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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES
QUALITY ASSURANCE
SURVEILLANCE REPORT

PROJECT NO.: 20-3704-042 | REPORT NO.: 90-007 | PAGE 1 OF 2

SURVEILLANCE SCOPE:

Geochemistry Research Project: Ion Exchange Kinetic Experiments

REFERENCE DOCUMENTS: CQAM (in general)

STARTING DATE: 7/25/90 ENDING DATE: 7/25/90

QA REPRESENTATIVE: R. D. Brient

PERSONS CONDUCTING TEST / EXAM / ACTIVITY:

R. Pabalan

SATISFACTORY FINDINGS:

See Attached.

UNSATISFACTORY FINDINGS:

None

NONCONFORMANCE REPORT NO.: None

ATTACHMENTS: Satisfactory Findings.

RECOMMENDATIONS / ACTIONS

1. Balances and other test equipment (ion analyzers) should be identified in the Scientific Notebook by serial number whenever used.

APPROVED: _____
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 7/26/90

DISTRIBUTION:
ORIGINAL - CENTER QA DIRECTOR
ORIGINATOR
PRINCIPAL ENGINEER R. Pabalan
ELEMENT MANAGER J. Russell

CNWRA FORM QAP-8

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SATISFACTORY FINDING:

1. Verified calibrations of Mettler PM4600, S/N 12046 due 1/91, Mettler AE240, S/N 101237 due 1/91. Selective ion electrode meters are standardized using NIST traceable applications solutions available through the instrument manufacturer.
2. Reviewed Scientific Notebook (#GC-02) entries documenting standard solution preparation (pgs 90 to 127). Lot numbers of reagents are recorded.
3. The current experiments involve mixing stock solutions of K or Ca of varying concentrations with various amounts of the prepared clinoptilolite solid (purified in previous experiments). The mixtures are agitated in a heated water bath, and samples taken periodically for analysis by ion selective electrode and ICP (Div. 01).
4. Sample bottles are adequately labeled with sample number and date and time of sampling.