N61165.AR.005614
CNC CHARLESTON
5090.3a

THIRD QUARTER 2001 MONITORING REPORT RECEIVED 9 OCTOBER 2001 FOR ZONE G FUEL DISTRIBUTION SYSTEM (FDS) AREAS 2 THRU 6 WITH SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL REVIEW LETTER CNC CHARLESTON SC
10/08/2001
CH2M JONES LLC

J.A. JONES
ENVIRONMENTAL SERVICES

Charleston Naval Complex
1849 Avenue F
N. Charleston, SC 29405

Phone: (843) 740-2780
Fax: (843) 740-2785

Fax

To: Michael Bishop

From: Brian Crawford

Fax #: 803 898-3795

Total Pages: 14

Phone #: _____

Date: 10-10-01

Re: _____

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply

Comments:

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Water Monitoring, Assessment & Protection Division

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8 October 2001

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OCT 10 2001
Water Monitoring, Assessment & Protection Division

Commander
NAVFACENGCOM Southern Division
Attn: Code ES24 (Gabriel Magwood)
P.O. Box 190010
North Charleston, SC 29419-9010

Re: CNB – Zone G, FDS – Areas 2-6
Site Identification # 01181
Third Quarter 2001 Monitoring Report received 9 October 2001
Charleston County

Dear Mr. Magwood:

The Department has completed technical review of the referenced document. Interpretation of the analytical data provided in the referenced report indicates that chemicals of concern are below established Risk-Based Screening Levels and MCLs. The report references groundwater sampling data collected during June 2001, the Department file does not contain a record of these results. Please forward laboratory analytical data sheets for the June 2001 sampling event to the Department. Since the data record is incomplete, the Department is unable to evaluate the request for a no further action at this time.

Should you have any questions please contact me at (803) 898-3553 (office phone), (803) 898-3795 (fax) or by e-mail bishopma@columb32.dhec.state.sc.us. Please reference Site ID # 01181 on all future correspondence.

Sincerely,

Michael A. Bishop, Hydrogeologist
Groundwater Quality Section
Bureau of Water

cc: Trident District EQC (w/enc)
Technical File (w/enc)
Paul Bergstrand, SCDHEC-BLWM (n/enc)
Brian Crawford, 1849 Ave. F, N. Charleston SC, 29405

Chain of Custody/ Laboratory Analysis Form

Lab Batch/SDG ID: _____

Laboratory:	GEL, Charleston, SC
Project Name:	Charleston Navy Complex
Site Name:	Zone G, FDS Area 2-6
Project Number:	
TAT:	21 day
Project Manager:	Gary Foster/ATL/CCI
Level:	Level 3
Address:	GNV: 3011 SW Williston Rd., Gainesville, FL 32605
	ATL: 115 Perimeter Center Place NE, Suite 700, Atlanta, GA 30346-1278
Send Report To:	see 2nd page of COC
EDD:	CNC format

Sample ID	Station ID	Depth Begin	Depth End	Date & Time Collected	Matrix	# of containers	VOCs (SW8260)		pH (E160.1)	SVOCs (SW8270)							Comments
							3 - 40ml vial, HCl		1 - 250mL HDPE	2 - 1 Liter Amber							
FDSGW02ALA	GFDSGW02ALA			6-13-01/1205	WG	6	X		X	X							
FDSGW04BLA	GFDSGW04BLA	6-14-01		~~6-13-01~~/1030	WG	6	X		X	X							
FDSGW05BLA	GFDSGW05BLA			6-14-01/1110	WG	6	X		X	X							
FDSGW06BLA	GFDSGW06BLA			6-13-01/1515	WG	6	X		X	X							
FDSEW06BLA	GFDSEW06BLA			6-14-01/1115	WQ	6	X		X	X							EB
FDSTW06BLA	GFDSTW06BLA			Lab Supplied	WQ	3	X										TB

Sampled By: Chris Blundy Date/Time: 6-14-01/950 Relinquished by: Chris Blundy Date/Time: 6-15-01

Additional Samplers:

Received By Lab: Patricia Dover Date/Time: 6/15/01 17:00 Relinquished by: Date/Time

Received By: Date/Time

Shipped Via: UPS FedEx Hand Other _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDSTW06BLA

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 44131

Matrix: (soil/water) WATER Lab Sample ID: 44131006

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 10619

Level: (low/med) LOW Date Received: 06/15/01

% Moisture: not dec. _____ Date Analyzed: 06/23/01

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	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
	m,p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylenes (total)	5.0	U
91-20-3	Naphthalene	0.20	JB

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDSGW06BLA

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 44131

Matrix: (soil/water) WATER Lab Sample ID: 44131004

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 10617

Level: (low/med) LOW Date Received: 06/15/01

% Moisture: not dec. _____ Date Analyzed: 06/23/01

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	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
	m,p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylenes (total)	5.0	U
91-20-3	Naphthalene	0.32	JB

