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ASEA BROWN BOVERI

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NSWC PANAMA CITY
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June 15, 1991

Commanding Officer
ATTN: Ken Barnes, Code 18225
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
Charleston SC 29411-0068

SUBJECT: QA Audit Report - Sampling Program
RCRA Facility Investigation (RFI),
Naval Coastal Systems Center (NCSC), Panama City, Fl
CTO No. 0004
Navy CLEAN District I
Contract N62467-89-D-0317

Dear Ken:

Enclosed is a copy of the QA audit report prepared by Mr. John McVoy, Quality Assurance Manager (QAM), ABB Environmental Services, Inc. Corrective actions implemented to address these findings are listed below.

Comment 1. All members of the sampling team were Health and Safety trained and had also participated in sampling activities at other sites. However, the sampling crew had limited experience in troubleshooting.

Comment 2. The pH and Conductivity meter were calibrated prior to leaving the office. Therefore, the sampling crew did not calibrate the instruments on the first day of the sampling event. The instruments were calibrated at the beginning of each day for all days of the sampling event. To address concerns raised by the QAM, physical parameters for wells sampled during shift I will be measured again during shift II.

The oversight report does not identify "appropriate instruments" for measurement of pH and conductivity.

Comment 3. Equipment procedure manuals will be available in the field for all future sampling events.

Comment 4. The site specific QA plan does not address this issue. The CompQAP is a recently approved document. The sampling crew was following procedures described in the site specific QA plan.

Comment 5. Specific procedures for calibration of thermometers are not listed in the CompQAP.

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Comment 6. This comment was noted by the Task Order Manager. Sample bottles will be kept in coolers until the field crew is ready to collect samples.

Comment 7. Internal calibration of the Foxboro OVA was performed prior to leaving the office. Standard procedures state that the OVA should be zeroed at the beginning of each day in the field. This was performed daily by the field crew.

Comment 8. The site specific QA plan does not address this issue. Procedures followed by the sampling crew were as specified in the approved site specific QA plan.

Comment 9. The work plan does not address maintaining field equipment log. This is a very good suggestion and will be implemented for all future sampling episodes.

Comment 10. Preservative was added to the sample bottles, by the analytical laboratory, before being shipped to the site. VOC vials were preserved with hydrochloric acid and the sample container for metals analysis was preserved with nitric acid.

The observations reported in the over~~sight~~site report and verbal comments by USEPA and FDER have been implemented and/or corrected.

If you have any questions, please call me at 904-656-1293.

Very truly yours,

ABB ENVIRONMENTAL SERVICES INC.

Rao V.R. Angara
Task Order Manager

cc: T. Allen
File CTO-0004 (Task 5)

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Inter-Office Correspondence

MEMO TO: Rao Angara

FROM: John C. McVoy

DATE: June 12, 1991

SUBJECT: QA OVERSITE INVESTIGATION - NAVAL COASTAL SYSTEM CENTER, PANAMA CITY-- CTO #0004R1

An oversite review of sampling and decontamination procedures at NCSC - Panama City, Navy CLEAN, occurred on June 3 - 4 , 1991. From a quality perspective, the following observations were identified as compromising to data quality (sampling quality) and environmental decision making.

Findings

1. Training of new field personnel was not adequate or was not performed prior to site activities.

2. PH and Conductivity meters were not calibrated prior to the collection of ground water samples. Buffers and calibration check standards were not available and therefore not used to check calibrations. The field pH meters used were not appropriated for field measurements.

3. PH and conductivity meter instructions and field standard operating procedures were not available.

4. Acceptability and data rejection criteria were not observered when field measurements were performed. Though these limits were not originally addressed in the site QA plan, "Good Analytical Field Practices" would necessitate data rejection criteria be followed. (refer to CompQAP table 5.1)

5. The thermometer used in obtaining ground water temperatures had not been calibrated and should not have been used.

6. Volatile samples were collected in warm sample containers that had been placed in direct sun light resulting in the loss of analyte.

7. The Foxboro OVA was not calibrated or standardized prior to use.

8. Sampling equipment, other than stainless steel sampler devices, should have been decontaminated with a nitric acid solution rinse. (See NEESA 20.2-057.03, SOP 0005 and the CompQAP, section 6.0)

9. A separate "Field Equipment Log", which contains daily field equipment uses and decontaminations, was not used. (refer to NEESA 20.2-047B)

10. Chain - of - Custodies did not indicate which samples taken contained preservatives.

If you have any questions, please do not hesitate to discuss them with me. A formal response or corrective action is not required at this time. However, you should plan to address these issues with your field crew and you should document those discussions in your progress reports and project file.

cc: T. Allen
J. Wallace