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SITE SPECIFIC QUALITY ASSURANCE PLAN FOR ASSESSMENT OF CONTAMINATION AT NAVAL TRAINING CENTER MCCOY ANNEX NSA PANAMA CITY FL

7/1/1988

E.C. JORDAN CO

1.0

SITE SPECIFIC QUALITY ASSURANCE PLAN
FOR
ASSESSMENT OF CONTAMINATION
AT
NAVAL TRAINING CENTER McCOY ANNEX
ORLANDO, FLORIDA

PREPARED FOR

SOUTHERN DIVISION NAVAL FACILITIES
ENGINEERING COMMAND
5400-04

BY
E.C. JORDAN CO
2571 EXECUTIVE CENTER CIRCLE, SUITE 100
TALLAHASSEE, FLORIDA

JULY 1988

Project Title: Site Specific Quality Assurance Plan for the Assessment of Contamination at the Base Exchange Service Station at the McCoy Annex NTC Orlando, Florida

Site Name: Naval Training Center McCoy Annex

Address: Orlando, Florida

Client: U.S. Navy
Southern Division
Naval Facilities Engineering Command

Contact: Mr. William Raspet

Respondent Signature

Address: Public Works, Code NTS 526
Naval Training Center
Orlando, Florida 32813

Phone No.: (305) 646-5837

Project No.: 5400-04, 5400-06

E.C. Jordan Personnel:

Kenneth L. Busen
Project Manager

Mike Clark
QA/QC Officer

Address: 2571 Executive Center Circle East, Suite 100
Tallahassee, Florida 32301-5001

Phone No.: (904) 656-1293

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3.0 PROJECT DESCRIPTION

An abbreviated description of the project has been supplied below. This description includes:

- Background and overall project objectives (P-CAPs, CARs, etc.).
- Intended use of the acquired data
- List of measurement parameters
- Numbers of samples to be taken
- Kinds of samples to be taken
- Dates anticipated for start and completion

In assessing the presence and nature of possible contamination at the McCoy Annex Base Exchange Service Station, E.C. Jordan personnel will install 6 monitoring wells and collect soil samples from the well borings, and collect groundwater samples from each of the wells. The soil and groundwater samples will be sent to Pioneer Laboratory in Pensacola and analyzed for BETX's, total VOA, 1,2-dicloroethane, EDB, MTBE and lead. The results of these investigations will assess whether a contamination problem exists beneath the sites, the nature of the contamination and preliminary delineation of the extent of the contamination. The field investigation is expected to begin on August 22, 1988 and be completed by September 2, 1988.

PARAMETER	MATRIX	NO. OF SAMPLES
Benzene	GW[1]	11
	Soil	7
Ethylbenzene	GW	11
	Soil	7
Toluene	GW	11
	Soil	7
Total Xylenes	GW	11
	Soil	7
Total VOA	GW	11
	Soil	7
1,2-Dichloroethane	GW	11
	Soil	7
Ethylene Dibromide	GW	11
	Soil	7
Methyl-Tert-Butyl-Ether	GW	11
	Soil	7
Lead	GW	11
	Soil	7

[1]GW - Groundwater

BLANKS

Trip blanks	-	1 set/cooler
Replicate blanks	-	1 set/10 samples i.e. 1 set/EPA Method #601 1 set/EPA Method #602,
Sample blanks	-	1 set/10 samples
Equipment Blanks	-	1 set for GW and 1 set for soil sampling equipment

4.0 PROJECT ORGANIZATION AND RESPONSIBILITIES

The project organization and responsibilities for this site specific project are the same as those found in Sections 4.1 through 4.4 of the approved General Quality Assurance Plan (GQAP) #86079G. Yes___ No_X_. If not, the changes are documented below and on the Organizational Charts on the following pages. SEE PROJECT ORGANIZATIONAL CHART.

Mr. Kenneth Busen will be the Project Manager, Mr. Mike Clark will be the Health and Safety Officer, and Mr. Mark Diblin will be the Technical Director. The Technical Review Board will consist of Mr. Tony Allen, CPSS and Dr. Myron Hayden, Ph.D., P.E.

