QUALITY ASSURANCE SEEDING

Prepared by Cheryl Webster For M2S2 Webinar 15 August 2018

"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."





QUALITY ASSURANCE SEEDING OVERVIEW

- Quality Management –
 Quality Control (QC) vs. Quality Assurance (QA)
- QA Seeding
- QA Template
- Multiple Award Task Order Contract (MATOC) Third-Party Seeding, Range Support Center





QC and QA - Aspects of Quality Management

Quality Management System

- Conformance to requirements
- Goal customer satisfaction

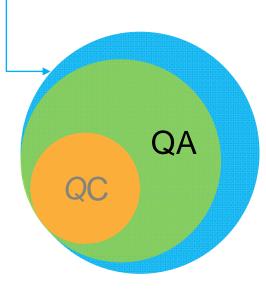
Quality Control (QC) -

Focused on achieving requirements

Conduct inspections

Quality Assurance (QA) –

Focused on the process
Provides confidence









WHAT IS SEEDING?

Emplacement of

- Industry Standard Objects (ISOs)
- Inert Munitions

Throughout an area to be surveyed.

Applied to:

- Surface
- Subsurface









QC and QA SEEDING

QC Seeds -

Placed by Contractor

Tests:

- Instrument function
- Limits of thresholds
- Coverage

QA Seeds -

Placed by Government or 3rd Party Contractors

Tests:

Process







QC vs QA SEEDS

QC Seed -

- Blind to UXO teams, data collectors, and data processors
- Known to Contractor's QC manager
- Challenging locations

QA Seed -

- Blind to UXO teams, data collectors, data processors, and QC personnel
- Known only by Government or 3rd party
- Less challenging placement







CONFORMANCE TO REQUIREMENTS

Munitions Response – Quality Assurance Project Plan (MR-QAPP)

- Data Quality Objectives (DQO)
- Measurement Quality Objectives (MQO)
- Measurement Performance Criteria (MPC)







QA SEEDING

Type

Representative of targets on Site

Depth

- Surface
- Subsurface

Distribution

• Throughout area of survey

Number

- Analog sensor
 - o 5-6 seeds/day/operator
- Digital Geophysical Mapping (DGM) or Advanced Geophysical Classification (AGC) sensor
 - o 1-3 seeds/day/instrument







SEED PLACEMENT









QC SEED FAILURE

Nonconformance – Failure to meet conformance requirements

Triggers a Root Cause Analysis (RCA)

Corrective Measures







QA SEED FAILURE









QA SEED TEMPLATE

QA Tool

Quality Assurance Surveillance Plan (QASP)

CLOSE-HOLD INFORMATION – DO NOT DISTRIBUTE

Quality Assurance Seeding Plan Range Support Center

Template



Prepared by

Army Corps of Engineers Sacramento District Lays out seed plan:

- Types
- Depth
- Distribution
- Number







MATOC – THIRD PARTY VALIDATION SEEDING AND AGC DATA COLLECTION AND PROCESSING SUPPORT

DAGCAP Accredited Companies Qualified

- APTIM
- ARCADIS
- BLACK TUSK
- CH2M (Jacobs)
- PARSONS
- TETRATECH
- WESTON
- TPMC-WRT JV

Award March 2018

First Task Order: Camp Fannin

Typical Task Order Examples

- Work Plan, UFP/MR-QAPP, and other Planning Documents Development
- Standard Environmental and/or Geophysical Reports
- Professional Surveying
- Other standard Military Munitions Response Program (MMRP) Document Preparation
- Procurement of Industry Standard Objects (ISO) Seeds
- Geophysical and Geospatial Equipment Rental or Supply
- UXO Technician Support (primarily for anomaly avoidance and escort roles and responsibilities)
- Geophysicist Support
- Intrusive Investigations (primarily as part of QC/QA)
- AGC Data Collection and Processing
- DoD or Site-Specific Target or Interest (TOI) Library Modifications
- Establishment of an Instrument Verification Strip (IVS)





Summary









Cheryl Webster – USACE Sacramento cheryl.l.webster@usace.army.mil 916-557-7504

Photo Credits: C. Cox, M. Hernandez, C. Larson, M. Jones



