FILE FOLDER

DESCRIPTION ON TAB:

Waste Oil 1987

Outside/inside of actual folder did not contain hand written information

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Confidential Records Management, Inc. New Bern, NC 1-888-622-4425 9/08

Note - Mrs. Bills harmit seen

DEPARTMENT OF THE NAVY

Memorandum

DATE: 16 NOV 87

PNAV 5216/144A (Rev. 8-81)

S/N 0107-LF-052-2320

FROM: Supvy Chemist

TO: Supvy Ecologist

SUBJ: BASE MAINTENANCE LETTER 6280 DTD 6 NOV 87; COMMENT ON

1. <u>Background</u>: On 15 Sep 87, Tom Barbee and I sampled STT-64, STT-65 and STT-66. The full signs were on all three tanks. I told Pete Avant that I sampled those tanks. D. Gurganus on 19 Oct 87 admitted that they removed some water and added oil to STT-64 and STT-65 but they were now through with them. He added they were still using STT-66.

2. Discussion:

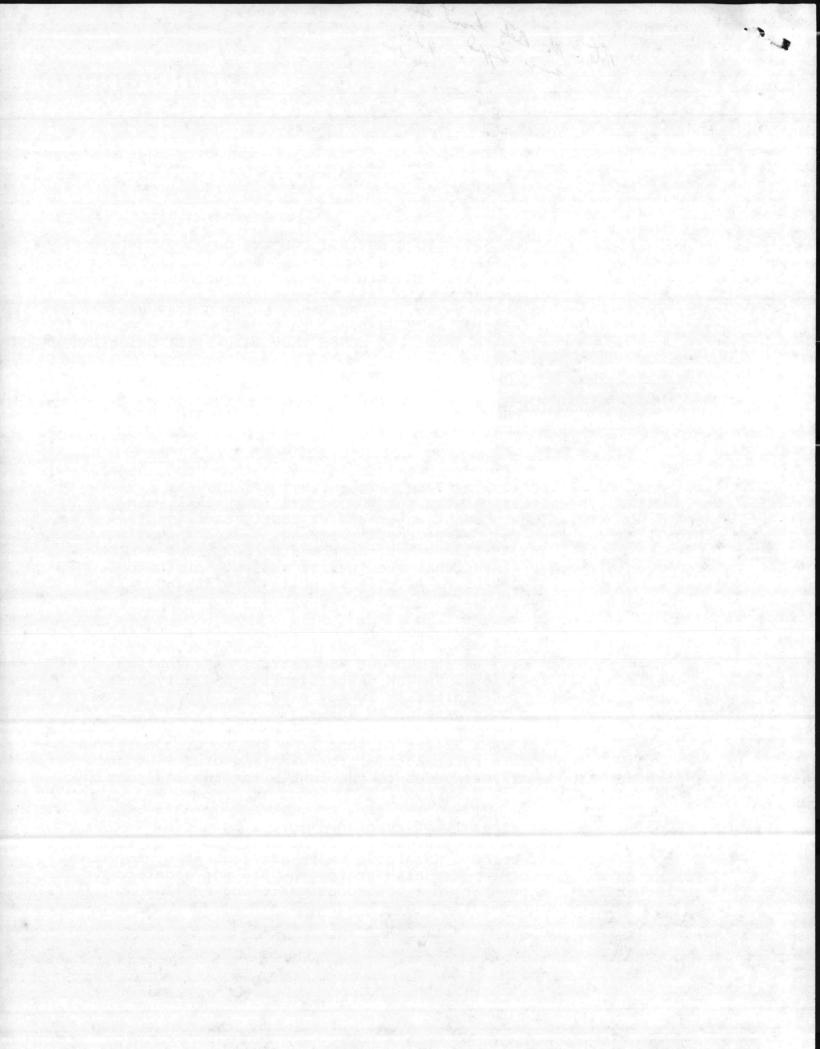
a. Reference (a) is a 19 Oct 87 memo from Dave Bullock (HMDO, BMD) to Sammy Gwynn (HMDC, MCB) requesting analysis of tanks STT-64 and STT-65.

b. Reference (b) is our letter of 19 Oct 87 that contained the first results of the 15 Sep 87 sampling of STT-64, STT-65, STT-66 and AS-419. These results were the TOX of all four tanks, and flashpoint, BTU, BS&W, percent water and viscosity of the three tanks at Tarawa Terrace. These results already showed the oil in STT-64, STT-65 and AS-419 as hazardous waste fuel based on TOX. Reference (b) futher states that the "metals analysis of these three tanks (STT-64, STT-65, & STT-66) is still pending and will be forwarded when received." They were received 9 Nov 87.

c. Camp Lejeune is not an uathorized treatment facility for hazardous waste, therefore, if at any point of accumulation of oil it is determined to be a HW it can get "no better." Resampling and analysis will not change the HW classification and only cost more money. Since STT-66 initially is not a HW fuel, then resampling would be necessary to make sure no HW was added.

d. Reference (c) is a 26 Oct 87 memo from BMO to Director, NREAD repeating the request in reference (a) for sampling of STT-64 and STT-65 because more oil was added to the tank after the analysis in reference (b).

(Personal Input: As a result of reference (c), I contacted Nadine Hipp (DRMO) on 27 Oct 87 and informed her the analysis of STT-64 and STT-65 showed it to be a hazardous waste and requested what more information did she need. Ms. Hipp stated she had not understood that the analysis showed it as a hazardous waste and she saw no need for further sampling.)



e. Reference (d) is a 30 Oct 87 letter from Dir, NREAD to BMO stating that per a phone conversation between Ms. Hipp and Ms. Betz it was determined no further sampling is necessary of STT-64 and ST-65. BMO then asks NREAD to sign the DD-1348-1 documents for the waste oil in STT-64 and STT-65 and to attach appropriate analysis.

f. Reference (b) states that the TOX for AS-419 was provided for information.

g. Reference (e) is a 16 Oct 87 letter from CG, MCB to DRMO. It recommended that AS-419 be disposed of as a HW fuel based on the VOC data contained within. It requested that DRMO advise of additional testing required.

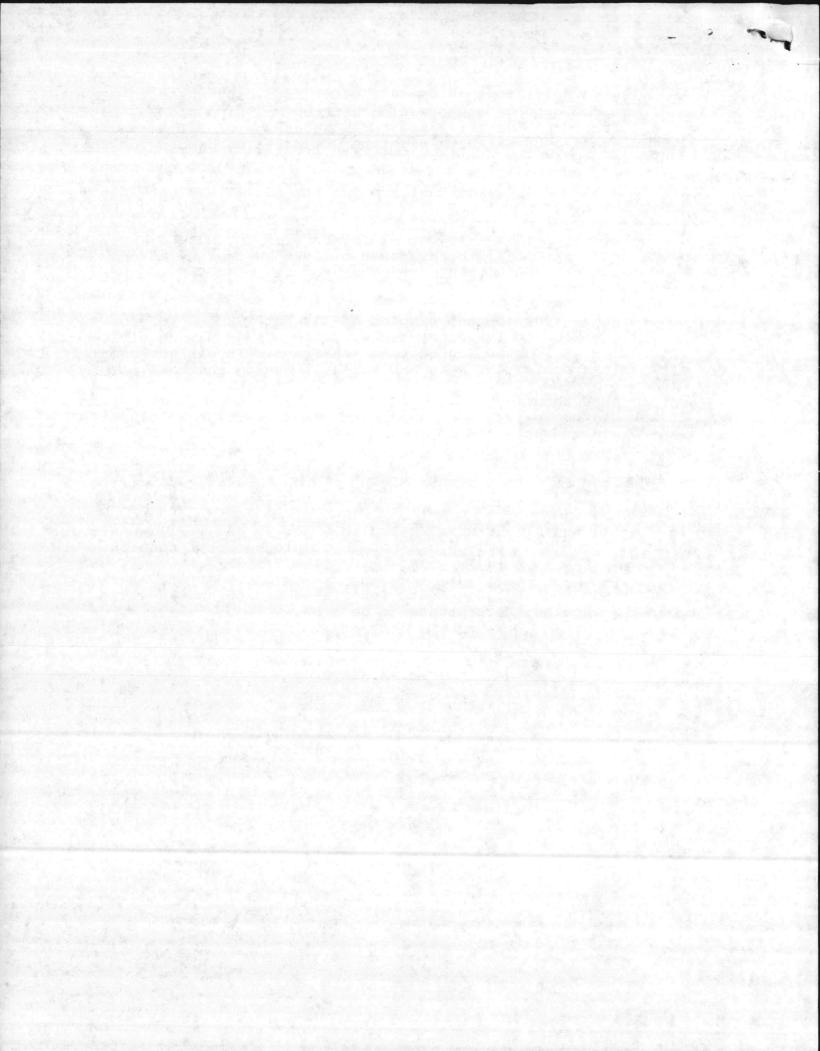
(Personal Input: The lab has sampled AS-419 for TOX and VOC to see how it compared to the other tanks, since AS-419 was receiving oil after MCAS-NR started segregating the freon. It was not sampled for disposal purposes. We knew BMD was still using the tank. But since it showed TOX and Freon high enough for HW classification, ultimately DRMO whould have to dispose of it as a HW fuel. That is why it was stated in reference (e) that "[AS-419] tank be disposed of as a hazardous waste fuel." BMD request for analysis of AS-419 is dated 28 Oct 87.)

h. BMO requests that either NREAD or Ground Safety Office sign the DD 1348-1 for AS-419.

i. AS-419 and STT-66 were resampled 6 Nov 87 and will be mailed 16 Nov 87. Turn-in of STT-66 can not be completed until results are received.

j. I recommend that documents for STT-64 and 65 and AS-419 be submitted showing the contents to be a HW.

E. A. BETZ



OPNAV 5715/144/ (Rev. 8-81) S/N 0107-LF-052-2320

DEPARTMENT OF THE NAVY

Memorandum READ T-6245

DATE: 16 NOV 87

FROM: Supvy Chemist

TO: Supvy Ecologist

SUBJ: BASE MAINTENANCE LETTER 6280 DTD 6 NOV 87; COMMENT ON

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2. Discussion:

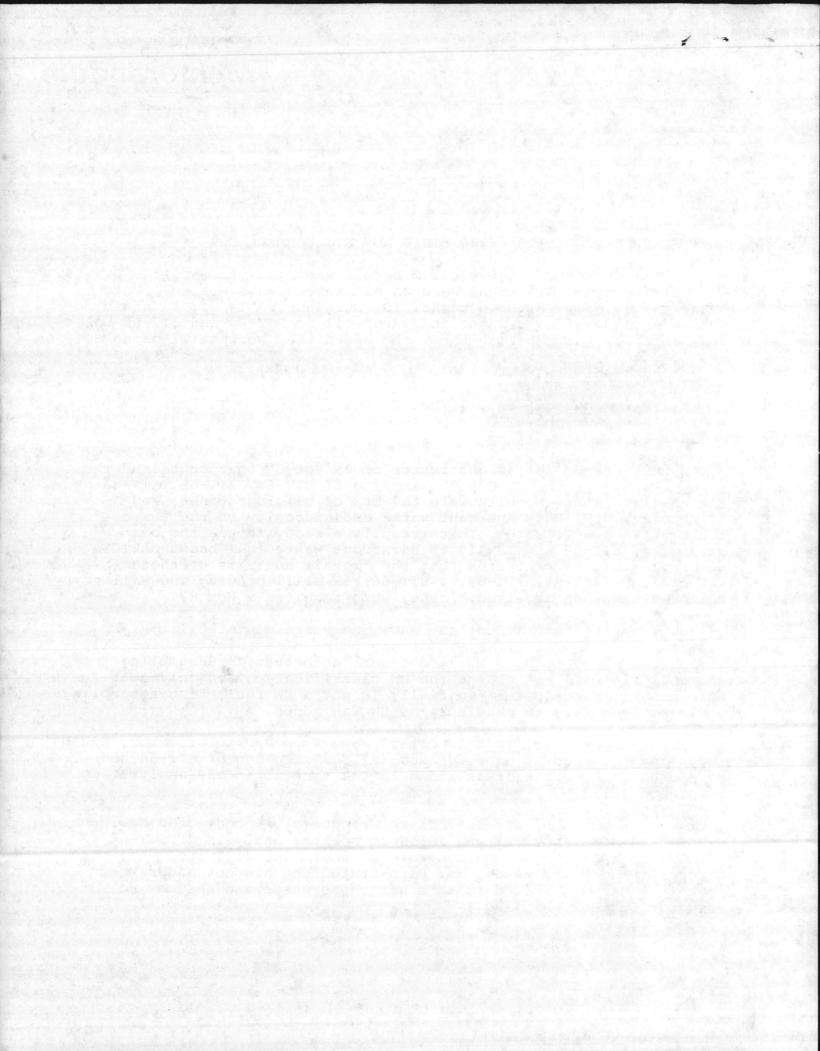
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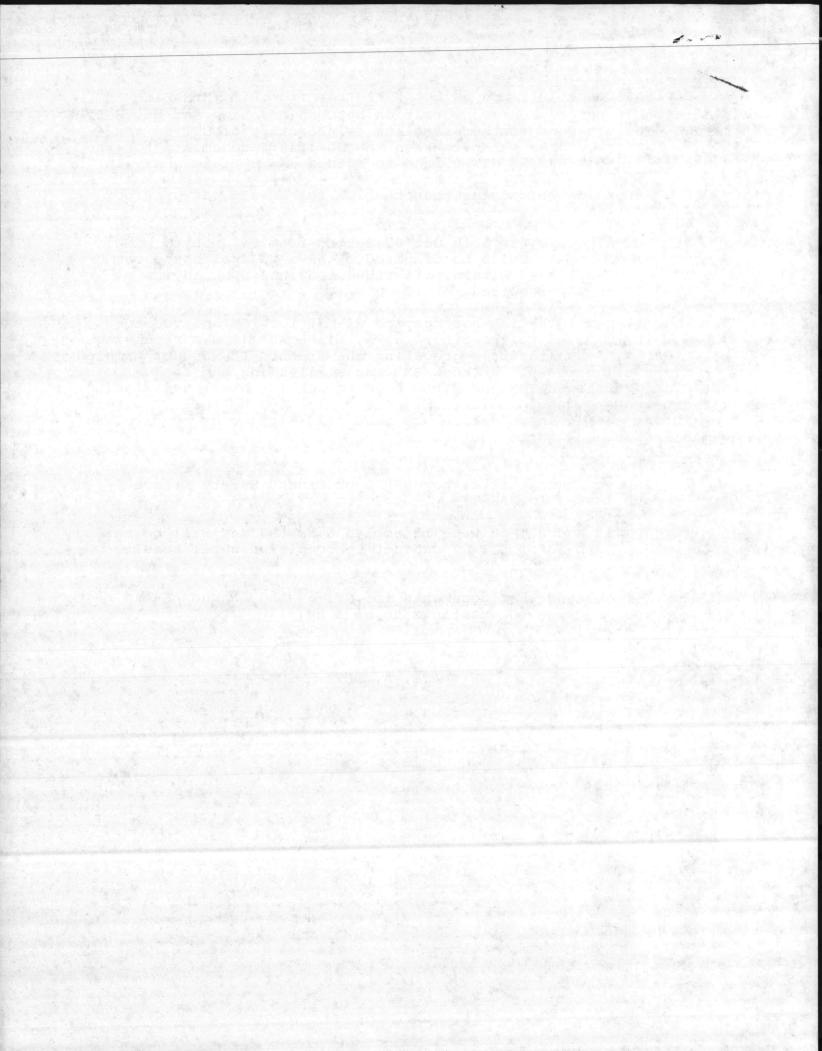
(Personal Input: The lab has sampled AS-419 for TOX and VOC to see how it compared to the other tanks, since AS-419 was receiving oil after MCAS-NR started segregating the freon. It was not sampled for disposal purposes. We knew BMD was still using the tank. But since it showed TOX and Freon high enough for HW classification, ultimately DRMO would have to dispose of it as a HW fuel. That is why it was stated in reference (e) that "[AS-419] tank be disposed of as a hazardous waste fuel." BMD request for analysis of AS-419 is dated 28 Oct 87.)

