

**U.S. DEPARTMENT OF ENERGY
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT
OFFICE OF QUALITY ASSURANCE**

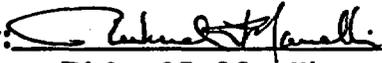
SUPPLIER AUDIT REPORT

OF

BARBOUR WELL SURVEYING CORPORATION

CAMARILLO, CALIFORNIA

**REPORT NUMBER OQA-SA-96-006
OCTOBER 09 THROUGH 10, 1995**

Prepared by:  Date: 11/13/95

**Richard L. Maudlin
Audit Team Leader
Yucca Mountain Quality
Assurance Division**

Approved by:  Date: 11/16/95

**Donald G. Horton
Director
Office of Quality Assurance**

9511300157 951116
PDR WASTE
WM-11 PDR

ENCLOSURE

1.0 EXECUTIVE SUMMARY

The results of the supplier audit of Barbour Well Surveying Corporation revealed unsatisfactory conditions resulting in the issuance of four Performance Reports to Barbour Well Surveying Corporation for action which relates to the Quality Assurance (QA) program for the Office of Civilian Radioactive Waste Management (OCRWM) activities. The performance reports relate to a lack of evidence of implementation of requirements stated in the Barbour Well QA Manual. Detailed procedures were in place for the scope of work and implementation was considered to be effective in producing the desired results except in the areas found unsatisfactory. The unsatisfactory conditions found were all minor in nature and do not pose any adverse impact on the work performed by Barbour Well Surveying Corporation. For the most part, QA records were complete and readily retrievable.

The unsatisfactory conditions identified during the audit were discussed with Barbour Well Surveying Corporation management who agreed to resolve the unsatisfactory conditions upon receipt of the reported conditions adverse to quality.

2.0 SCOPE

The supplier audit was conducted to evaluate the adequacy, implementation, and effectiveness of Barbour Well Surveying Corporation's quality program. This was accomplished by determining if the Barbour Well Surveying Corporation's program satisfies the QA requirements specified in the T&MSS procurement document 39-9600-18-39, Barbour Well Surveying Corporation's Quality Assurance Manual - 100, Revision 1, as accepted by T&MSS, and the OCRWM Quality Assurance and Requirements Description (QARD) for the scope of work. The QA program elements determined to be applicable are: Organization; QA Program; Procurement Document Control; Instruction, Procedures and Plans; Document Control; Control of Purchased Items and Services; Test Control; Measuring and Test Equipment; Corrective Action; and QA Records.

3.0 AUDIT TEAM AND OBSERVERS

Richard L. Maudlin, Audit Team Leader, Office of Quality Assurance (OQA), Yucca Mountain Quality Assurance Division (YMQAD)

4.0 PERSONNEL CONTACTED DURING FACILITY AUDIT

C. Barbour, Finance Administration and Purchasing (Acting in behalf of the QA Manager), Barbour Well Surveying Corp.

J. Barbour, President and Manager of Operations Geophysical Services, Barbour Well Surveying Corp.

5.0 SUMMARY OF AUDIT RESULTS

Barbour Wells Surveying Corporation's Quality Assurance Manual - 100 , Rev. 1 , addresses the applicable requirements of the T&MSS procurement document No. 39-9600-18-39 and the applicable elements of the OCRWM QARD for the intended scope of work. Procedures were in place and implementation was considered to effectively produce the desired results, except for those areas deemed unsatisfactory and noted in Section 6.0 of this report. Specifics of the unsatisfactory conditions are described in Section 6.0 of this report "Deficiencies/ Recommendations."

The details of the audit, along with the objective evidence reviewed, are contained within the audit checklist which is available from the OQA's quality records files.

6.0 DEFICIENCIES/RECOMMENDATIONS

The unsatisfactory conditions have been documented on the respective corrective action documents and submitted to Barbour Well Surveying Corporation for resolution. Recommendations, as applicable, have been provided for Barbour Well management consideration and action as deemed appropriate. The recommendations are offered as suggestions to improve your processes and are not required to be acknowledged unless otherwise stated.

DEFICIENCIES

1. PR No. YMQAD-96-P-007 - The Barbour Well QA Manual, Section 3.0, Subsections 3.4.2 and 3.4.2.5 requires the QA Manager to conduct a review of the Quality Program, identifying remedial action required, and submitting the results and recommendations to appropriate management. Contrary to this requirement, there was no objective evidence provided to support the review of the QA Program by the QA Manager.
2. PR No. YMQAD-96-P-008 - The Barbour Well QA Manual, Section 6.0, Subsection 6.3 requires that QA verify purchase request details, the types of purchase, the vendor, adds QA requirements if appropriate, approves and releases to the buyer for placement. Contrary to the above, there was no objective evidence that QA had reviewed and approved purchase requests/purchase orders CP- 655-1, CP-655-2, and CP-655-3 all issued on 6/5/95.
3. PR No. YMQAD-96-P-009 - Barbour Well implementing procedure QA-SYS-101, paragraph 6.4 requires that procedures, when changed, increase in number by one for each subsequent change. Contrary to this requirement, Barbour Well procedure OPN-CAL-107 had been revised twice since the initial issue, however,

both revisions were noted as Rev 1.

4. PR No. YMQAD-96-P-010 - The Barbour Well QA Manual, Section 13.0, requires that audits of records will be conducted annually to assure that the retention process is adequate. Contrary to this requirement, there is no objective evidence that records have been audited annually to assure the retention process is adequate.

RECOMMENDATIONS

1. Attachment III of Barbour Well procedure QA-TRN-105 is used to document training of personnel to implementing procedures. It is recommended that procedure revisions be referenced on the form as well as the procedure.