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDSGW05BLA

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 44131

Matrix: (soil/water) WATER Lab Sample ID: 44131003

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 10616

Level: (low/med) LOW Date Received: 06/15/01

% Moisture: not dec. _____ Date Analyzed: 06/23/01

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	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
	m,p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylenes (total)	5.0	U
91-20-3	Naphthalene	0.26	JB

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDSGW04BLA

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 44131

Matrix: (soil/water) WATER Lab Sample ID: 44131002

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 10615

Level: (low/med) LOW Date Received: 06/15/01

% Moisture: not dec. _____ Date Analyzed: 06/23/01

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	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
	m,p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylenes (total)	5.0	U
91-20-3	Naphthalene	0.31	JB

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDSEW06BLA

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 44131

Matrix: (soil/water) WATER Lab Sample ID: 44131005

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 10618

Level: (low/med) LOW Date Received: 06/15/01

% Moisture: not dec. _____ Date Analyzed: 06/23/01

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	5.0	U
108-88-3	Toluene	0.22	J
100-41-4	Ethylbenzene	5.0	U
	m,p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylenes (total)	5.0	U
91-20-3	Naphthalene	0.33	JB

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDSGW02ALA

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 44131

Matrix: (soil/water) WATER Lab Sample ID: 44131001

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 10614

Level: (low/med) LOW Date Received: 06/15/01

% Moisture: not dec. _____ Date Analyzed: 06/23/01

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	5.0	U
108-88-3	Toluene	5.0	U
100-41-4	Ethylbenzene	5.0	U
	m,p-Xylenes	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylenes (total)	5.0	U
91-20-3	Naphthalene	0.37	JB

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDSEW06BLA

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 44131

Matrix: (soil/water) WATER Lab Sample ID: 44131005

Sample wt/vol: 750.0 (g/mL) ML Lab File ID: 7Z316

Level: (low/med) LOW Date Received: 06/15/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 06/18/01

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 06/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.3	U
208-96-8	Acenaphthylene	1.3	U
83-32-9	Acenaphthene	1.3	U
86-73-7	Fluorene	1.3	U
85-01-8	Phenanthrene	1.3	U
120-12-7	Anthracene	1.3	U
206-44-0	Fluoranthene	1.3	U
129-00-0	Pyrene	1.3	U
56-55-3	Benzo(a)anthracene	1.3	U
218-01-9	Chrysene	1.3	U
205-99-2	Benzo(b)fluoranthene	1.3	U
207-08-9	Benzo(k)fluoranthene	1.3	U
50-32-8	Benzo(a)pyrene	1.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	U
53-70-3	Dibenzo(a,h)anthracene	1.3	U
191-24-2	Benzo(ghi)perylene	1.3	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDSGW02ALA

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 44131

Matrix: (soil/water) WATER Lab Sample ID: 44131001

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: 7Z312

Level: (low/med) LOW Date Received: 06/15/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 06/18/01

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 06/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	U
207-08-9	Benzo(k)fluoranthene	1.1	U
50-32-8	Benzo(a)pyrene	1.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.1	U
53-70-3	Dibenzo(a,h)anthracene	1.1	U
191-24-2	Benzo(ghi)perylene	1.1	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDSGW04BLA

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 44131

Matrix: (soil/water) WATER Lab Sample ID: 44131002

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: 7Z313

Level: (low/med) LOW Date Received: 06/15/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 06/18/01

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 06/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	U
207-08-9	Benzo(k)fluoranthene	1.1	U
50-32-8	Benzo(a)pyrene	1.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.1	U
53-70-3	Dibenzo(a,h)anthracene	1.1	U
191-24-2	Benzo(ghi)perylene	1.1	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDSGW05BLA

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 44131

Matrix: (soil/water) WATER Lab Sample ID: 44131003

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: 7Z314

Level: (low/med) LOW Date Received: 06/15/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 06/18/01

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 06/20/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	U
207-08-9	Benzo(k)fluoranthene	1.1	U
50-32-8	Benzo(a)pyrene	1.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.1	U
53-70-3	Dibenzo(a,h)anthracene	1.1	U
191-24-2	Benzo(ghi)perylene	1.1	U

D H E C

PROMOTE PROTECT PROSPER

2600 Bull Street
Columbia, SC 29201-1708

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Louisiana W. Wright

Larry R. Chewning, Jr., DMD

9 November 2001

Commander
NAVFACENGCOM Southern Division
Attn: Code ES24 (Gabriel Magwood)
P.O. Box 190010
North Charleston, SC 29419-9010

Re: CNB – Zone G, FDS – Areas 2-6
Site Identification # 01181
June 2001 Sampling Data received 10 October 2001
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 are not currently 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.statc.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 (w/enc)
Technical File (w/enc)
Paul Bergstrand, SCDHEC-BLWM (n/enc)
Brian Crawford, 1849 Ave. F, N. Charleston SC, 29405