PROJECT ORGANIZATION

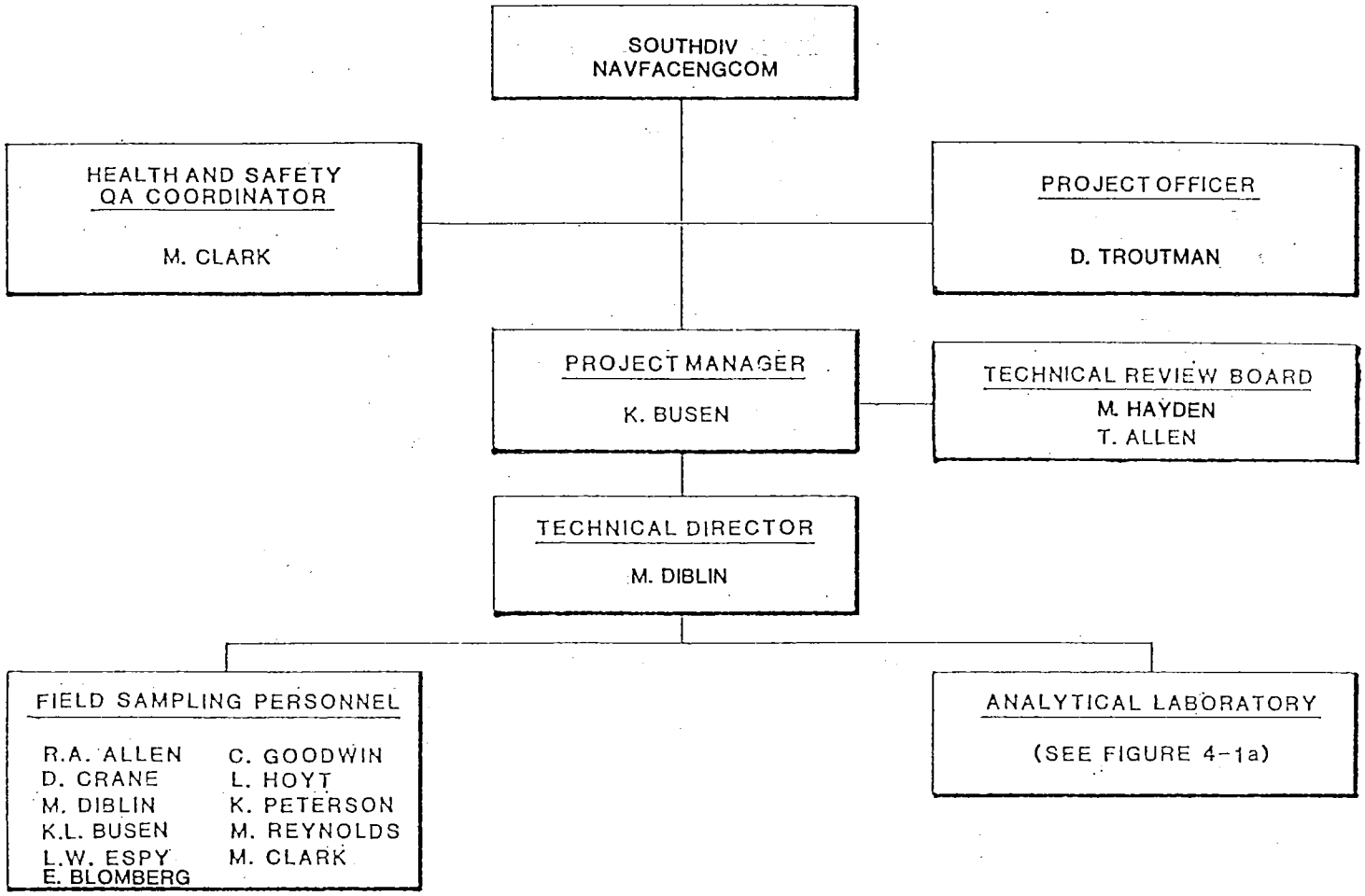
