

Baker

Baker Environmental, Inc.
Airport Office Park, Building 3
420 Rouser Road
Coraopolis, Pennsylvania 15108

(412) 269-6000
FAX (412) 269-2002

September 12, 1995

Commander
Atlantic Division
Naval Facilities Engineering Command
1510 Gilbert Street (Building N-26)
Norfolk, Virginia 23511-6299

Attn: Mr. Lance Laughmiller
Navy Technical Representative
Code 18235

Re: Contract N62470-89-D-4814
Navy CLEAN, District III
Contract Task Order (CTO) 0312
IDW Removal
Operable Unit No. 9 (Site 73)
MCB, Camp Lejeune, North Carolina

Dear Mr. Laughmiller:

This letter report summarizes the investigative-derived waste (IDW) disposal activities conducted at Operable Unit No. 9 (Site 73), Marine Corps Base, Camp Lejeune, North Carolina. The IDW was generated during the remedial investigation activities conducted from April 3 through May 25, 1995, and was contained in two (6,500-gallon) tankers, one (1,000 gallon) polyethylene tanker, and one roll-off box (20 cubic yards).

The water in one of the tankers, was discharged on-site on June 20, 1995, since no contaminants were detected which would result in increased human health or ecological risks.

In a letter dated August 2, 1995, Baker Environmental provided details concerning sample collection and analytical findings of the remaining IDW, and provided conclusions and recommendations with respect to handling and disposal. The recommendations were subsequently approved by the Navy/Marine Corps. One addition to the recommendations was that the water contained in the remaining tankers was unable to be treated by the Hadnot Point Shallow Aquifer Remedial Action System. However, this water was able to be taken off-base as a nonhazardous waste water and transported to HOH Corporation, a Treatment Storage Disposal Facility (TSDF) located in Winston-Salem North Carolina. The remainder of this letter report provides a summary of the disposal activities conducted under this CTO.

DISPOSAL

Based on LANTDIV/MCB Camp Lejeune approval, Baker arranged for the disposal of the following:

- 6,678 gallons of nonhazardous well development and purge water
- 20 cubic yards of nonhazardous drilling and mud cuttings



A Total Quality Corporation

Baker

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Based on the nonhazardous determination of the IDW, the roll-off box contents were emptied on site and then graded. The roll-off box was then removed from Site 73. The development and purge water was removed via a vacuum truck and transported to HOH Corporation for disposal. Two trips were necessary to deplete all of the waste water. Both the 6,500-gallon and the 1,000-gallon polyethylene tankers were removed from Site 73. The Nonhazardous Profile Sheet, along with the Nonhazardous Waste Manifests, are provided in Attachment A.

Baker appreciates the opportunity to serve LANTDIV on this important project. If you have any questions, please do not hesitate to call me at (412) 269-4695.

Sincerely,

BAKER ENVIRONMENTAL, INC.



Malcolm W. Petroccia
Project Manager

MWP/PAM/lq

Attachments

cc: Mr. Neal Paul, IRP Director, MCB Camp Lejeune (w/attachments)
Mr. John Riggs Environmental Control Specialist, MCB Camp Lejeune (w/attachments)
Ms. Lee Ann Rapp, Code 1832 (w/o attachments)
Ms. Beth Collier, Code 02115 (w/o attachments)

Attachment A



MATERIAL PROFILE

1701 Vargrave St., Winston-Salem, NC 27107 • 910-727-4644 • Fax 910-727-8840

Name of Waste Stream Groundwater (Ref. 73 TK 615 / 73 POLY 01)

Approved Yes No Date _____ Initials _____

Generator Name Marine Corps Base - Camp Lejeune

Technical Contact John Riggs Kenn Webb

Facility Address Sneads Ferry Base

Title EMD - MCB Camp Lejeune Shamrock Env. Corp.

Camp Lejeune
Site 73

Phone (910) 451-5068 Ext. 910 375 1989

Fax (910) 451-2948 Ext. 910 375 1801

City Camp Lejeune

Billing Address Shamrock Environmental Corp.

State NC Zip 28542

PO Box 14987

EPA Identification Number NC 6170022580

City Greensboro

County: Onslow

State NC Zip 27415

Physical Characteristics at 70°F

Physical State: Liquid Semisolid _____ Solid _____

Layers: None Two _____ Multilayers _____

Free Liquids (%) 100 Precipitated Solids (%) < 1

Viscosity: Low Medium _____ High _____

Is Material Pumpable? Yes No _____ Polymerizable? Yes _____ No

Specific Weight (lbs/gal) 8.34 or Specific Gravity (g/cc) _____

Appearance clear (slight sediment) Odor NA

Flash Point (cc): Exact _____ ≤60°F _____ 61°F - 100°F _____ 101°F - 140°F _____
141°F - 200°F _____ >200°F

BTU/lb. NONE Ash (%) < 1% Water (%) > 99%

pH (avg) 7 Range _____ to _____

Reactivity (Reactive with): NA

Is Sample Available Upon Request?
Yes
No _____

Process Generating Waste

Rate of Generation one time Container Type/Size 5000 gal tanker EPA Waste No. NONE State Waste No. NONE

- Does this waste contain spent solvents? (F001 through F005) Y _____ N
- Is this waste listed for Dioxin as defined in 40 CFR 262.31? (F020 and F026-28) Y _____ N
- Is this waste INFECTIOUS? Y _____ N
Is it RADIOACTIVE? Y _____ N
Does it contain PCB's > 50 ppm? Y _____ N

4. If you answered yes to questions 1, 2 or 3, DO NOT CONTINUE.
Please contact your HOH Technical Sales Representative for assistance.

