental programs to eliminate redundancy, streamline programs, improve data quality, and promote data integrity.
- Coordinate the exchange of information among DoD components.
- Develop DoD issuances to implement environmental quality systems and promote cost effective government oversight.
- Implement and provide oversight of the DoD ELAP.

DoD EDQW



Strategy To Achieve Charter Tasking

Identify Industry
and DoD Best
Practices



Save time, reduce program costs,
ensure decisions are based on
sound data

- Implement national and international standards
- Use systematic planning process
- Improve management and contracting practices
- QA/QC policy/guidance
- Improve oversight
- Promote consistency

EDQW Initiatives

- IDQTF
- Procurement Policy
- DoD/DOE QSM
- DoD ELAP
- Advanced Geophysical Classification

Intergovernmental Data Quality Task Force

2013 Charter

- New IDQTF Executive Committee
 - Director, FFRRO
 - EPA/OEI/Quality Staff Director
 - EPA Lead Region QAM for OEI
 - EPA Lead Region QAM for OSWER
- Work collaboratively to address environmental issues of emerging concern at Federal Facilities and promote implementation of consistent and transparent intergovernmental quality systems at Federal facilities, for planning, collecting, and using environmental data of appropriate quality to ensure a scientific basis for environmental decision-making.

IDQTF

UFP-QAPP Systematic Planning Process

- Team-based approach to planning
- Project goal, objectives, questions and issues
- Project schedule, resources, milestones and applicable requirements
- Data collection and analysis process matched to project objectives
- Collection and analysis requirements
- Process for generation, evaluation and assessment of collected data

IDQTF

Optimization of UFP-QAPP Worksheets

- In 2012, the IDQTF completed work on the first revision QAPP Worksheets.
- Consolidated several of the original 37 worksheets into a final product containing 27 “optimized” worksheets.
- The optimized worksheets address all requirements of ANSI/ASQ E4 and EPA G5.
- Formal concurrence on the optimized worksheets among participants on the IDQTF.
- **Signed out by OSD and EPA August 2014**

DoD Procurement Policy

Improving Management & Contracting

- Implements Quality Systems standards through contracting
- Provides contract language templates to use in solicitations and contracts
- Requires DoD QA surveillance and DoD Chemist Involvement
- Specifies prohibited laboratory practices

DoD/DOE Quality Systems Manual for Environmental Laboratories

- Consolidates DoD/DOE requirements
- Implements ISO/IEC 17025:2005
- Implements 2009 TNI Quality Systems Standard
- Basis for DoD ELAP accreditation
- Basis for DOE qualification under the DOE Consolidated Audit Program (DOE CAP)

DoD Environmental Laboratory Accreditation Program (DoD ELAP)



Department of Defense
INSTRUCTION

NUMBER 4715.15
December 11, 2006
Incorporating Change 1, May 10, 2011

USD(AT&L)

SUBJECT: Environmental Quality Systems

References: See Enclosure 1

- (a) Deputy Secretary of Defense Memorandum, "Ensuring the Quality of Information Disseminated to the Public by the Department of Defense," February 10, 2003
- (b) DoD Directive 4715.1E, "Environment, Safety, and Occupational Health," March 19, 2005
- (c) DoD 5025-1-M, "DoD Directives System Procedures," March 2003
- (d) ANSI/ASQ E4-2004, "Quality Systems for Environmental Data and Technology Programs—Requirements with guidance for use"
- (e) ISO/IEC 17025:1999, "General Requirements for the Competence of Testing and Calibration Laboratories," December 1999*
- (f) Federal Register, Volume 67, page 8452, February 15, 2002

1. PURPOSE

This Instruction:

1.1. Establishes and implements policy for establishing environmental quality systems for DoD activities and programs involving the collection, management, and use of environmental data, in accordance with *Deputy Secretary of Defense Memorandum* (References (a)) and *DoD Directive 4715.1E* (Reference (b)).

1.2. Assigns responsibilities for implementing Reference (a) and provides for a DoD Environmental Data Quality Workgroup (EDQW).

1.3. Incorporates and cancels *Assistant Deputy Under Secretary of Defense for Environment, Safety and Occupational Health Memorandum* (Reference (c)) to continue authorization of the DoD Environmental Laboratory Accreditation Program (ELAP).

*Published by the American National Standards Institute, www.ansi.org

*Published by the International Organization for Standardization, www.iso.org

- Effective 1 October 2009
- Objectives:
 - *Promote reciprocity;*
 - *Promote fair and open competition;*
 - *Streamline procurement process;*
 - *Promote the collection of data of known and documented quality, suitable for their intended uses; and*
 - *Allow DoD to focus on project specific reviews*

DoD ELAP

Requirements

- DoD-wide program acceptance
- Applies to collection of *definitive data* for environmental restoration programs
- Laboratory compliance with DoD QSM
- Accreditation performed by AB's
- EDQW perform oversight of program
- Project managers select accredited laboratories

