



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES
QUALITY ASSURANCE
SURVEILLANCE REPORT

PROJECT NO.: Various Research

REPORT NO.: 93-14

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SURVEILLANCE SCOPE: General Surveillance of Laboratory Activities, with emphasis on Calibration Status, Sample Labeling, and Scientific Notebook Entries

REFERENCE DOCUMENTS: N/A

STARTING DATE: 11/23/93

ENDING DATE: 11/23/93

QA REPRESENTATIVE: R. D. Brient

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: Various

SATISFACTORY FINDINGS: see page 2.

UNSATISFACTORY FINDINGS: see page 2.

NONCONFORMANCE REPORT NO.: none

ATTACHMENTS: none

RECOMMENDATIONS/ACTIONS: Surveillance should be planned to evaluate sample identification and control (TOP-012) in greater detail.

APPROVED:

CENTER DIRECTOR OF QUALITY ASSURANCE

DATE:

11/23/93

DISTRIBUTION:

ORIGINAL - CENTER QA DIRECTOR

ORIGINATOR

PRINCIPAL INVESTIGATORS - R. Manteufel/R.Green, R. Pabalan,

E. Percy, N. Sridhar/G. Cragnolino

ELEMENT MANAGERS -R. Baca, A. Chowdhury, L. McKague, P.

Nair

cc: B. Sagar

SATISFACTORY FINDINGS:

1. CNWRA laboratory facilities in Buildings 57 and 51 were checked to verify that calibration controls were being properly implemented. Measuring and test equipment, primarily balances and various electronic meters, had appropriate calibration labels and recall dates. A few instruments that appeared to be used for quality affecting measurements did not have calibration labels. In the Corrosion Lab, the Keithley 617 Electrometer, s/n 537418, did not have a calibration label, but a valid calibration certificate was on file. The Principle Investigator is arranging to have a label attached.
2. Prepared solutions shelf-life expiration dates were checked. Three containers in the Geochemistry area at or near their expiration date were pulled, and lab personnel were informed. The expiration dates may be extended at the option of the cognizant Principle Investigator.
3. Sample and solution identification was spot-checked, and appeared acceptable in all areas. A more detailed surveillance may be warranted considering the large number of samples and extent of sample dividing and processing.
4. In-process entries in several scientific notebooks were confirmed to meet accepted practices.

UNSATISFACTORY FINDINGS:

1. In the Building 51 experimental area, the Aqua Lab CX-2 (s/n 0493785) and the Dwyer Manometer 475-6 Mark II did not have any evidence of calibration. The P.I. indicated both could be making quality affecting measurements.
2. In Scientific Notebook control number 087, used in the Building 57 Thermohydrology area, pages between entries were left blank.

These discrepancies are minor, and have been discussed with the cognizant Principle Investigators, so no additional action is necessary.