Metals (ppm)		Metals (ppm)		Metals (ppm)	
Total	TCLP	Total	TCLP	Total	Total
As _____	_____	CR (Total) _____	_____	Be _____	Si _____
Ag _____	_____	CR (Hex) _____	_____	Ti _____	Na _____
Cd _____	_____	Hg _____	_____	Sb _____	Ni _____
Ba _____	_____	Se _____	_____	S _____	Cu _____
Pb _____	_____	Other _____	_____	P _____	Zn _____

All below Regulatory Limits

Chemical Constituents (Must Total 100%)

Water, from groundwater	> 99%	_____	_____
Sediment	< 1%	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(from monitoring well development)

(Please Attach All MSDS's, Sample Analysis and Additional Info.)

Other: (Specify in PPM)

Free Cyanide 0 PCB's 0

Free Sulfide 0

Phenolics 0

Total Organic Halogens (%)

Fluorine 0 Bromine 0

Chlorine 0

Frequency of Generation

700-800 Gallons per _____ Week
 _____ Month
 _____ Tons per _____ Quarter
 _____ Drums per _____ Year
 _____ Other _____
 One Time

I certify that all information on this form is complete and factual (including attached information) and is an accurate representation of the known and suspected hazards of the waste to be disposed.

[Signature]
 Generator's Signature

9/5/86
 Date



NON-HAZARDOUS WASTE MANIFEST

1701 Vargrave St., Winston-Salem, NC 27107 • 910-727-4644 • Fax 910-727-8840

Bill to: Shamrock Env. Corp (Return manifest to K. Webb)
Job # 95-R0012

Manifest # 031501
Generator: Marine Corps Base, Camp Lejeune
IR Division - EMD Building 67
MCB Camp Lejeune, NC 28542

Date: 8/15/95
Phone No: (910) 451-5068
EPA ID No: NC 6170022580
Contact: John Riggs - MCB/EMD

Process which generated waste:

I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Date 8/15/95 Signature [Signature]

Description of Waste	Circle Form	Quantity	Circle Units	Container	
				No.	Type
Groundwater from development of monitoring wells	Liquid	5230	Gallons Drums	1	TT
(Lab 502 73TK615 73 Poly 01)	Sludge		Cu. Yards/Drums/Tons		

Transporter: Shamrock Environmental Corp.
PO Box 14987 Greensboro, NC 27415
Vehicle License Tag Number(s) LE 5D16 NC

Unit Numbers: RT3/RT2
Phone No: (910) 375-1989
EPA ID No: NC 0000942144
Container: tanker RT2

I certify that the specified waste was transferred in a registered (licensed) vehicle to the disposal treatment, storage, or disposal facility named below and was accepted.

[Signature] 8/15/95 [Signature] 8/15/95
Pick-up Driver's Signature Date Delivering Driver's Signature Date

Facility: HOH Corp
1701 Vargrave St.
Winston-Salem, NC 27107

Phone No: 910-727-4644
Permit No: 34-11TP
Contact: David Bryant

Handling Method: _____

I certify that the Transporter above delivered the specified material to this facility and was accepted and properly handled in the above manner. We are authorized and qualified by the State of NC to handle this material.

Date 8/15/95 Signature [Signature]

ORIGINAL - Destination Retain WHITE COPY 2 - Return to Generator YELLOW COPY 3 - Transporter Retain PINK COPY 4 - Generator Retain GREEN



NON-HAZARDOUS WASTE MANIFEST

1701 Vargrave St., Winston-Salem, NC 27107 • 910-727-4644 • Fax 910-727-8840

Bill to : Shamrock Environmental Corp.
Job # 95-R0012

Manifest # 081601
Generator: Marine Corps Base, Camp Lejeune
IR Division - EMD Building 67
MCB Camp Lejeune, NC 028542

Date: 8/16/95
Phone No: (910) 451-5068
EPA ID No: NC 6170022590
Contact: John Riggs - MCB/EMD

Process which generated waste:

I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Date 8/16/95 Signature [Signature]

Description of Waste	Circle Form	Quantity	Circle Units	Container	
				No.	Type
Groundwater from development of monitoring wells (see ID 73TK615)	Liquid	1,448	Gallons/Drums	1	TE
	Solid		Cu. Yards/Drums/Tons		
	Gas		Pounds		
	Sludge		Cu. Yards/Drums/Tons		

Transporter: Shamrock Environmental Corp.
PO Box 14987 Greensboro, NC 27415
Vehicle License Tag Number(s) LX-1561

Unit Numbers:
Phone No: (910) 375 1939
EPA ID No: NC 0000 942144
Container: VT-2 VAC TRUCK

I certify that the specified waste was transferred in a registered (licensed) vehicle to the disposal treatment, storage, or disposal facility named below and was accepted.

[Signature] 8-16-95 [Signature]
Pick-up Driver's Signature Date Delivering Driver's Signature Date

Facility: HOH Corp
1701 Vargrave St.
Winston-Salem, NC 27107

Phone No: 910-727-4644
Permit No: 34-11TP
Contact: David Bryant

Handling Method: _____

I certify that the Transporter above delivered the specified material to this facility and was accepted and properly handled in the above manner. We are authorized and qualified by the State of NC to handle this material.

Date 8/18/95 Signature [Signature]

ORIGINAL - Destination Retain WHITE COPY 2 - Return to Generator YELLOW COPY 3 - Transporter Retain PINK COPY 4 - Generator Retain GOLD DENRON