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CNC CHARLESTON
5090.3a

NO FURTHER ACTION (NFA) FOURTH QUARTER 2000 MONITORING REPORT RECEIVED
28 FEBRUARY 2001 FOR ZONE G SITE 17 BUILDING B42 CNC CHARLESTON SC
02/28/2001
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



28 February 2001

2600 Bull Street
Columbia, SC 29201-1708

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DEPARTMENT OF THE NAVY
SOUTHERN DIVISION NAVAL FEC
GABRIEL MAGWOOD
P.O. BOX 190010
N. CHARLESTON SC 29419-9010

Re: Zone G, Site 17 – Building B42
Site Identification # 17780
Fourth Quarter 2000 Monitoring Report received 28 February 2001
No Further Action
Charleston County

Dear Mr. Magwood:

The Department has reviewed the referenced assessment report. As submitted, the report documents current and historical efforts to monitor soil and groundwater for hydrocarbon contamination at the subject site. Based on this review, it appears that maximum contaminant levels have not been exceeded in soil and/or groundwater at the site.

Based on the information and analytical data submitted, the Department recognizes that the Department of the Navy has adequately addressed the known environmental contamination identified on the property to date in accordance with the approved scope of work. Consequently, no further investigation is required at this time. Please note, this statement pertains only to the portion of the site addressed in the referenced report and does not apply to other areas of the site and/or any other potential regulatory violations. Furthermore, the Department retains the right to request further investigation if deemed necessary.

The monitoring well(s) may be permanently abandoned by a certified well driller licensed in South Carolina in accordance with the South Carolina Well Standards and Regulations, R.61-71 or properly maintained. Should you choose to abandon the well, please submit a well abandonment record to my attention within 30 days of abandonment. Should you choose to properly maintain the monitoring well, please notify me within 14 days of this correspondence.

Should you have any questions, please contact me at 803-898-3553 (office phone), 803-898-3795 (fax) or bishopma@columb32.dhec.state.sc.us.

Sincerely,

Michael Bishop, Hydrogeologist
Groundwater Quality Section
Bureau of Water

Tom Knight, Manager
Groundwater Quality Section
Bureau of Water

cc: Trident District EQC
Mihir Mehta – SCDHEC BLWM
Technical File

**Forth Quarter 2000 Monitoring Report
Zone G, Site 17-Building B42
Charleston Naval Complex
North Charleston, South Carolina
SCDHEC NO. 17780**

RECEIVED

FEB 27 2001

Underground
Storage Tank Management

Prepared by

**CH2M-Jones, LLC.
Charleston Naval Complex
1849 Avenue F
North Charleston, South Carolina 29405
February 2001**

Prepared For:

**Southern Division Naval Facilities Engineering Command
P.O. Box 190010
North Charleston, South Carolina 29419-9010**

Table of Contents
Building B42
Charleston Naval Complex
North Charleston, South Carolina

Section	Title	Page #
1.0	Introduction	1-1
1.1	Background	1-1
1.2	General Site Description	1-1
1.3	Previous Investigation	1-1
1.4	Groundwater Monitoring Results	1-2
1.5	Conclusion	1-2
2.0	Tables	2-1
2.1	Summary of Groundwater Analyses	2-1
2.2	Historical Groundwater Analyses	2-1
2.3	Historical Soil Analyses	2-1
3.0	Figures	3-1
3.1	Map of Charleston Naval Complex	3-1
3.2	Site Location	3-2
4.0	Field Notes	4-1
4.1	Groundwater Sampling Forms	4-1
5.0	Attachments	5-1
5.1	Analytical Results	5-1

1.0 INTRODUCTION

1.1 Background

The Charleston Naval Complex is located on the banks of the Cooper River in Charleston County, South Carolina, and lies within the corporate boundaries of the city of North Charleston, approximately 5 miles north of the city of Charleston. The Complex is bounded on the east by the Cooper River and on the north, south, and west by the city of North Charleston.

1.2 General Site Description

The CNC is located in the city of North Charleston, on the west bank of the Cooper River in Charleston County, South Carolina as shown in Figure 3.1. This installation consists of two major areas: an undeveloped dredge materials area on the east bank of the Cooper River on Daniel Island in Berkley County, and a developed area on the west bank of the Cooper River. The developed portion of the base is on the peninsula bounded on the west by the Ashley River and on the east by the Cooper River. The site is located within the developed portion of the base (Tetra Tech, NUS [TTNUS], 1999).

Building B42 was used as a store room/boiler house for the former Green House. It was constructed over 20 years ago on previously underdeveloped land. UST B42 was a 560-gallon tank which supplied heating fuel oil for the buildings boiler. The boiler was located on the southwest corner of Building B42 (see figure 3-2) (Tetra Tech NUS, Inc. [TTNUS] Rapid Assessment Report [RA], 2000).

