



# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-5704-073

REPORT NO.: 94-08

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**SURVEILLANCE SCOPE:** QA surveillance to evaluate the implementation of a portion of the Uranium Sorption Experiment E-1, specifically, the weighing of samples to determine the amount of evaporation that had occurred since inception of the experiment for the purpose of correcting the uranium concentration. This step was accomplished prior to adding the solid phase to the aqueous solutions. The activity took place in CNWRA Bldg. 57, in the Geochemistry Lab containing the controlled atmosphere glove box.

**REFERENCE DOCUMENTS:** Uranium Sorption Experiment E-1 procedure, written by R.T. Pabalan, April 26, 1994; QAP-001, Scientific Notebook Control; and QAP-004, Surveillance Control, Section 3.3 and 3.4.

**STARTING DATE:** 8/26/94

**ENDING DATE:** 8/26/94

**QA REPRESENTATIVE:** B. Mabrito

**PERSONS CONDUCTING TEST/EXAM/ACTIVITY:** James Prikryl.

**SATISFACTORY FINDINGS:** 1) Appropriate Scientific Notebook was near the work activity and was being used to record actions taken and results of measurements; 2) printed Uranium Sorption Experiment E-1 procedure was mounted in the Scientific Notebook and was readily available for reference; 3) certificate of analysis for Carbon Dioxide bottle was mounted in the Scientific Notebook; 4) partial pressure atmosphere of 1% Carbon Dioxide was being monitored inside enclosed glove box; 5) the lot number of the reagent being used (0.1 m sodium nitrate solution) was recorded in the Scientific Notebook; 6) the Mettler PM4600 DeltaRange Scale had a calibration sticker and was in calibration (cal due date 9/4/94) at the time of the measurements; 7) pages showing the sample weights of the specimens included the Identification Number, weight of solution added, weight of sample without cap, weight of sample with cap, weight of sample after pH measurement, and room was left on the Scientific Notebook pages for other measurements yet to be taken; 8) entries were clear and legible.

**UNSATISFACTORY FINDINGS:** There were no unsatisfactory findings concerning this limited scope surveillance.

**NONCONFORMANCE REPORT NO.:** N/A.

**ATTACHMENTS:** None.

**RECOMMENDATIONS/ACTIONS:** Although the SwRI Calibration Lab had already identified J. Prikryl of the need to re-calibrate the Mettler scale, it may be necessary to contact them for prompt service. No measurements shall be taken from the Mettler scale after the calibration due date is passed, unless it is re-calibrated by a qualified organization.

**APPROVED:**   
CENTER DIRECTOR OF QUALITY ASSURANCE

**DATE:** 9/7/94

**DISTRIBUTION:**

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