h. BMO requests that either NREAD or Ground Safety Office sign the DD 1348-1 for AS-419.

i. AS-419 and STT-66 were resampled 6 Nov 87 and will be mailed 16 Nov 87. Turn-in of STT-66 can not be completed until results are received.

j. I recommend that documents for STT-64 and 65 and AS-419 be submitted showing the contents to be a HW.

E. A. BETZ





UNITED STATES MARINE CORPS BASE MAINTENANCE DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542-5000

IN REPLY REFER TO: 6280 MAIN 06 NOV 1987

From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs Division

Subj: DISPOSAL OF HAZARDOUS WASTE/WASTE OIL

- Ref:
- (a) BMain HMDO memo of 19 Oct 87
 - (b) Dir NREAD 1tr 6241/2 NREAD of 19 Oct 87
 - (c) BMO 1tr 6280 MAIN of 26 Oct 87
 - (d) Dir NREAD 1tr 6241/2 NREAD of 30 Oct 87
- (e) CG MCB ltr 6241/2 NREAD of 16 Oct 87
- Encl: (1) DD Form 1348-1, Contents of Tank STT-64
 (2) DD Form 1348-1, Contents of Tank STT-65
 (3) DD Form 1348-1, Contents of Tank AS-419

1. Reference (a) requested that oil in tanks STT-64 and STT-65 be sampled and analyzed so that turn-in documents could be prepared. Reference (b) provided only partial analysis required by RCRA and recommended by ENSAFE for disposal of used oil. Analysis for total halogens and flashpoint was provided but ppm for arsenic, cadmium, chromium and lead were not included. Moreover, reference (b) states that oil was added to both tanks after samples were taken. That fact alone would make the analysis provided to be suspect.

2. Reference (c), after discussing these analyses with DRMO, requested another analysis after the tank had been secured. We believe that request is still valid and the analysis still required.

3. Reference (d) advises that further analysis is not needed and states that BMO should submit disposal documents as soon as possible. In order to resolve this dilemma, we have prepared disposal documents for your signature for STT-64 and STT-65. If it is your belief that sufficient analysis has been done on the oil in these two tanks, please sign the documents at enclosures (1) and (2). You may attach whatever analysis you consider appropriate from your files, or we will provide to you the analyses that were forwarded to us. You may have the documents delivered to DRMO, in which case you should provide us a copy; or, you may return them to us and we will deliver them.

4. The same dilemma exists with the "third waste oil tank" at MCAS New River. Reference (b) provided only TOX for the oil in this tank and stated that JCT Environmental Consultants, Inc. Report #87-444, attached to reference (e), contained the volatile organic chemical analysis. Again, ppm for flashpoint, arsenic, cadmium, chromium and lead have been ignored. Additionally, reference (e) recommended disposal while the tank was still being 4 YW R U

6281

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SUPPLY DISPOSAS OF BASARDOUS MEDE WEEDS WEEDS

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Sec. 3

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Baolt (1) 00 Form 1248-1, Contact, Unit ATT-14 (2) 00 Form 1849-1, Contact: the SPT-55 (3) 01 Form 1849-1, Contact: of The AG-419 (3) 01 Form 1849-1, Contact: of The AG-419

3. P. Recepte (a) Sequeezed Link of the tests STP-64 and STP-64 on seapled at an lyzed to that number domments and the prepared. Receptors (b) provided only actual analysis indiced by SCR: and recommended of SNAFE for disposal of model off. Analysis for boral bilogian and Clashpoint was provided ont up a for isonald, sedelum, chrosic and isad were not included. Moreover, clastons (b) states threed is added to both tests atted samples nero takes. That for any sould make the analysis off dided to be suspect.

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filled. Again, I believe the analysis to be suspect, in addition to being incomplete. They provide parameters for only one of six properties for which RCRA requires analysis.

5. We are, however, interested in resolving this problem. To this end, we have prepared enclosure (3) without indicating who should sign it. You may sign it or you many request your counterpart at the Air Station to sign it. Please follow the same guidelines mentioned in paragraph 3 pertaining to attaching analysis, providing copies to us, and delivery to DRMO.

6. Your cooperation in resolving this matter is appreciated.

M. G. LILLEY

Copy to: DRMO Sequera discussion en maragones ansire unemu ore -

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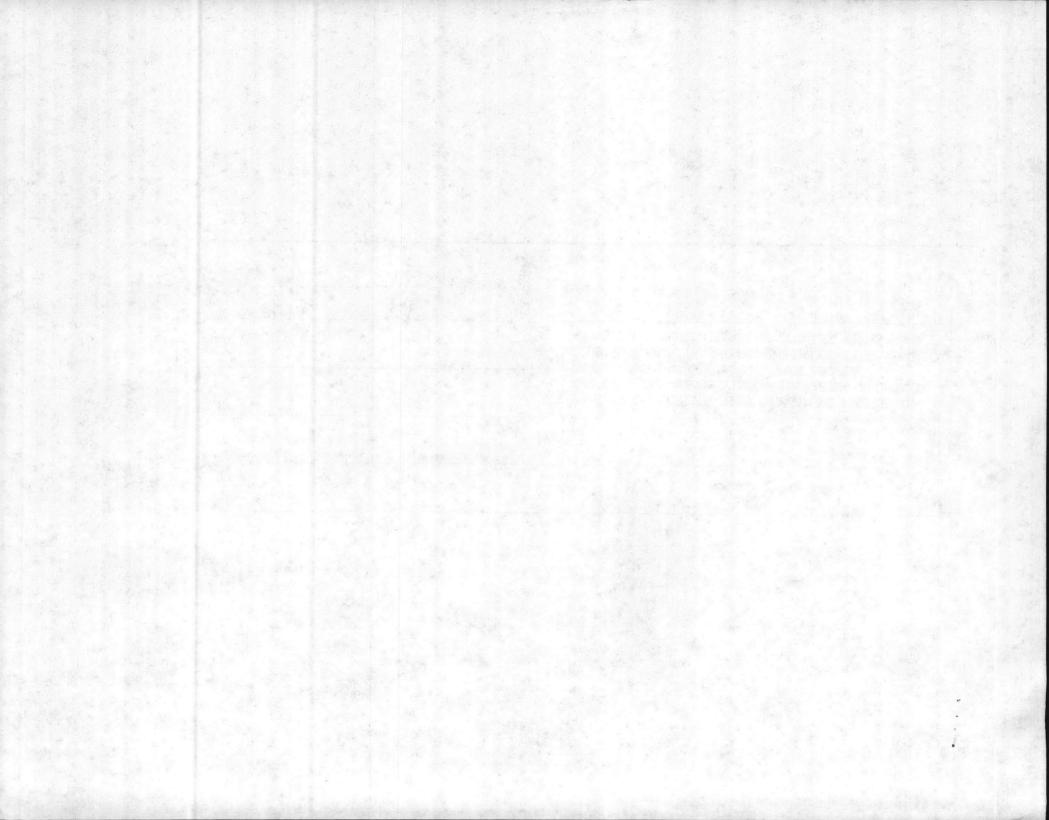
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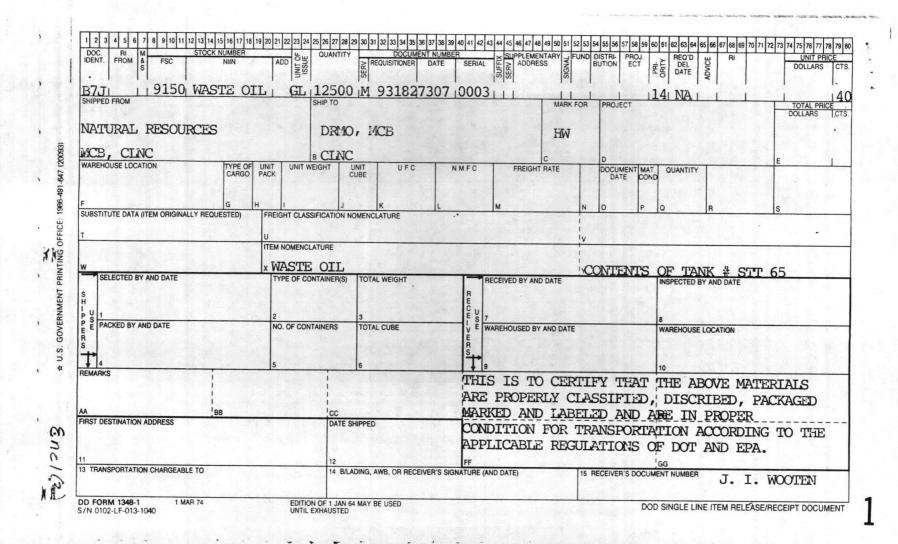
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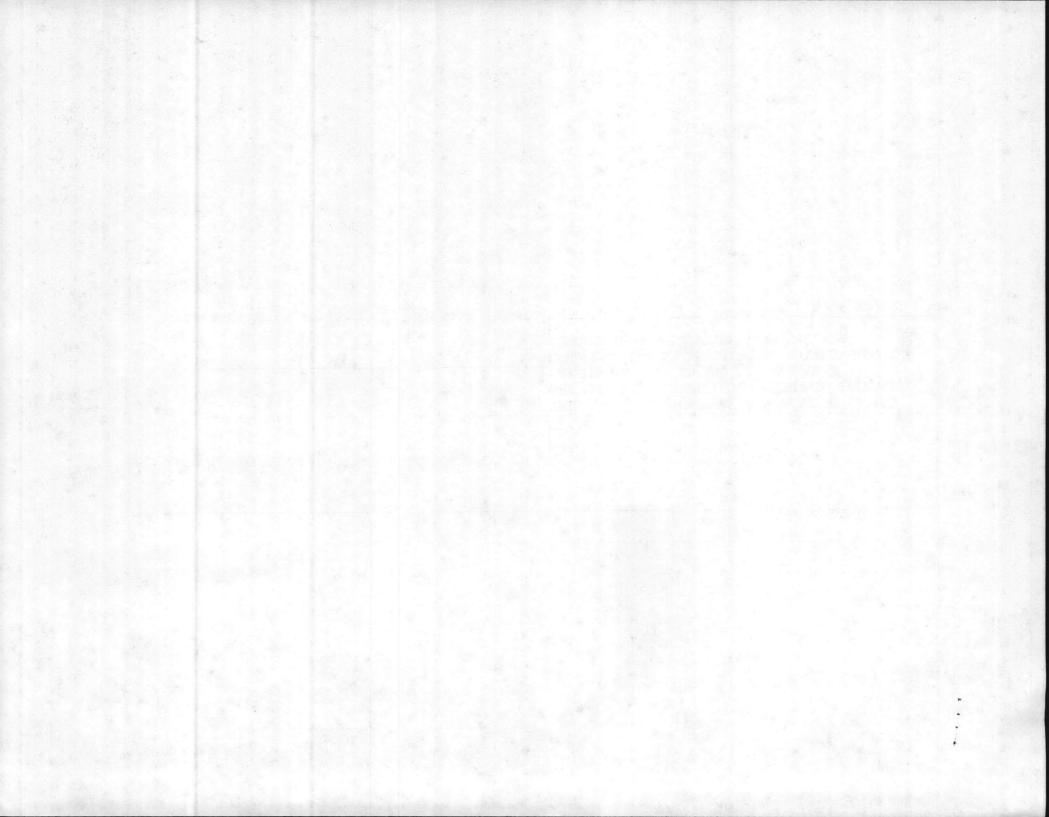
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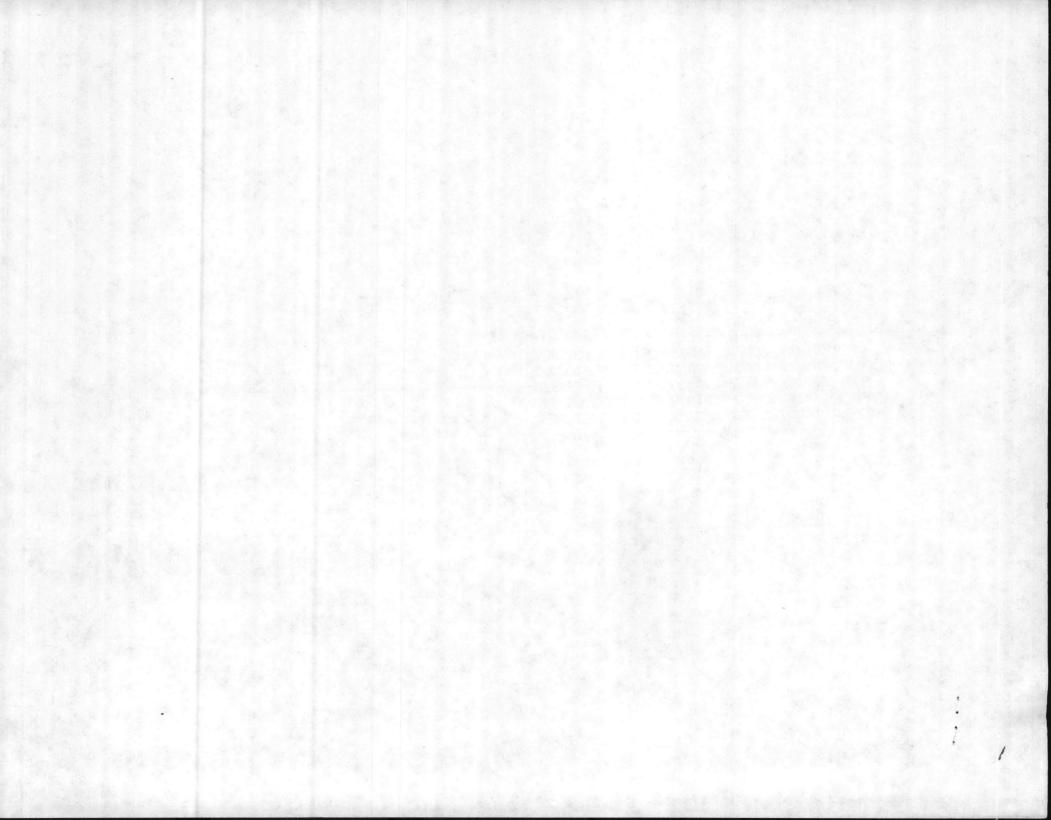
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OPNAV 5216/1448 (Rev. 8-81) \$/N 0107-LF-062-2322 Memorandum