1.3 Previous Investigation

During initial site investigation, in the second quarter 1999, nine-soil samples were taken, and in the third quarter 1999, six monitoring wells (MW-01 through MW-05, and MW-6D) were installed in the vicinity of the former underground storage tank. The shallow groundwater monitoring wells were installed to a depth of approximately 13 feet below land surface, with one deep well approximately 26 feet in depth and were constructed of a two-inch diameter, Schedule 40, PVC casing and 10 feet of 0.010 inch slotted well screen. The soil samples were taken using a hand auger to bore a hole down into the subsurface. Samples of the borehole cuttings were taken in one-foot intervals. Field samples were taken for each soil boring interval and the highest interval was sampled and assumed to be the concentration for the entire soil boring. The samples were sent to be analyzed by a certified Laboratory. The soil samples collected during the first round were analyzed for PAH's and BTEX. All COC's for soil were below the RBSL's for sandy soil. Groundwater samples collected during the first round of sampling from MW-01, MW-02, MW-05, and MW-6D were analyzed for BTEX and PAH's. All COC's were below detection limits for groundwater samples.

1.4 Groundwater monitoring results- Forth Quarter 2000

Groundwater samples were collected from groundwater monitoring wells MW-01, MW-02, MW-05, and MW-6D by CH2M-Jones on November 16, 2000 (Forth Quarter 2000). In addition to PAH's, BTEX, and the intrinsics (nitrate, sulfate, total dissolved iron, methane and alkalinity), one trip blank and one equipment blank were collected for quality assurance. Groundwater samples were analyzed by a certified Laboratory (see figure 3-2 for sample locations).

Laboratory analytical results for monitoring wells MW-01, MW-02, MW-05, and MW-6D are shown in Table 2.1.

All results from groundwater testing for the fourth quarter 2000 at Building B42 were below detection limit, which concurs with historical data at this site.

1.5 Conclusion

The third quarter 1999 and the fourth quarter 2000 results indicate that there are no Contaminates of Concern (COC) in groundwater for this site. The second quarter 1999 results indicated that there are no COC's above RBSL's in the soil for this site. Due to the fact that the original samples were below the detection limits, and the re-sample event on November 16, 2000 indicated that all COCs were below the detection limits, CH2M-Jones LLC recommends a No Further Action (NFA) for Zone G/ Site 17 Building, SCDHEC No: 17780.

TABLES

Table 2.1
 Summary of Groundwater Laboratory Analyses
 Forth Quarter 2000
 Zone G, Site 17-Building B42
 Charleston Naval Complex
 North Charleston, South Carolina

Parameters	CNC17-MW01	CNC17-MW02	CNC17-MW05	CNC17-MW6D	EPA Method
BTEX	BDL	BDL	BDL	BDL	8260
PAH's	BDL	BDL	BDL	BDL	8260

Table 2.2
 Summary of Groundwater Laboratory Analyses
 Second Quarter 1999
 Zone G, Site 17-Building B42
 Charleston Naval Complex
 North Charleston, South Carolina

Parameters	CNC17-MW01	CNC17-MW02	CNC17-MW03	CNC17-MW04	CNC17-MW05	CNC17-MW6D
BTEX	BDL	BDL	BDL	BDL	BDL	BDL
PAH's	BDL	BDL	BDL	BDL	BDL	BDL

Table 2.3
 Summary of Soil Laboratory Analyses
 Third Quarter 1999
 Zone G, Site 17-Building B42
 Charleston Naval Complex
 North Charleston, South Carolina

Parameters	CNC17-B01	CNC17-B02	CNC17-B03	CNC17-B04	CNC17-B05	CNC17-B07	CNC17-B09
Naphthalene	BDL	BDL	22.0 ppm	BDL	BDL	BDL	BDL
BTEX	BDL						
PAH	BDL						

