M67001.AR.002717
MCB CAMP LEJEUNE
5090.3a

Baker

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Airport Office Park, Building 3
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(412) 269-6000
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April 30, 1996

Commander
Atlantic Division
Naval Facilities Engineering Command
1510 Gilbert Street (Building N-26)
Norfolk, Virginia 23511-2699

Attn: Ms. Katherine Landman
Navy Technical Representative
Code 18232

Re: Contract N62470-D-4814
Navy CLEAN, District III
Contract Task Order (CTO) 0312
Disposal of Investigation Derived Waste
Operable Unit No. 9 (Site 73)
MCB, Camp Lejeune, North Carolina

consider taking to P&T plant per direction from EMD.

Dear Ms. Landman:

The purpose of this letter is to solicit approval for the disposal of investigation derived waste (IDW) generated during the CTO-0312 field investigation. Approximately 5,500 gallons of liquid (purge water, development water, and decontamination fluids) were generated during the field investigation at Site 73. Upon completion of the sampling program, a composite liquid sample was obtained from the on-site tanker to determine the proper IDW disposal alternative. The liquid sample was analyzed for full target compound list (TCL) organics (i.e., volatiles, semivolatiles, PCBs, and pesticides) and target analyte list (TAL) metals.

Analytical results (attached) indicate that the liquid sample is non-hazardous. In light of these results, Baker proposes to empty the contents of the tanker onto the ground surface at Site 73. The proposed disposal alternative is consistent with LANTDIV IDW Management Plans and with the USEPA's Guide to Management of IDW. Pending LANTDIV's concurrence, Baker will discuss the proposed disposal alternative with personnel from the Environmental Management Department at MCB, Camp Lejeune.

Baker appreciates the opportunity to serve LANTDIV on this important project. If you have any questions, please do not hesitate to contact me at (412) 269-2063 or Mr. Matthew Bartman (Activity Coordinator) at (412) 269-2053.

Sincerely,

BAKER ENVIRONMENTAL, INC.

Daniel L. Bonk

Daniel L. Bonk, P.E.
Project Manager

DLB/lq

Attachment: IDW Analytical Results

cc: Ms. Lee Anne Rapp, Code 18312 (Letter only)
Ms. Beth Collier, Code 02115 (Letter only)
Mr. Neal Paul, MCB Camp Lejeune

IDW ANALYTICAL RESULTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDWAQDL

Lab Name: QES-KNOXVILLE Contract: 39984

Lab Code: ISTSU Case No.: CR103 SAS No.: _____ SDG No.: BAKER

Matrix: (soil/water) WATER Lab Sample ID: C3F6C201

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VC3F6CD

Level: (low/med) LOW Date Received: 03/27/96

% Moisture: not dec. ____ Date Analyzed: 03/28/96

GC Column: RTX624 ID: 0.530 (mm) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	ug/L NCQUS
74-87-3	Chloromethane	50	U	
74-83-9	Bromomethane	50	U	
75-01-4	Vinyl Chloride	50	U	
75-00-3	Chloroethane	50	U	
75-09-2	Methylene Chloride	21	BDJ	5
67-64-1	Acetone	560	D	700
75-15-0	Carbon Disulfide	50	U	
75-35-4	1,1-Dichloroethene	50	U	
75-34-3	1,1-Dichloroethane	50	U	
540-59-0	1,2-Dichloroethene (total)	50	U	
67-66-3	Chloroform	50	U	
107-06-2	1,2-Dichloroethane	50	U	
78-93-3	2-Butanone	50	U	
71-55-6	1,1,1-Trichloroethane	50	U	
56-23-5	Carbon Tetrachloride	50	U	
75-27-4	Bromodichloromethane	50	U	
78-87-5	1,2-Dichloropropane	50	U	
10061-01-5	cis-1,3-Dichloropropene	50	U	
79-01-6	Trichloroethene	50	U	2.8
124-48-1	Dibromochloromethane	50	U	
79-00-5	1,1,2-Trichloroethane	50	U	
71-43-2	Benzene	50	U	
10061-02-6	trans-1,3-Dichloropropene	50	U	
75-25-2	Bromoform	50	U	
108-10-1	4-Methyl-2-Pentanone	50	U	
591-78-6	2-Hexanone	50	U	
127-18-4	Tetrachloroethene	50	U	
79-34-5	1,1,2,2-Tetrachloroethane	50	U	
108-88-3	Toluene	50	U	
108-90-7	Chlorobenzene	50	U	
100-41-4	Ethylbenzene	50	U	
100-42-5	Styrene	50	U	
1330-20-7	Xylene (total)	50	U	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDWAQ

Lab Name: OES-KNOXVILLE Contract: 39984

Lab Code: ISTSU Case No.: CR103 SAS No.: _____ SDG No.: 73IDWA

Matrix: (soil/water) WATER Lab Sample ID: C3F6C102

Sample wt/vol: 1000 (g/mL) ML Lab File ID: C3F6C

Level: (low/med) LOW Date Received: 03/27/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/08/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDWAQ

Lab Name: QES-KNOXVILLE Contract: 39984

Lab Code: ISTSU Case No.: CR103 SAS No.: _____ SDG No.: 73IDWA

Matrix: (soil/water) WATER Lab Sample ID: C3F6C102

Sample wt/vol: 1000 (g/mL) ML Lab File ID: C3F6C

Level: (low/med) LOW Date Received: 03/27/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/08/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDWAQ

Lab Name: ITAS-KNOXVILLE Contract: 14257

Lab Code: _____ Case No.: CQ103 SAS No.: _____ SDG No.: CLJ06

Matrix: (soil/water) WATER Lab Sample ID: C3F6C-103

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 03/26/96

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/28/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/05/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

IDWAQ

Lab Name: QUANTERRA_KNOXVILLE_____ Contract: BAKER_____

Lab Code: ITSTU_ Case No.: CR103 SAS No.: _____ SDG No.: N/A___

Matrix (soil/water): WATER Lab Sample ID: C3F6C

Level (low/med): LOW__ Date Received: 03/27/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5830			P
7440-36-0	Antimony	26.7	U		P
7440-38-2	Arsenic	3.5	B		P
7440-39-3	Barium	26.1	B		P
7440-41-7	Beryllium	0.55	B		P
7440-43-9	Cadmium	2.8	U		P
7440-70-2	Calcium	28100			P
7440-47-3	Chromium	10.2			P
7440-48-4	Cobalt	12.5	U		P
7440-50-8	Copper	8.1	B		P
7439-89-6	Iron	2320			P
7439-92-1	Lead	4.0			P
7439-95-4	Magnesium	1960	B		P
7439-96-5	Manganese	15.4			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	8720			P
7782-49-2	Selenium	1.8	U		P
7440-22-4	Silver	3.4	U		P
7440-23-5	Sodium	68100			P
7440-28-0	Thallium	12.8			P
7440-62-2	Vanadium	31.6	B		P
7440-66-6	Zinc	43.7			P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: N/A___

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

COMPLETE_CLIENT_ID_NO._IS_73-IDW-AQ.