DATE: 5 Nov 87

FROM: HMDO, Base Maintenance Division

TO: Head, Natural Resources

SURJ: Funding Document for Sampling of Waster Oil Storage Tanks

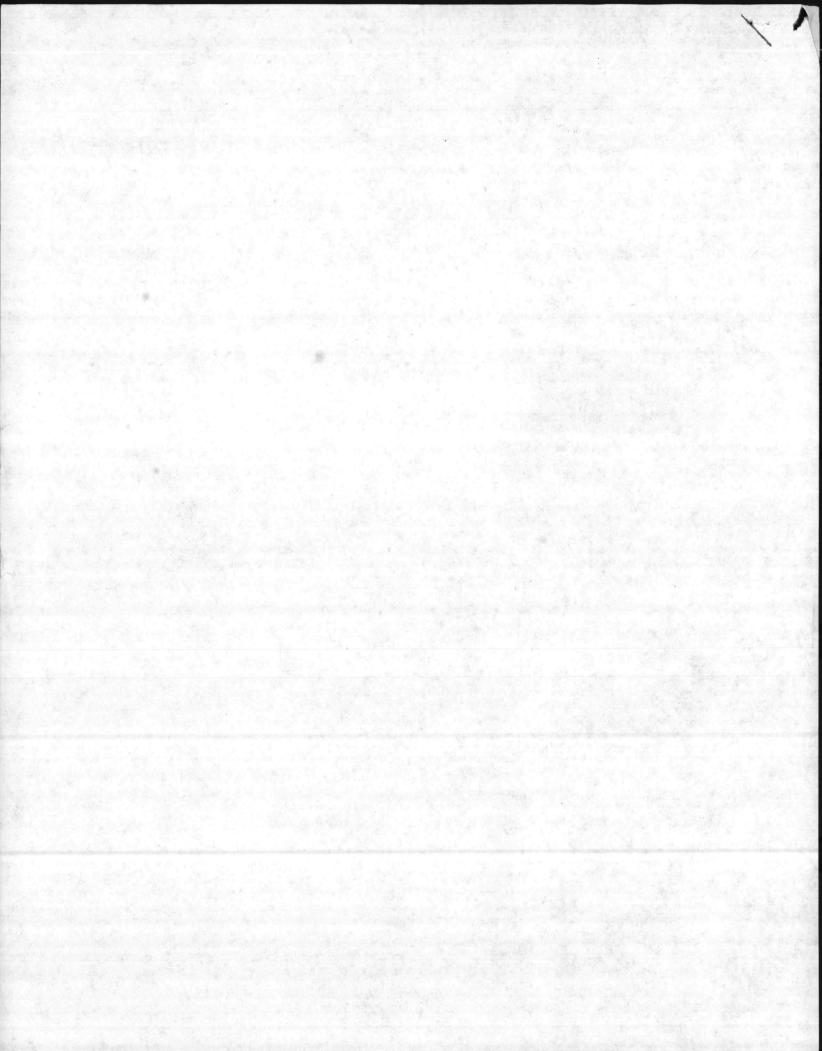
Ref: (a) Your handwritten memo dated 4 Nov 87

1. Your memo implied that Col. Lilley wanted to review all request for analysis of oil and other hazardous waste. Discussion with Col. Lilley reveal that he does not desire to review the request for analysis, however, he does want to review all analysis results.

2. The funding Job Order Number to be charge is the standing job order number AM823K8112392T as appears in the Base Maintenance job order number booklet.

Varia K. Bullock

1



6241/2 NREAD 19 Oct 87

- From: Director, Natural Resources and Environmental Affairs, Marine Corps Base, Camp Lejeune To: Base Maintenance Officer, Marine Corps Base, Camp Lejeune
- Subi: WASTE OIL TANKS; ANALYSIS OF
- Ref: (a) CG MCB CLNC 1tr 6241/2 of 16 Oct 87
- Encl: (1) JTC Environmental Consultants, Inc. Rept. No. 87-444 Addendum
 - (2) BMAIND, HMDO memo of 19 Oct 87
 - (3) JTC Environmental Consultants, Inc. Rept. No. 87-441
 - (4) JTC Environmental Consultants, Inc. Rept. No. 87-441 Addendum

1. The following data is forwarded for your information. Enclosure (1) contains the Total Organic Halogen analysis of the third waste oil tank at the Marine Corps Air Station, New River (AS-419). Reference (a) contained the volatile organic chemical analysis on AS-419.

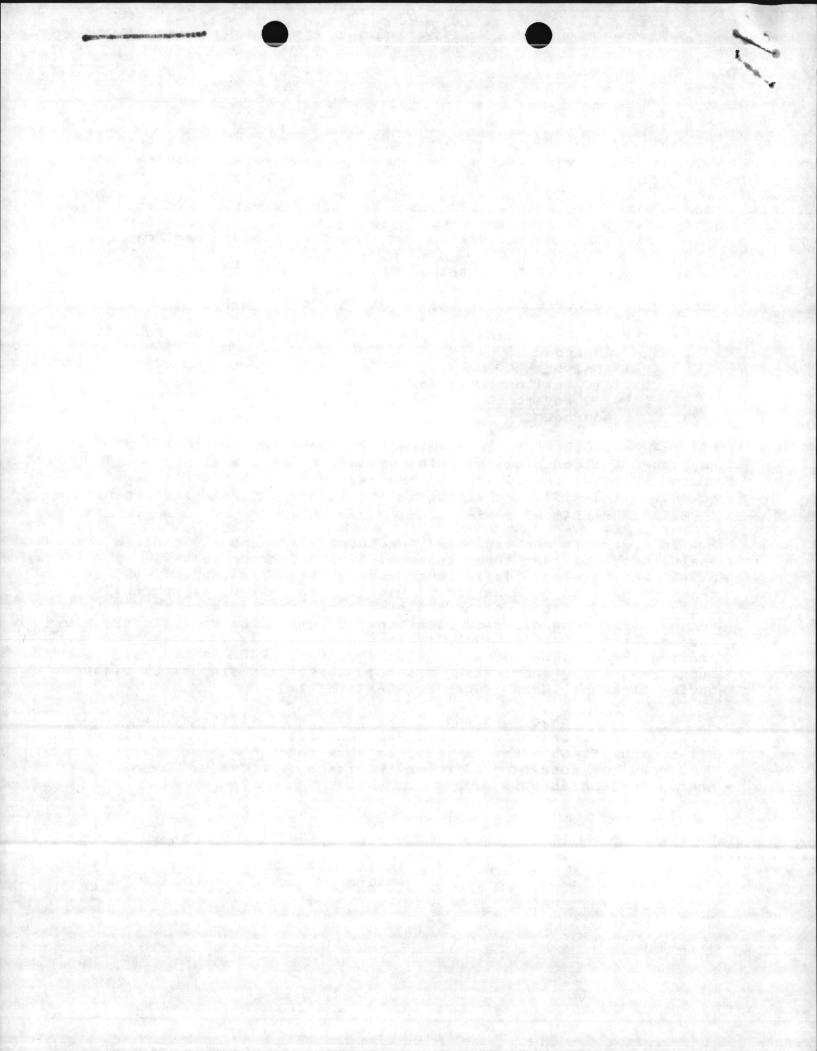
2. In regard to enclosure (2), enclosures (3) and (4) contain analysis of the last three tanks at Tarawa Terrace (STT-64, STT-65 and STT-66). It is recommended that STT-64 and STT-65 tanks be managed as a hazardous waste. Tank STT-66 is currently being filled. Based on the enclosed data, the contents of STT-66 can be managed as off-specification used oil. The volatile organic chemical and metals analysis of these three tanks is still pending and will be forwarded when received. Tank STT-66 will require resampling and testing prior to initiating disposal. Please advise Director, NREAD, when STT-66 is filled.

3. By copy of this memorandum, the Defense Reutilization and Marketing Officer (DRMO) is advised that oil was added to both STT-64 and STT-65 after the samples were taken. Please advise if DRMO requires retesting of these two tanks. POC is Mr. Danny Sharpe, extension 5003.