FIGURES



Site 17-BLDG B42

Figure 3-1
Map of CNC
Site 17-BLDG B42
Charleston Naval Complex

CH2MHILL



Figure 3-2
Site Location Map
Site 17- Bldg 42
Charleston Naval Complex

CH2MHILL

FIELD NOTES

Figure 6-1
 Groundwater Sampling Form

Groundwater Sampling		Sample ID: <u>0426MWO211</u>																																																																
PROJECT NAME: <u>Charleston Naval Complex</u>		JOB NO: <u>093</u> DATE: <u>11-16-00</u>																																																																
WELL NO.: <u>CNC17-MWO2</u>		LOCATION: <u>Charleston, SC</u>																																																																
WEATHER CONDITIONS: <u>Cloudy</u>		AMBIENT TEMP: <u>60's</u>																																																																
REVIEWED BY: _____		PERSONNEL: <u>C. Blundy and B. Crawford</u>																																																																
PURGING DEVICE Type device? <u>P-pump</u> How was the device decontaminated? <u>n/a</u> How was the line decontaminated? <u>new line</u> Which well was previously purged? <u>n/a</u>		SAMPLING DEVICE Type device? <u>P-pump</u> How was the device decontaminated? <u>n/a</u> How was the line decontaminated? <u>new line</u> Which well was previously sampled? <u>n/a</u>																																																																
INITIAL WELL VOLUME Well diameter (in.) <u>2</u> Stickup (ft.) <u>Flush</u> Depth to bottom of well from TOC (ft.) <u>14.67</u> Depth to water surface from TOC (ft.) <u>8.38</u> Length of water (ft.) <u>6.29</u> Volume of water (ft. ³) <u>n/a</u> (gal.) <u>1.025</u> Amount of sediment at bottom of well (ft.) <u>n/a</u> 3 Volumes of water (gal.) <u>3.07</u>		PURGING Time started <u>1620 1515</u> Finished <u>1535</u> <u>1650</u> Volume purged _____ Comments on Well Recovery _____ Depth to water (ft.) _____ Completion _____ Additional Comments _____ Sample Collected: Start <u>1655</u> <u>1540</u> Finish <u>1555</u>																																																																
IN-SITU TESTING Time: <u>1525</u> <u>1530</u> <u>1535</u> _____																																																																		
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Figure 6-1
 Groundwater Sampling Form

Groundwater Sampling		Sample ID: <u>B426MW0511</u>																																																																
PROJECT NAME: <u>Charleston Naval Complex</u>	JOB NO: <u>093</u>	DATE: <u>11-16-00</u>																																																																
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WEATHER CONDITIONS: <u>Cloudy</u>	AMBIENT TEMP: <u>60's</u>																																																																	
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IN-SITU TESTING		Time: <u>1710</u> <u>1720</u> <u>1730</u> _____ _____ _____ _____																																																																
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ANALYTICAL RESULTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B42GMW6D11

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 34274

Matrix: (soil/water) WATER Lab Sample ID: 34274012

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2L314

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/29/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2-----	Benzene	1.0 U	
108-88-3-----	Toluene	1.0 U	
100-41-4-----	Ethylbenzene	1.0 U	
-----	m,p-Xylenes	2.0 U	
95-47-6-----	o-Xylene	1.0 U	
1330-20-7-----	Xylenes (total)	3.0 U	
91-20-3-----	Naphthalene	1.0 U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B42EMW0111

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 34274

Matrix: (soil/water) WATER Lab Sample ID: 34274013

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2L137

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/28/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

71-43-2-----	Benzene	1.0	U
108-88-3-----	Toluene	1.0	U
100-41-4-----	Ethylbenzene	1.0	U
-----	m,p-Xylenes	2.0	U
95-47-6-----	o-Xylene	1.0	U
1330-20-7-----	Xylenes (total)	3.0	U
91-20-3-----	Naphthalene	1.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B42GMW0111

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 34274

Matrix: (soil/water) WATER Lab Sample ID: 34274009

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2L311

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/29/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2-----	Benzene	1.0	U
108-88-3-----	Toluene	1.0	U
100-41-4-----	Ethylbenzene	1.0	U
-----	m,p-Xylenes	2.0	U
95-47-6-----	o-Xylene	1.0	U
1330-20-7-----	Xylenes (total)	3.0	U
91-20-3-----	Naphthalene	1.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B42GMW0511

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 34274

Matrix: (soil/water) WATER Lab Sample ID: 34274011

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2L313

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/29/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2-----	Benzene	1.0	U
108-88-3-----	Toluene	1.0	U
100-41-4-----	Ethylbenzene	1.0	U
-----	m,p-Xylenes	2.0	U
95-47-6-----	o-Xylene	1.0	U
1330-20-7-----	Xylenes (total)	3.0	U
91-20-3-----	Naphthalene	1.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B42GMW0211

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 34274

Matrix: (soil/water) WATER Lab Sample ID: 34274010

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2L312

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/29/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2-----	Benzene	1.0	U
108-88-3-----	Toluene	1.0	U
100-41-4-----	Ethylbenzene	1.0	U
-----	m,p-Xylenes	2.0	U
95-47-6-----	o-Xylene	1.0	U
1330-20-7-----	Xylenes (total)	3.0	U
91-20-3-----	Naphthalene	1.0	U