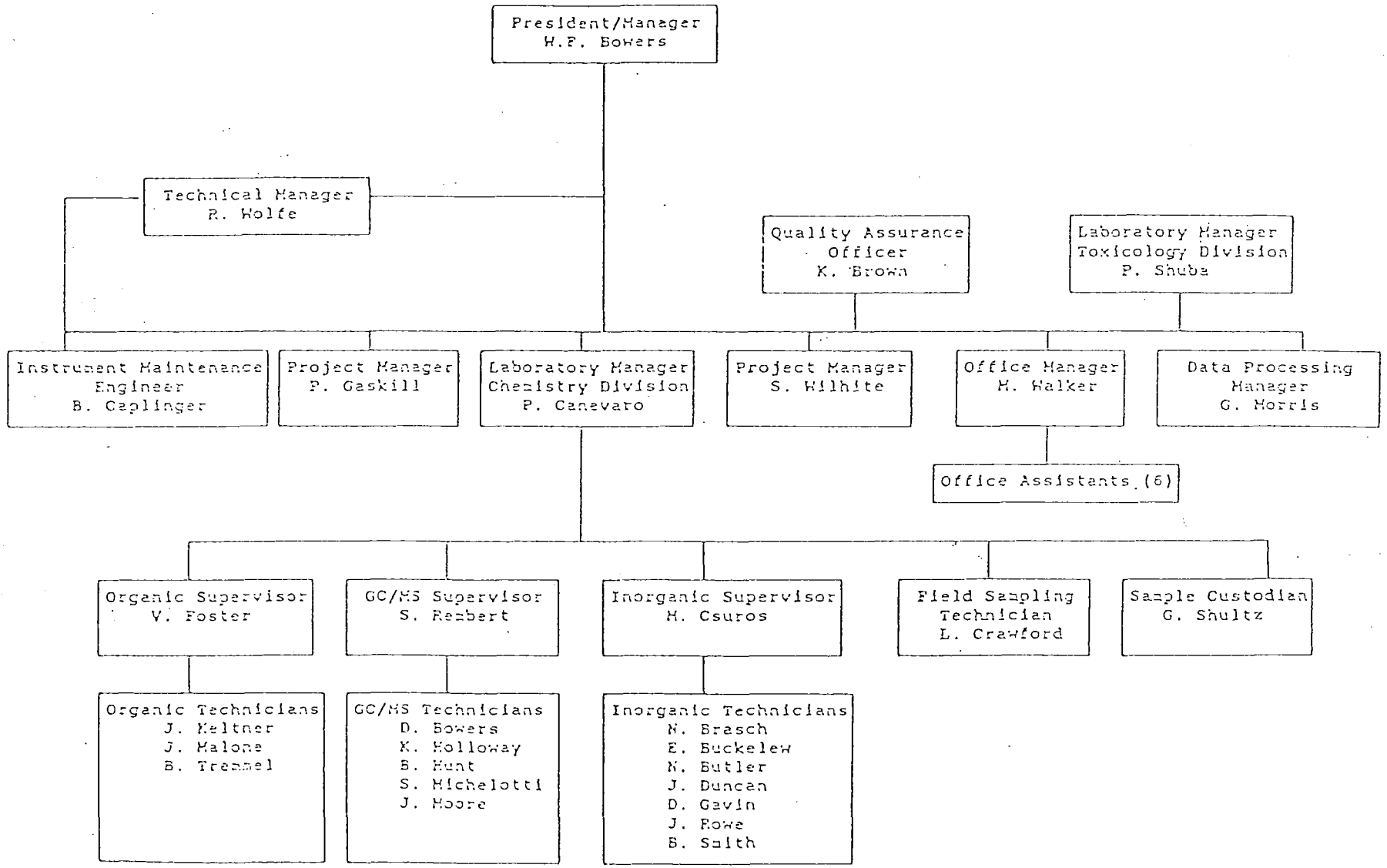