> PETER E. BLACK Acting

Copy to: DRMO AC/S FAC

BCC : Lab (2)



Addendum JTC DATA REPORT # 87-444 LABORATORY ANALYSIS ON NAVAL SAMPLES CONTRACT #N62470-86-C-8754

CASE # 138

PREPARED FOR:

DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511-6287

PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC. 4 RESEARCH PLACE, SUITE L-10 ROCKVILLE, MARYLAND 20850

OCTOBER 12, 1987

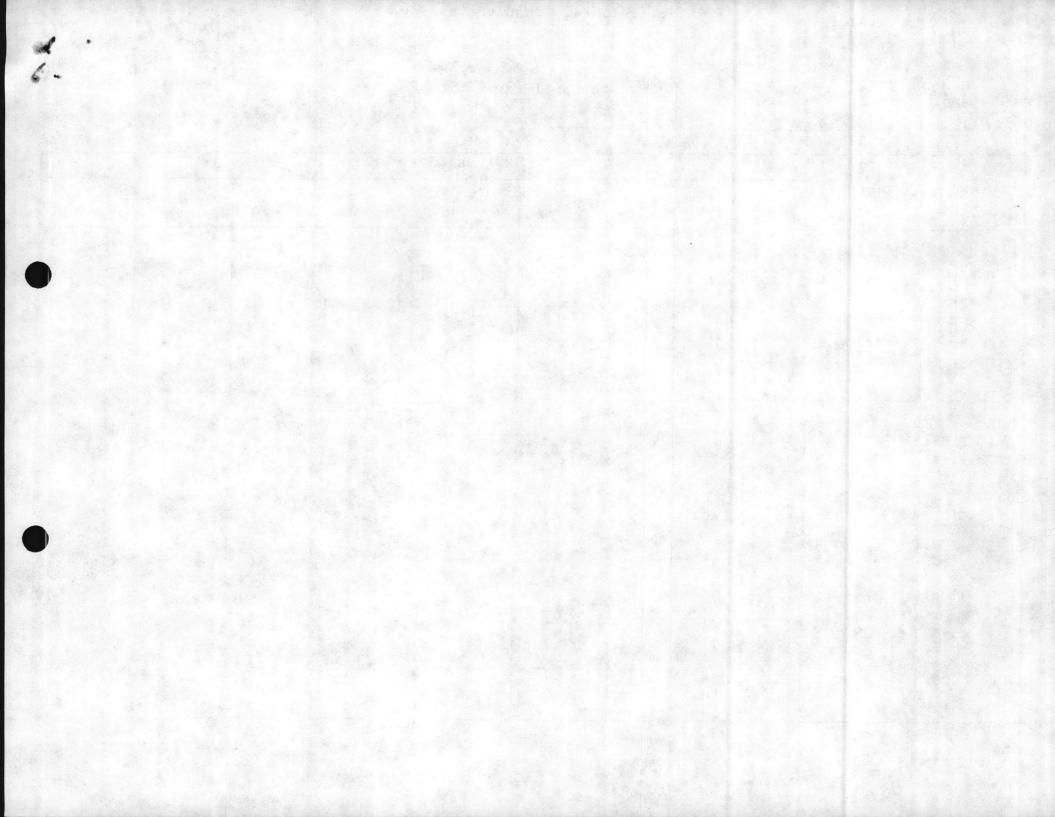
ance,

Ann E. Rosecrance Laboratory Director





		J	C Environ	mental Cons	sultants, I	nc.			
Location:	Camp Lej	eune_	1	Date of Red	ceipt: <u>9-</u>	23-87 1	lurnaround	: 15 dai	15 .
Date: 10-12-	-87 Cas	se No. 13	8 Add	to Naval 1	Facilities	Engineerir	ng Command	, Norfolk,	Virginia 🎽
JTC Data Rej	port No. 87	1-444	_ Table	10/1					
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						18			



OPNAV 5216/1448 (Rev. 8-81) \$/N 01024LF-062-2322





DATE: 19 OCT 87

FROM: HMDO, BASE MAINTENANCE DIVISION

TO: HMC, NATURAL RESOURCES

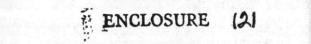
SUBJ: ANALYSIS OF OILS CONTAINED IN TANKS STT-64 AND STT-65

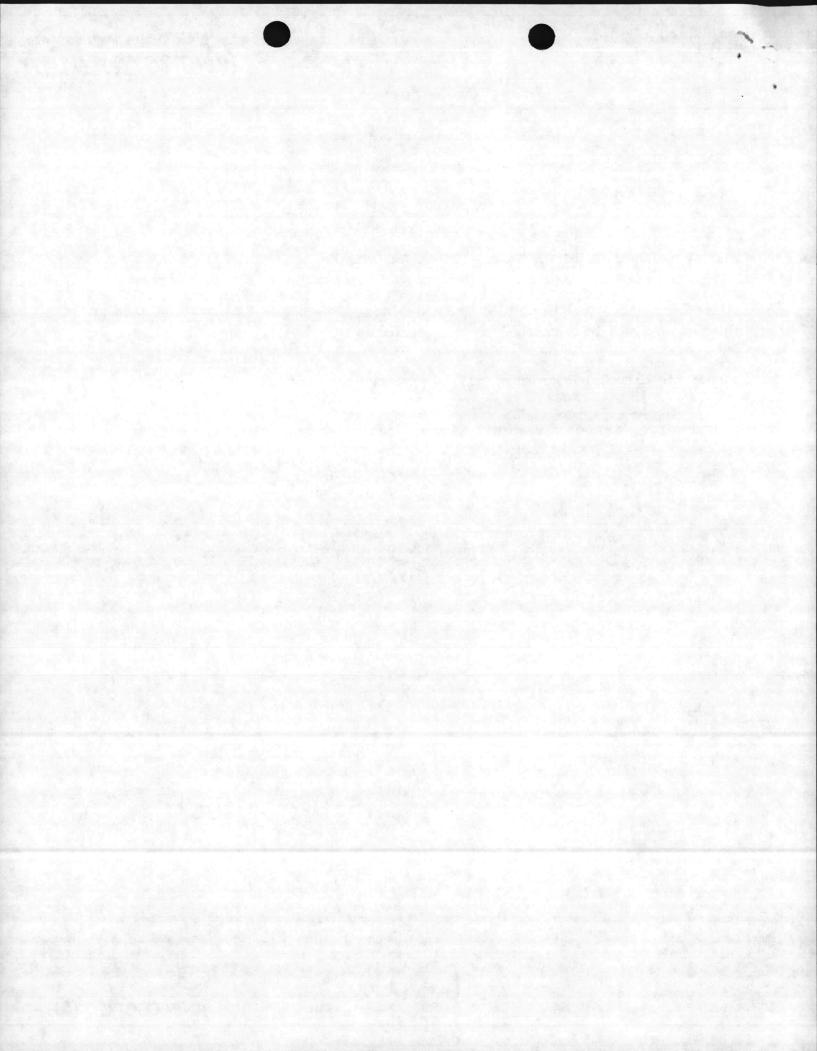
1. It is requested that these two tanks be sampled, analysis conducted, and two copies of the completed analysis be furnished to this office.

2. The appropriate disposal documents will be prepared upon receipt of the completed analysis.

3. Storage space for storage of used oil is very limited at this time, therefore it is requested that this request be expodited.

WILL BULLOCK







19 October, 1987

Transportation General Voreman

Property Management Section

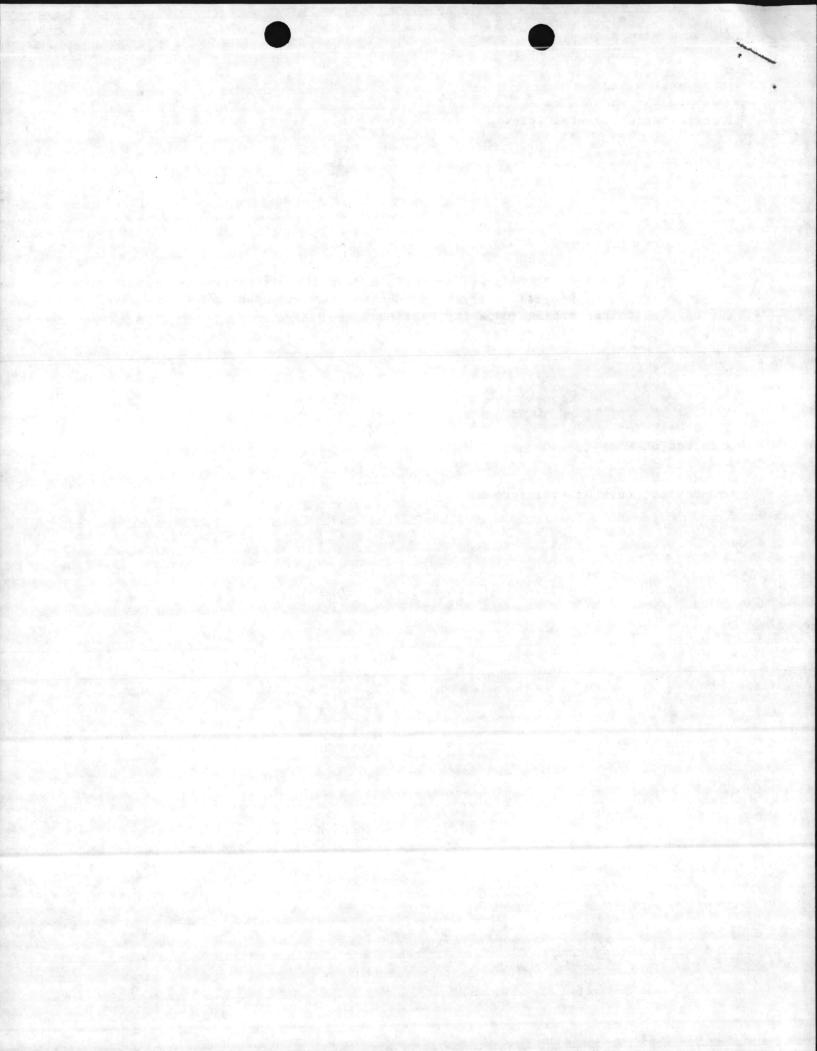
Waste Oil

Tank #STT-64 and Tank #STT-65 are at maximum capacity. It is requested that these two tanks be Sampled, Analysis conducted, and Disposed of immediately due to the limited storage capacity available.

......

D. Gurganus

Blind Copy To: Director of NREA BMO Director M & R Ground Structure General Foreman



Partial Results JTC DATA REPORT # 87-441 LABORATORY ANALYSIS ON NAVAL SAMPLES CONTRACT #N62470-86-C-8754 CASE # 136 OCT 1987

9

PREPARED FOR:

DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511-6287

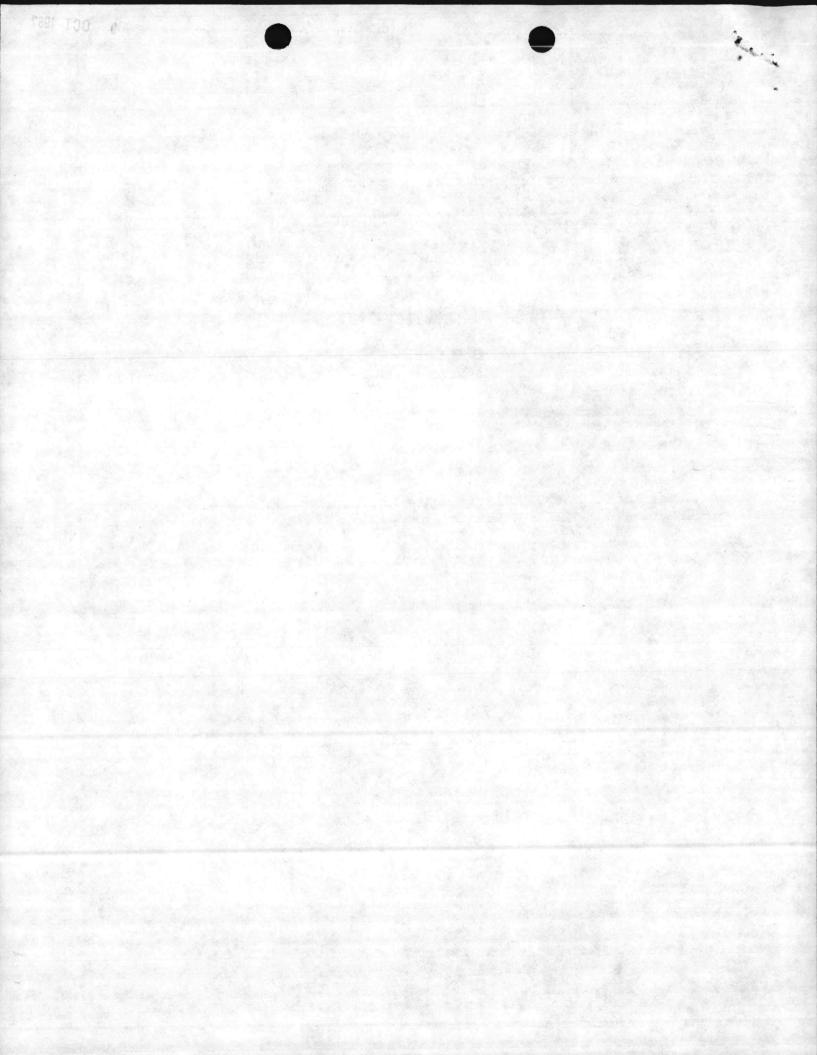
PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC. 4 RESEARCH PLACE, SUITE L-10 ROCKVILLE, MARYLAND 20850

OCTOBER 5, 1987

Ann E. Rosecrance

Laboratory Director

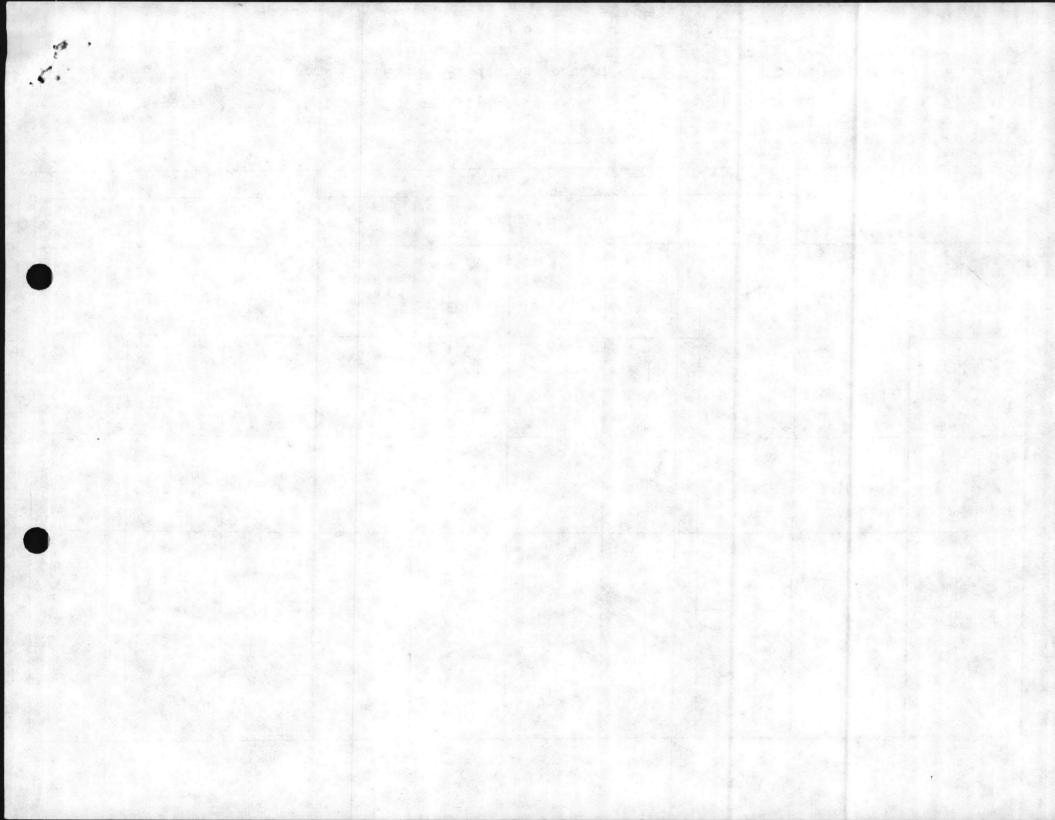


JTC Environmental Consultants, Inc.