DoD ELAP

Accreditation Bodies

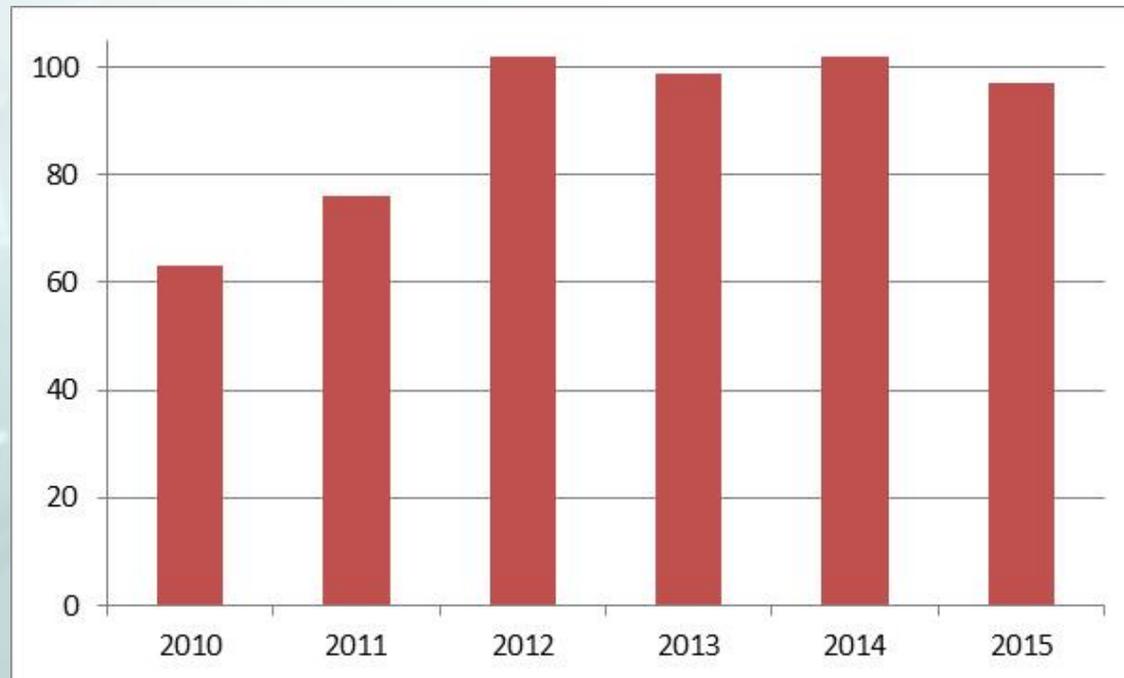
- American Association for Laboratory Accreditation (A2LA)
- ANSI-ASQ National Accreditation Board (ANAB)
- Laboratory Accreditation Bureau (L-A-B)
- Perry Johnson Laboratory Accreditation, Inc. (PJLA)

DoD ELAP – Status

(as of 4/20/15)

- 97 laboratories accredited – down one from January
- All 4 ABs performing assessments to QSM Version 5.0.
- All labs to be accredited to QSM Version 5.0 by 1/1/2016.

DoD ELAP – Status



- Continuing to see a shift in market
- Scopes continuing to be modified based on market

DoD ELAP – Status

- EDQW continues to monitor DoD ELAP:
 - Monitoring scopes and load sheets for consistency.
 - Labs are being removed from DENIX once they expire, withdraw, or are suspended from DoD ELAP.
 - Monitoring implementation of QSM Version 5.0.
 - Oversight Visits.
 - Teleconferences every other month.

DoD ELAP Distribution

Accredited

State	Labs	State	Labs	State/Province	Labs
Alaska	1	Maryland	1	Oregon	1
Arkansas	1	Massachusetts	3	Pennsylvania	3
California	15	Michigan	6	Rhode Island	2
Colorado	2	Minnesota	1	South Carolina	2
Delaware	1	Missouri	3	Tennessee	5
Florida	8	Nevada	1	Texas	6
Georgia	2	New Hampshire	2	Utah	2
Illinois	1	New Jersey	2	Vermont	1
Indiana	1	New York	1	Washington	7
Kansas	1	North Carolina	4	Wisconsin	3
Louisiana	2	Ohio	3	Italy	2
Maine	1	Oklahoma	1	Canada	1

DoD ELAP Resources

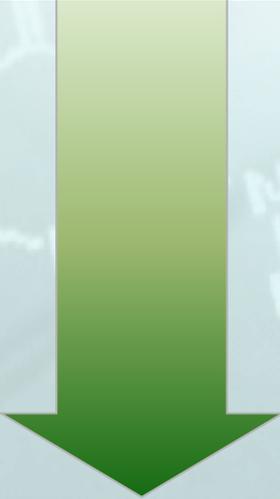
- DoD ELAP Fact Sheet
- DoD/DOE QSM Version 5.0
- Detection and Quantitation Fact Sheet
- DoD ELAP & QSM FAQ's
 - QSM Version 5.0 FAQ's
- Policy Memos
- Published on website:
 - <https://www.denix.osd.mil/portal/page/portal/EDQW>

Advance Geophysical Classification

- Develop policy and guidelines for conducting advanced classification projects based on the Uniform Federal Policy documents.
- Develop recommendations and criteria for qualifying and assessing organizations performing advanced classification projects based on national and international standards.

Actions To Achieve Charter Tasking

Identify Industry
and DoD Best
Practices



- DoD QSM - Implement national and international standards
- UFP QAPP - Use systematic planning process
- Procurement Policy - Improve management and contracting practices
- DoD ELAP - Improve oversight
- DoD ELAP - Promote consistency

Save time, reduce program costs,
ensure decisions are based on
sound data

Tuesday 28 April

Welcome

Opening Plenary

Session 1: Emerging Contaminants

Session 2: Methods Updates

Wednesday 29 April

Session 3: Statistics

Session 4: Method Innovations

Session 5: Sampling

Air Force Component Meeting

Thursday 30 April

Session 6: Radiochemistry

Session 7: Data Management

Session 8: DoD ELAP

Accreditation Body Procedures

DoD ELAP Open Session