FIGURE 4-1
PROJECT ORGANIZATION

Figure 4.1a
Laboratory Organization and Responsibilities



5.0 QUALITY ASSURANCE OBJECTIVES

The Quality Assurance documented in the approved GQAP #86079G, Section 5.1 through 5.6 are the same as those for this site specific project plan. Yes _X_ No___. If not, the changes described below:

6.0 SAMPLING PROCEDURES

The preparation of sample containers and sampling procedures described in Sections 6.2.3, 6.3, 6.4 and 6.5 of the approved GQAP #86079G are the same as those to be employed at this site Yes_X_ No___. If not, all procedure changes will be documented below:

7.0 SAMPLE CUSTODY

The sample custody procedures outlined in the approved GQAP #86079G Sections 7.1 through 7.3 will be employed for samples taken at this site. Yes_X_ No___. If not, the difference in procedures are described below.

8.0 CALIBRATION PROCEDURES AND FREQUENCY

The calibration procedures and frequency of calibration for the laboratory and field instruments are the same as those outlined in Section 8.1 and 8.2 of the approved GQAP #86079G.
Yes_X_ No___. If not, the changes in calibration procedures or frequency of calibration are below.

9.0 ANALYTICAL PROCEDURES

The analytical procedures outlined in Section 9.1 in the approved GQAP #86079G are to be followed when testing for parameters listed in Section 2.0 of this document. Yes_X_ No___. If not, the analytical procedures to be employed will be noted on the Analysis Request Form which accompanies the samples. Any analytical procedures not described in the GQAP #86079G will be described below.

10.0 DATA MANAGEMENT

The data generated at this site will be managed in accordance with the procedures outlined in Section 10.1 through Section 10.4 of the approved GQAP #86079G. Yes_X_ No___. If not, the changes in procedures are outlined below.

11.0 INTERNAL QUALITY CONTROL

The quality control procedures that have been established for the laboratory and field activities in Section 11.0 in the approved GQAP #86079G will be followed at this site. Yes_X_ No___. If not, the quality control procedures changes are noted below.

12.0 AUDITS

The systems, performance, project and QA audits described in Section 12.1 through 12.4 of the approved GQAP #86079G will be performed on data generated at this site. Yes_X_ No___. If not, all relevant changes will be described below. FDER will be permitted access to do field and lab audits if deemed necessary.

13.0 PREVENTIVE MAINTENANCE

The preventive maintenance procedures outlined in the approved GQAP #86079G in Sections 13.1 and 13.2 will be adhered to during work at this site. Yes_X_ No___. If not, the procedure changes will be described below.

14.0 DATA ASSESSMENT

The data generated at this site will be assessed according to the procedures outlined in Sections 14.1 through 14.6 of the approved GQAP #86079G. Yes_X_ No___. If not, all changes in data assessment procedures will be described in the space below.

15.0 CORRECTIVE ACTION

The corrective actions outlined in Sections 15.1 through 15.5 of the approved GQAP #86079G will be implemented whenever corrective action is deemed necessary. Any other corrective actions that are implemented at this site or during data generation will be described below.

16.0 REPORTS TO MANAGEMENT

Reports to management will be made in accordance with the guidelines and time frame outlined in the approved GQAP #86079G. Any changes in this time frame or the guidelines will be noted below.

17.0 QUALIFICATIONS OF PROJECT PERSONNEL

If personnel other than those listed in the approved GQAP #86079G work on this project, a complete list of their qualifications or their resume will be included in this project plan. Also, included will be a description of their responsibilities to the project. As Health and Safety QA Officer, Mr. Clark will be responsible for health and safety at the site and for the Site Safety Plan. As Project Manager, Mr. Busen's responsibilities will include contract management, budgeting, reviewing reports, and ensuring objectives of the project are completed in a time and cost efficient manner. A Technical Director, Mr. Diblin will coordinate all field activities which includes sampling, drilling, and shipping.

ERIC A. BLOMBERG, HYDROGEOLOGIST

Qualification Summary

Mr. Blomberg's areas of expertise include hydrogeology, geology, geochemistry, and petroleum geology. His work experience includes hydrogeologic assessment of several hazardous and non-hazardous waste sites in the southeast. Other experience includes participating in exploration and production programs for a major oil company in various regions of the United States.

Education

M.S./Undesignated, 1988, Georgia Institute of Technology
B.S./Geological Engineering, 1985, Colorado School of Mines

Mr. Blomberg's academic background is in geological engineering and geology with a special emphasis in hydrogeology. Pertinent course work includes hydrogeology, flow through porous media, physical hydrology, hazardous waste contamination, environmental fluid mechanics, urban hydrology, and aqueous geochemistry. Mr. Blomberg's masters special problem was on "Experimental Methods to Model Unsaturated Flow Through Shredded DeKalb County, Georgia, Landfill Refuse".

Relevant Experience

Preliminary Assessment of Contaminated Military Sites--Mr. Blomberg's responsibilities included writing technical reports, supervising monitoring well installations, collecting groundwater samples, and recording water level readings to assess the extent of hydrocarbon contamination.

Hydrogeologic Assessment of Various Contaminated Sites--Mr. Blomberg participated in several projects aimed at determining the source and extent of groundwater contamination as well as developing methods to remove the contaminant. The work included the quantitative and graphical analysis of data from several monitoring wells along with on-site investigations.

Exploration and Production for a Major Oil Company--Mr. Blomberg has participated in the maintenance and operation of an offshore gas production platform. Mr. Blomberg has also worked onshore as a roustabout in the field and a geological engineer in the office. While in the office Mr. Blomberg helped prove that a separate oil reservoir existed in the Mondak Field, North Dakota through the analysis of borehole logs and bottom hole pressure tests.