Location: <u>Camp Lej</u> Date: <u>10-5-87</u>	eune	Date of Receipt: <u>9-21-87</u> Turnarow	und: 10 days
Date: 10-5-87	Case No. 136	to Naval Facilities Engineering Comm	and, Norfolk, Virginia
JTC Data Report No	87-441 1	able_10/1_	

NAVY	JTC	ANALYSIS PARAMETER							
SAMPLE ID	SAMPLE ID	PCB mg/g	Flashpoint						
87-81 STT-64	61-0979	<i>√</i> 5	28						•
87-82 5π-65	61-0980	<5	35						
87-83 511-64	61-0981	<5	30						

•



Addendum

JTC DATA REPORT # 87-441 LABORATORY ANALYSIS ON NAVAL SAMPLES CONTRACT #N62470-86-C-8754

CASE # 136

PREPARED FOR:

DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511-6287

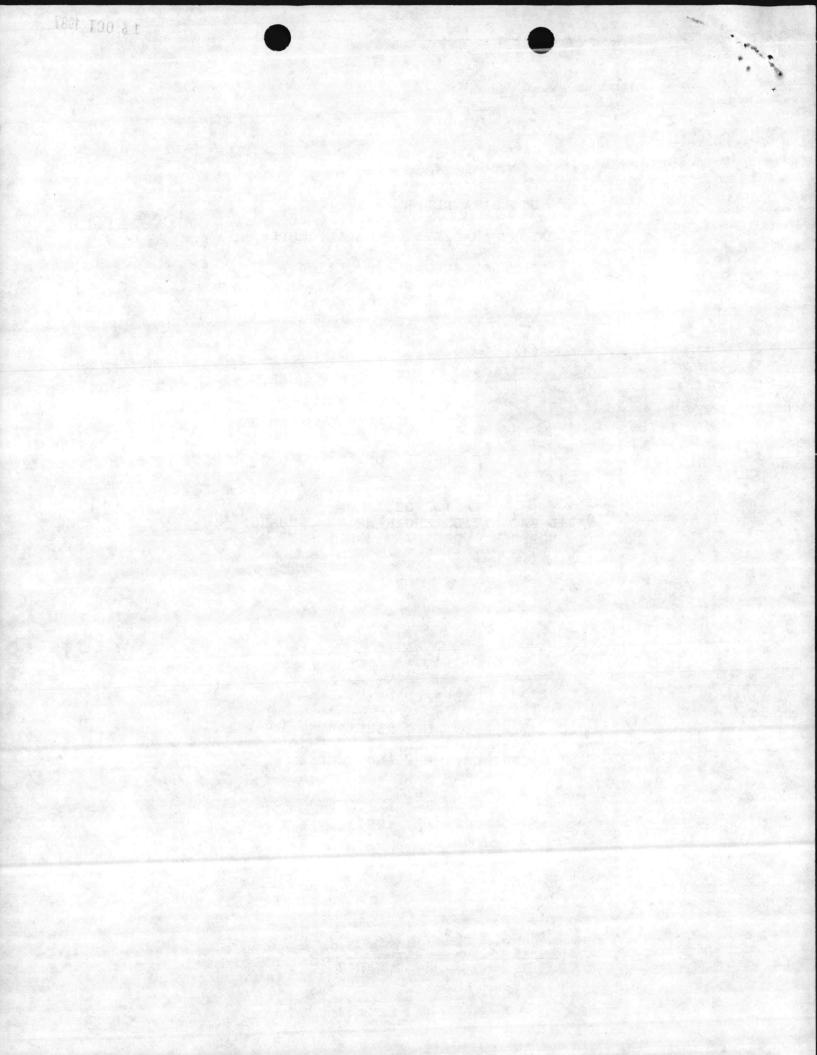
PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC. 4 RESEARCH PLACE, SUITE L-10 ROCKVILLE, MARYLAND 20850

OCTOBER 12, 1987

ann E. Roseciance

Ann E. Rosecrance Laboratory Director

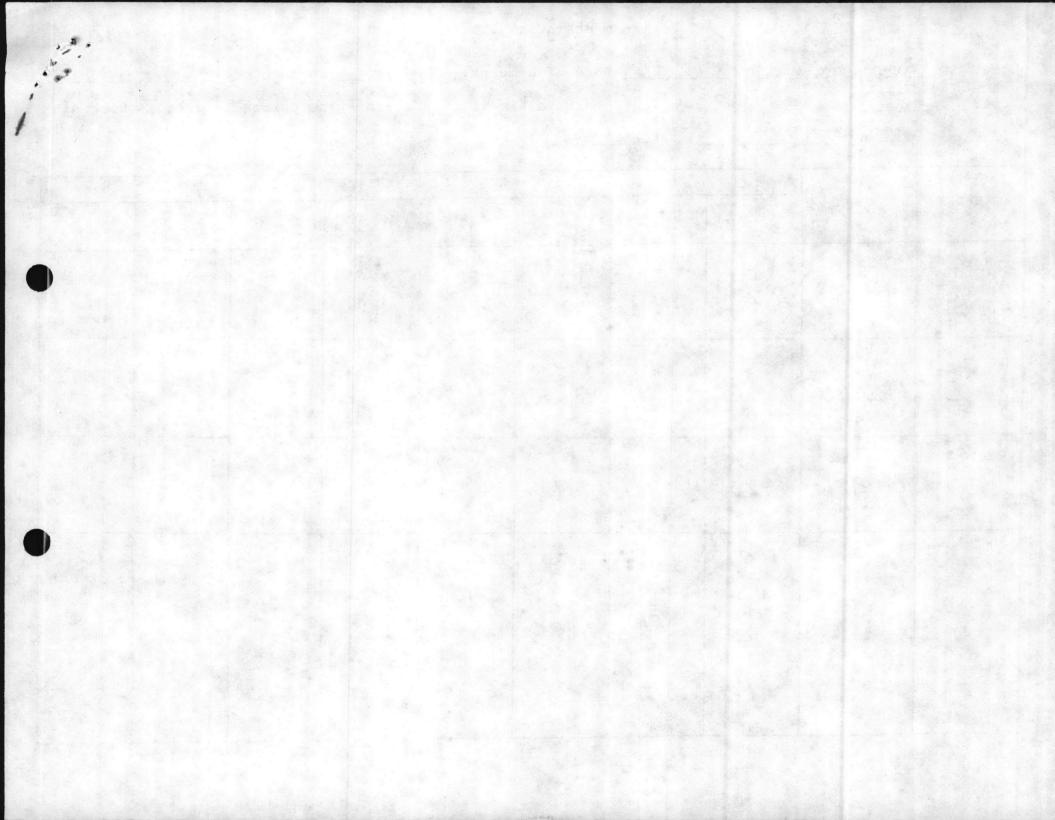


JTC Environmental Consultants, Inc.

Location: Camp Lej	eune		Date of Re	eceipt: 9-	21-87 Tu	rnaround:	15 day	15 .
Date: 10-12-87	Case No. 12	36 Add	_ to Naval	Facilities	Engineering	Command,	Norfolk,	/ Virginia
JTC Data Report No	87-441	Table	10/1					

. t.

NAVY	JTC	ANALYSIS PARAMETER							
SAMPLE SAMPLE ID ID	тох 70	BTU per 1b.	B5 4 W 70	% water	Viscosity e.200 FJ				
87-81 Sπ-64	61-0979	0,23	17,000	22.0	10.3	41.4			
87-82 5π-65	61-0980	0,20	19,100	0.6	0,05	37.2			
87-83 511-66	61-0981	<0.05	19,100	1.7	1.4	35.5	Maria P.		



6241/2 NREAD OCT 1 6 1987

From: Commanding General, Marine Corps Base, Camp Lejeune To: Defense Reutilization and Marketing Officer, Defense Logistics Agency, Lejeune, Camp Lejeune, NC 28542-5000

Subj: WASTE OIL STORAGE TANKS; ANALYSIS OF

Ref: (a) BO 6240.5 (b) Dir NREAD 1tr 6241/2 of 4 Jun 87

Encl: (1) JTC Environmental Consultants, Inc. Rept No. 87-444

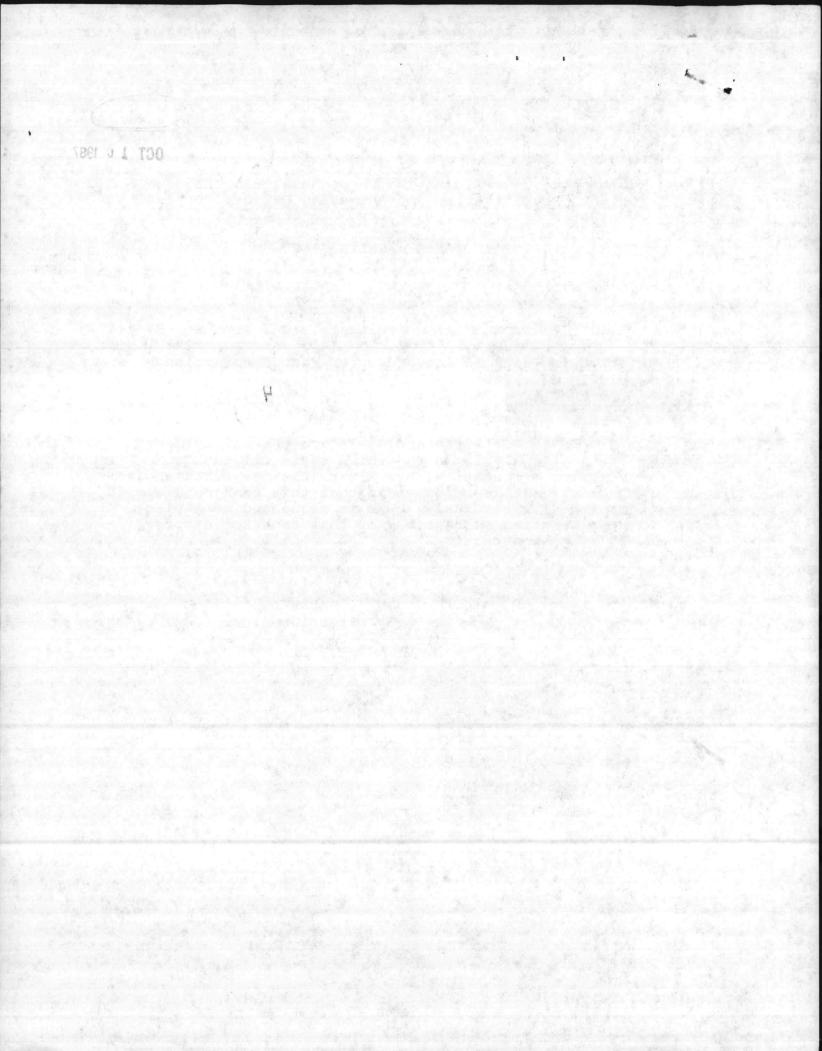
1. The following data is forwarded for your information. Navy Sample ID No. 87-31 through 87-34 are additional data provided on the large waste oil tank at Bldg \$5. The other parameters were provided in reference (b).

2. Navy Sample ID No. 87-89 and 87-80 are the volatile organic chemical analysis on the third waste oil tank at the Marine Corps Air Station, New River (the one furthest from the crash crew). It is recommended that this tank be disposed of as a hazardous waste fuel. DRMO is requested to advise if additional testing is required of this tank for disposal per the existing contract.

> T. J. DALZELL By direction

Copy to: BMO CO MCAS NR

BCC: Lab



Partial Results JTC DATA REPORT # 87-444 LABORATORY ANALYSIS ON NAVAL SAMPLES CONTRACT #N62470-86-C-8754

CASE # 138

PREPARED FOR:

DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511-6287

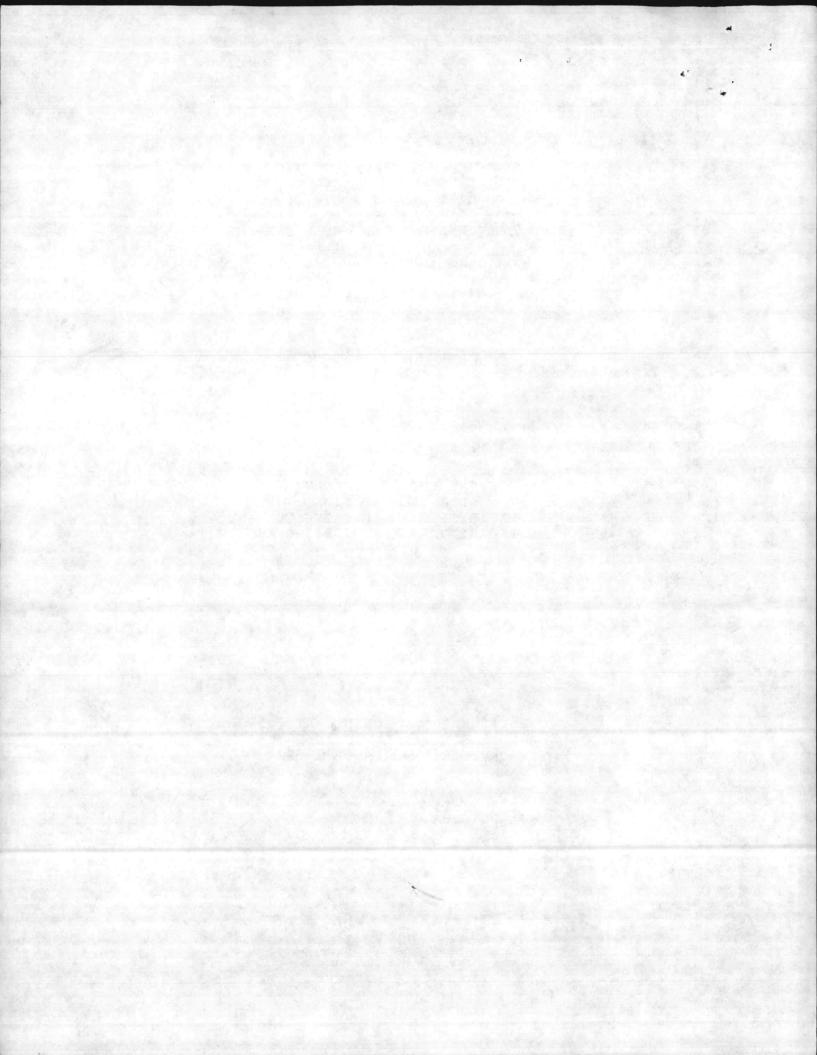
PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC. 4 RESEARCH PLACE, SUITE L-10 ROCKVILLE, MARYLAND 20850

OCTOBER 7, 1987

ann

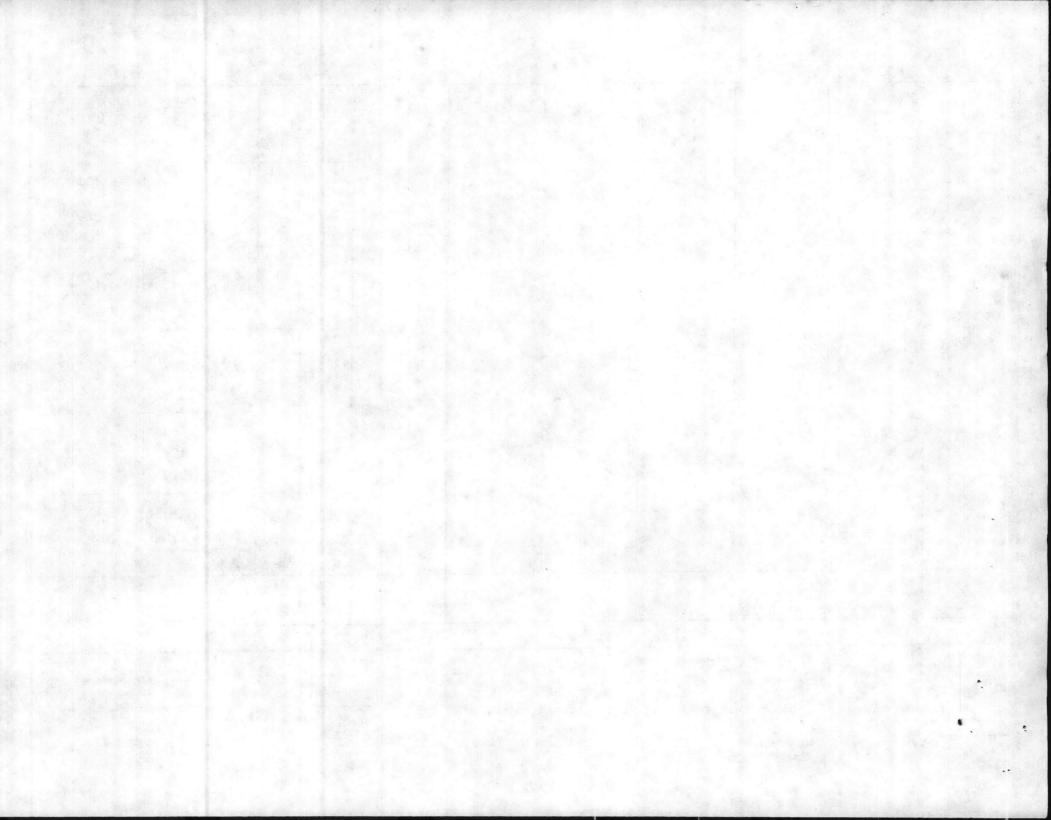
Ann E. Rosecrance Laboratory Director



JTC Environmental Consultants, Inc.

Location: Camp Le	jeune.	Date of R	eceipt: <u>9</u> -	23-87 Tu	naround:	10 day	5
Date: 10-7-87	Case No. 138	to Naval	Facilities	Engineering	Command,	/ Norfolk,	Virginia
JTC Data Report No	87-444	Table 10/1					÷

NAVY	JTC		S. S. S. S. S. S.	a first the	ANALYSIS	PARAMETER	n an	
SAMPLE SAMPLE ID ID	VOA + Freon							
87-31	61-0986	see attached Sheet						
87-32	61-0987	н.						
87-33	61-0988	n						
87-34	61-0989	11						
87-79 oil layer composite	61-0990	II						
87-80	61-0991	h				an a		





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C Environmental Consultants. Inc.

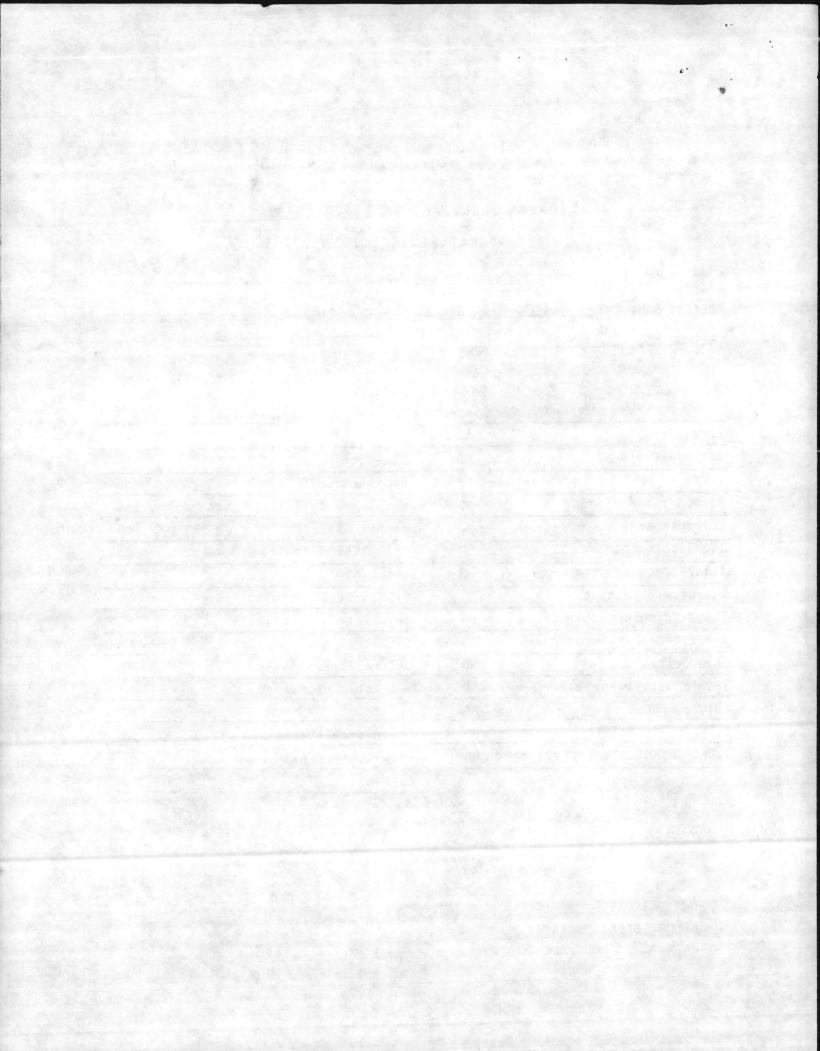
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE 1 61-0986	PROJECT NONF-61 #138
CLIENT SAMPLE 1 87-31	DATE RECEIVED 9-23-87
METHOD NO624	DETECTION LIMIT 250 mg/L

PARAMETER	RESULT mg/L	PARAMETER		RESULT mg/L
acrolein	ND	1,2-dichloropropane		ND
acrylonitrile	ND	1,3-dichloropropylene		ND
benzene 50	of NO	ethylbenzene	100	X-NO
carbon tetrachloride	ND	methylene chloride	al day bar	ND
chlorobenzene	ND	methyl chloride		ND
1,2-dichloroethane	ND	methyl bromide	and the second	ND
1,1,1-trichloroethane 10	O Xano	bromoform		ND
1,1-dichloroethane	ND	dichlorobromomethane		ND
1,1,2-trichloroethane	ND	trichlorofluoromethane	200-	- NO
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	The Second	ND
chloroethane	ND	chlorodibromomethane	Mary Silley	ND
2-chloroethylvinylether	ND	tetrachloroethylene	and affine	ND
chloroform	ND	toluene	3.90	NO
1,1-dichloroethylene	ND	trichloroethylene	70×	- NB
1,2-trans-dichloroethylene	ND	vinyl chloride	and the second	ND
2-HEXANONE	430	xylenes	580	NO
		FREON	2900	

ND = NOT DETECTED





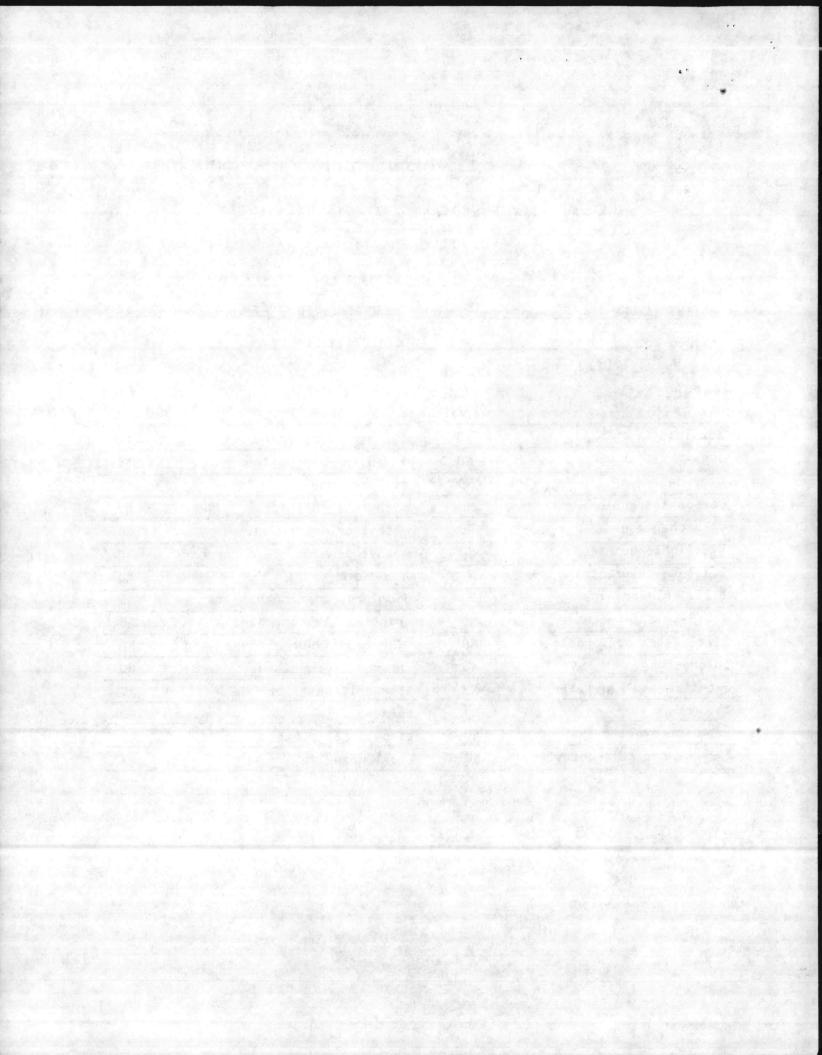
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE 1 61-0987	PROJECT NO. NF-61 #138
CLIENT SAMPLE 1 87-32	DATE RECEIVED 7-23-87
METHOD NO. 624	DETECTION LIMIT 250 mg/L

PARAMETER	RESULT mg/L	PARAMETER	RESULT mg/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene 200	X NO	ethylbenzene 41	0 -NO
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane 4/	O AD	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane 64	-O -ND-
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene 1300) -ND-
1,1-dichloroethylene	ND	trichloroethylene 100-	X-NO-
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	1900	xylenes 190	O AND
2- HEXANONE	1700	FREON 93	300
4-METHYL-2-PENTANONE (MIBK)	380	10	,

ND = NOT DETECTED



PRIORITY POLLUTANT ANALYSIS DATA SHEET

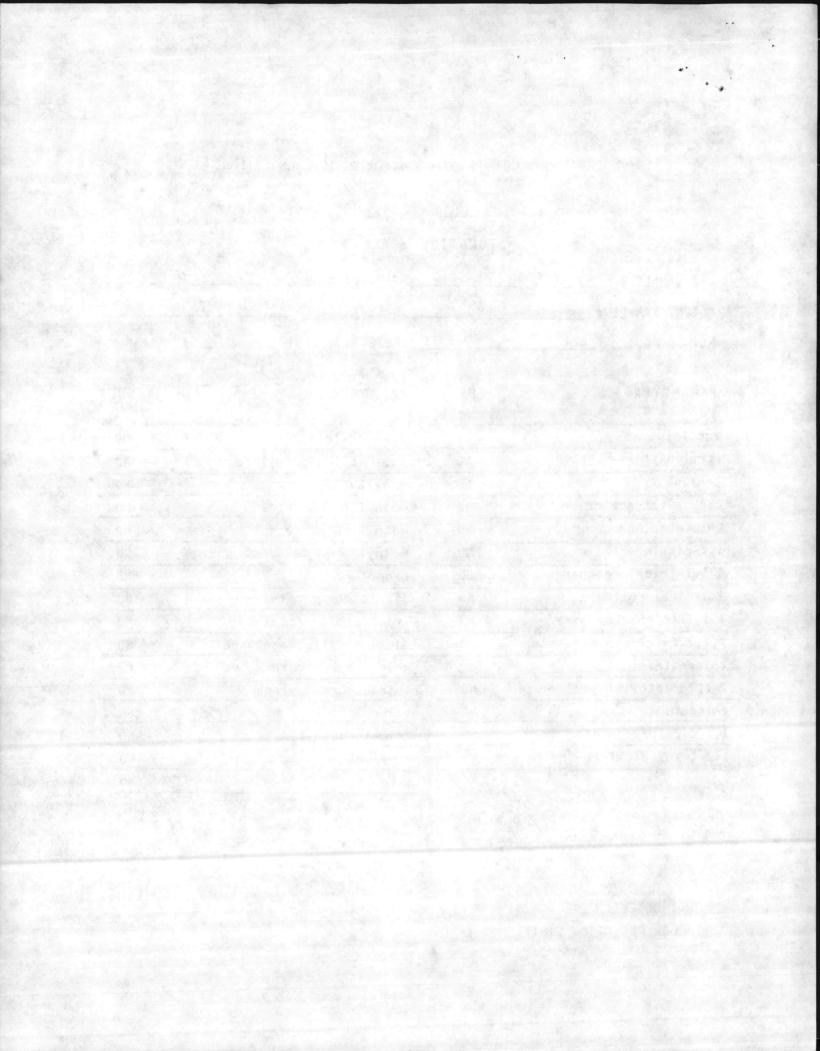
VOLATILE FRACTION

T

JTC SAMPLE 1 61-0988	PROJECT NO # 138
CLIENT SAMPLE 1 87-33	DATE RECEIVED 9-23-87
METHOD NO624	DETECTION LIMIT 250 mg/L

PARAMETER	RESULT mg/L	PARAMETER	RESULT mg/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene 200 *	F NO	ethylbenzene 390) -HO
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane 380	AHD	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane 560) ND
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane .	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene 1300	NO
1,1-dichloroethylene	ND	trichloroethylene 100 X	- HO-
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	1800	xylenes 2000	AND
4 - METHYL -2 -PENTANONE 2- HEXANONE (MIBK)	380 1600	FREON	8200

ND = NOT DETECTED



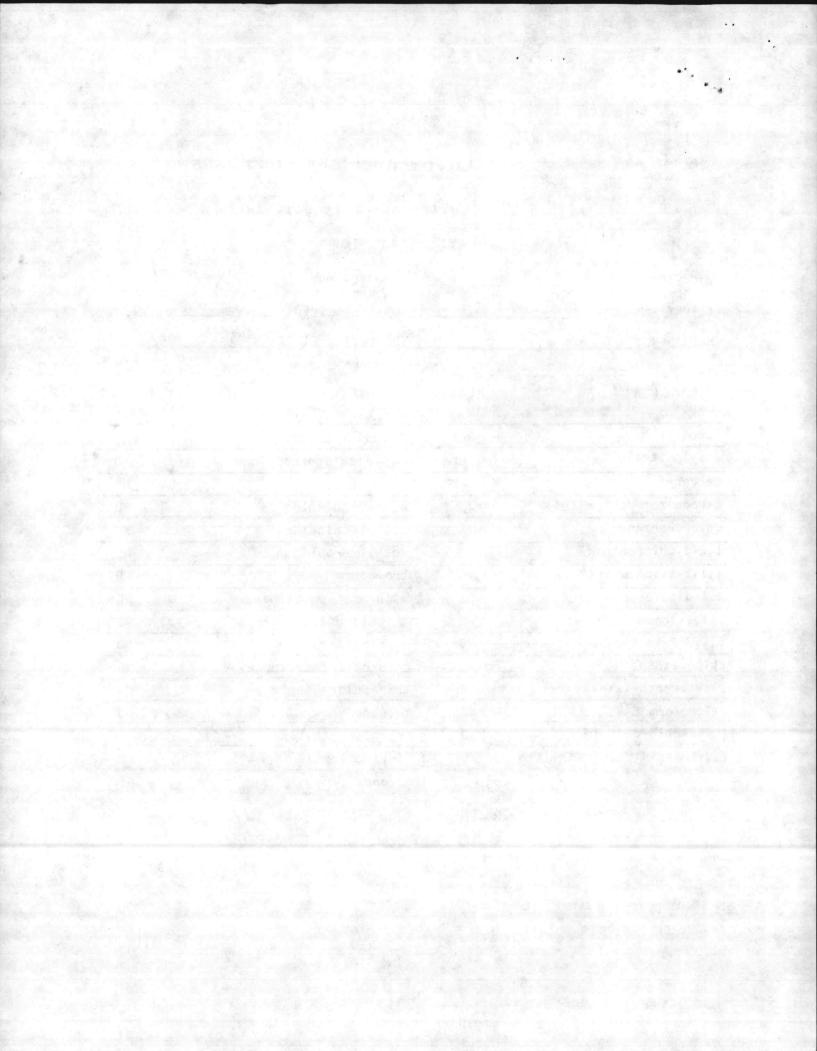
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE 1 6/-0989	PROJECT NO. NF-61 # 138
CLIENT SAMPLE 1 87-34	DATE RECEIVED 7 -23 -87
METHOD NO. 624	DETECTION LIMIT 250 mg/L

PARAMETER	RESULT mg/L	PARAMETER	RESULT mq/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene 100 X	- NO	ethylbenzene 620	HU
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane 310	NO	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane 310) _ND-
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane .	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene 12.00	NO
1,1-dichloroethylene	ND	trichloroethylene 100 -X	- NO
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	1400	xylenes 2000	NO
A-METHYL-2-PENJANONE (MIB		FREON	5200

ND = NOT DETECTED





T

C Environmental Consultants. Inc.

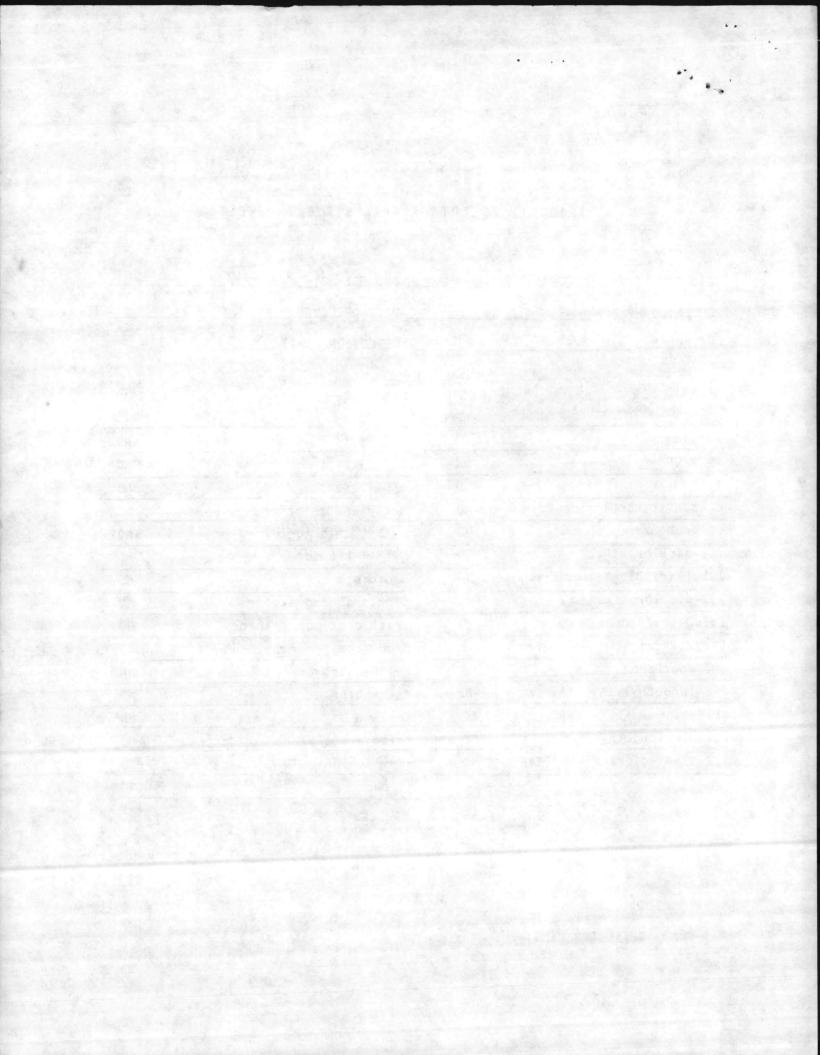
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE 1 61-0990 COMPOSITE	PROJECT NO. NF-61 #138
CLIENT SAMPLE 1 87-79	DATE RECEIVED 9-23-87
METHOD NO. 624	DETECTION LIMIT 250 mg/L

PARAMETER	RESULT mg/L	PARAMETER	RESULT mg/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene 2007	¥ .NO	ethylbenzene 720) AB
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane /00	* MO	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane	ND
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene 970	NO
1,1-dichloroethylene	ND	trichloroethylene 50 X	NO
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	1400	xylenes 1500	AHD
4-METHYL-2-PENTANONE 2-HEXANONE	K) 330 1100	FREON	1600

ND = NOT DETECTED





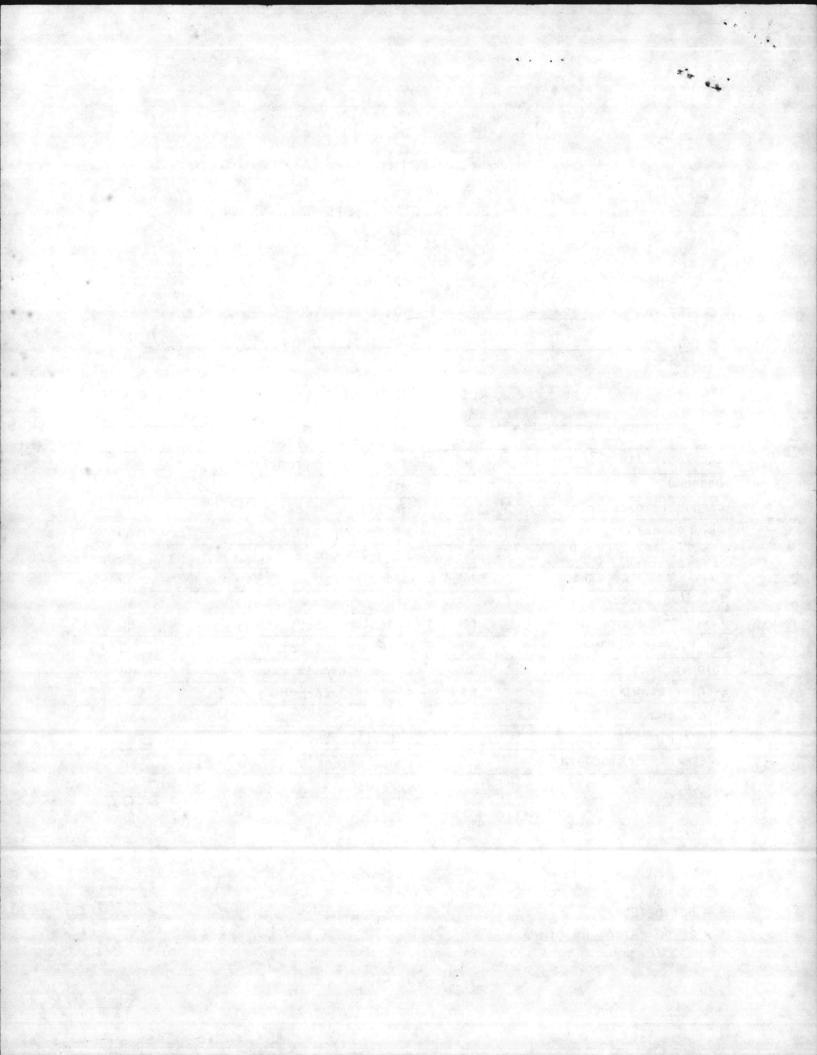
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-0991	PROJECT NO. NF-61 #138
CLIENT SAMPLE 1 87-80	DATE RECEIVED 9-23-87
METHOD NO. 624	DETECTION LIMIT 250 mg/L

PARAMETER	RESULT mg/L	PARAMETER	RESULT mg/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene 200 *	NO	ethylbenzene 460	O -HO-
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	ND	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane	ND
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene 1300	NO
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	2300	xylenes 2100	.HD-
4-METHYL-2-PENTANONE 2-HEXANONE) 500 1500	FREON	600

ND = NOT DETECTED





UNITED STATES MARINE CORPS NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542-5001

NREAD 14 Jul 87

- From: Director, Natural Resources and Environmental Affairs
 Division, Marine Corps Base, Camp Lejeune
 To: Base Maintenance Officer: Marine Corps Base, Camp Lejeune
- To: Base Maintenance Officer, Marine Corps Base, Camp Lejeune

Subj: WASTE OIL STORAGE TANKS; ANALYSIS OF

- Ref: (a) BO 6240.5
- Encl: (1) JTC Environmental Consultants, Inc., Report #87-247
 (2) JTC Environmental Consultants, Inc., Report #87-247
 Addendum

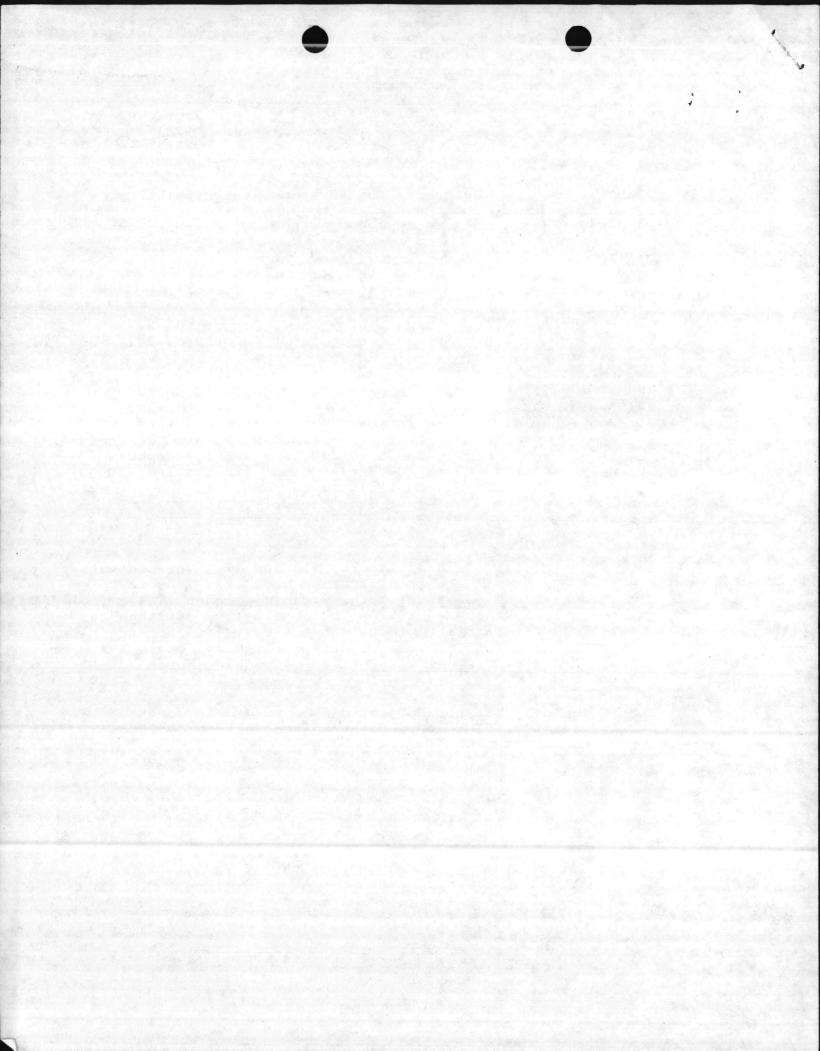
1. On 28 May 1987, the four waste oil storage tanks at Holcomb Boulevard, two of the three tanks at Marine Corps Air Station, New River, and three of the six tanks at Tarawa Terrace, were sampled by NREAD. Sample numbers 87-49 through 87-52 are the Holcomb Boulevard tanks S-888, S-889, S-890, and S-891, respectively. Sample number 87-53 is the Marine Corps Air Station, New River tank in the middle and sample number 87-54 is the Marine Corps Air Station, New River tank closest to the crash crew. Sample numbers 87-55 through 87-57 are the tanks at Tarawa Terrace, STT-61, STT-62, and STT-63 respectively.

2. Based on data contained in enclosures (1) and (2), the contents of S-888, S-890 and STT-63 are specification used oil. The rest of the tanks, due to the levels of Total Organic Halogen (TOX), are regulated as a hazardous waste fuel by regulations outlined in the reference. The majority of the subject waste oil appears to be suitable for burning for recovery of energy based on information provided by Oldover Corporation, Aquadale, North Carolina.

3. It is recommended that the subject oil be turned in to DRMO for disposal. Point of contact is Danny Sharpe, extension 2083.

J. I. WOOTEN

Copy to: DRMO AC/S, FAC EC&MS (2)



Partial Results JTC DATA REPORT # 87-247 LABORATORY ANALYSIS ON NAVAL SAMPLES CONTRACT #N62470-86-C-8754

CASE # 42

PREPARED FOR:

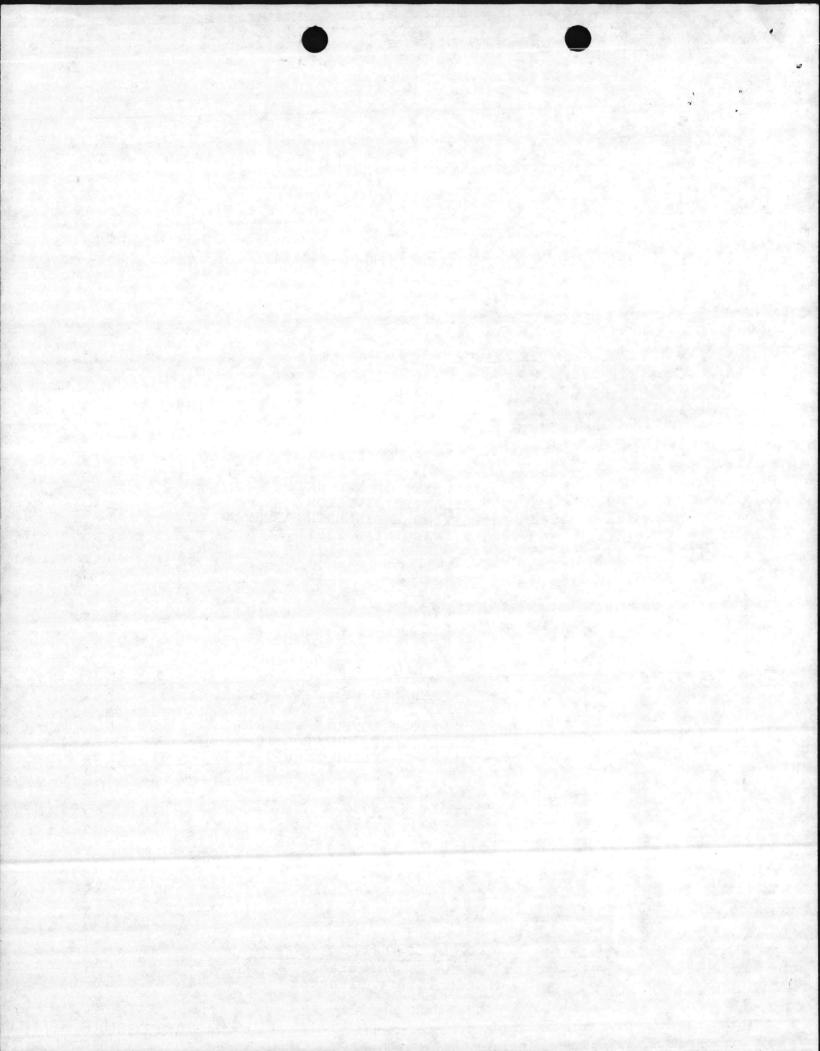
DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511-6287

PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC. 4 RESEARCH PLACE, SUITE L-10 ROCKVILLE, MARYLAND 20850

JULY 6, 1987

Ann E. Rosecrance Laboratory Director



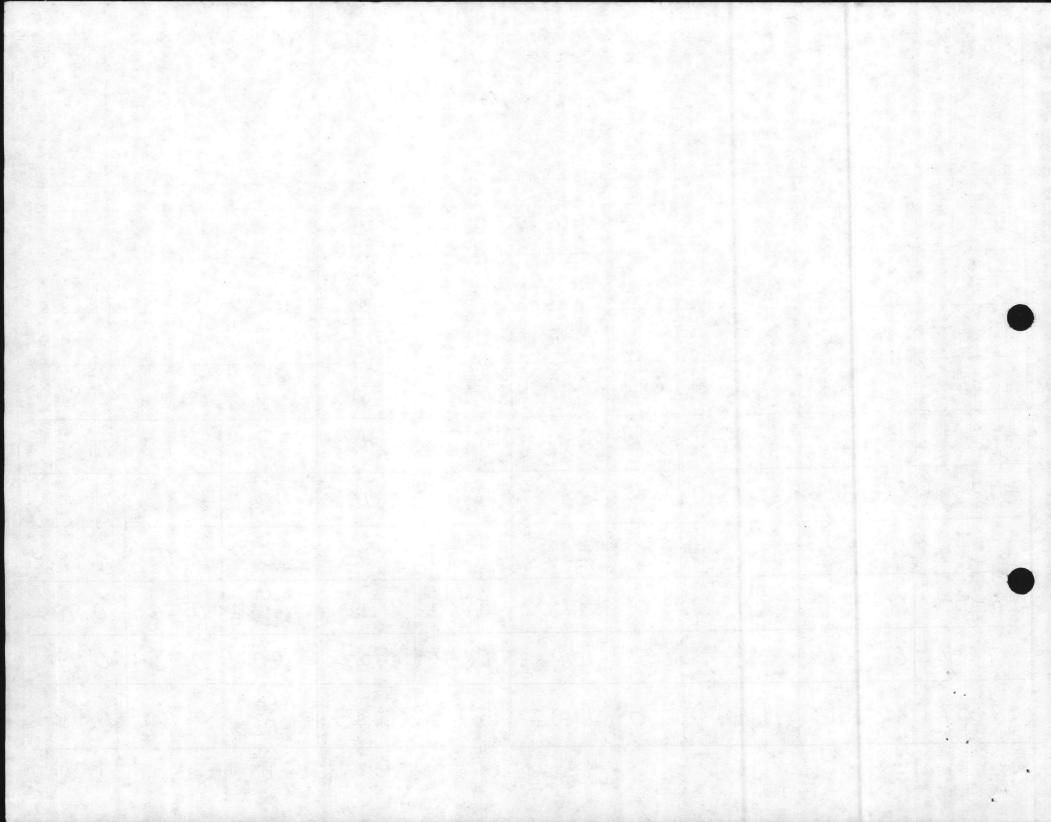
Luxaronnegeur consurcatios, inc.

Location: Camp L.	ejeune		Date of Re	eceipt: 6-	5-87 Tur	naround:	routine	<u>`</u>
Date: 7-6-87	Case No. 42		_ to Naval	Facilities	Engineering	Command,	Norfolk,	Virginia
JTC Data Report No	87-247	Table	<u> </u>		Oil Phase	2		

NAVY	JTC	ANALYSIS PARAMETER									
SAMPLE ID	SAMPLE ID	Water 70	85+W 70	Viscosity e100°F, 505	BTU per 1b.	TOX 70	Flashpoint	Sp:Gravity g/m1	Sp. Gravity g/m P		
87 - 49	61-0305	19,5	19.5	93,6	15,550	< 0.05	N.O. boiled at 70°	0,73	0.92		
87-50	61-0306	13.5	20.0	100,8	16,500	0.20	N.O. boiled at 50	0,77*			
87-51	61-0307	17,6	24.0	103.8	15,500	<0.05	N.O. boiled at 45°	0.72	0.96		
87-52	61-0308	0.76	0,80	53.0	19,300	0.12	35	0.73	0.88		
87-53	61-0309	8.4	13.5	100,8	17,500	0.16	40	0.73	0.93		
87-54	61-0310	8.1	13.0	56.1	17,500	0,25	35	0.75	0.88		
87-55	61-0311	18.4	23.0	97.0	15,000	0.13	N=0. boiled at 45	0,76	0.98		
87-56	61-0312	12.0	17,5	104.6	16,650	0.22	40	0.73	0.89		
87-57	61-0313	19.6	22.0	120.2	15,100	<0.05	N.O. boiled at 45°	0,76	0,98		

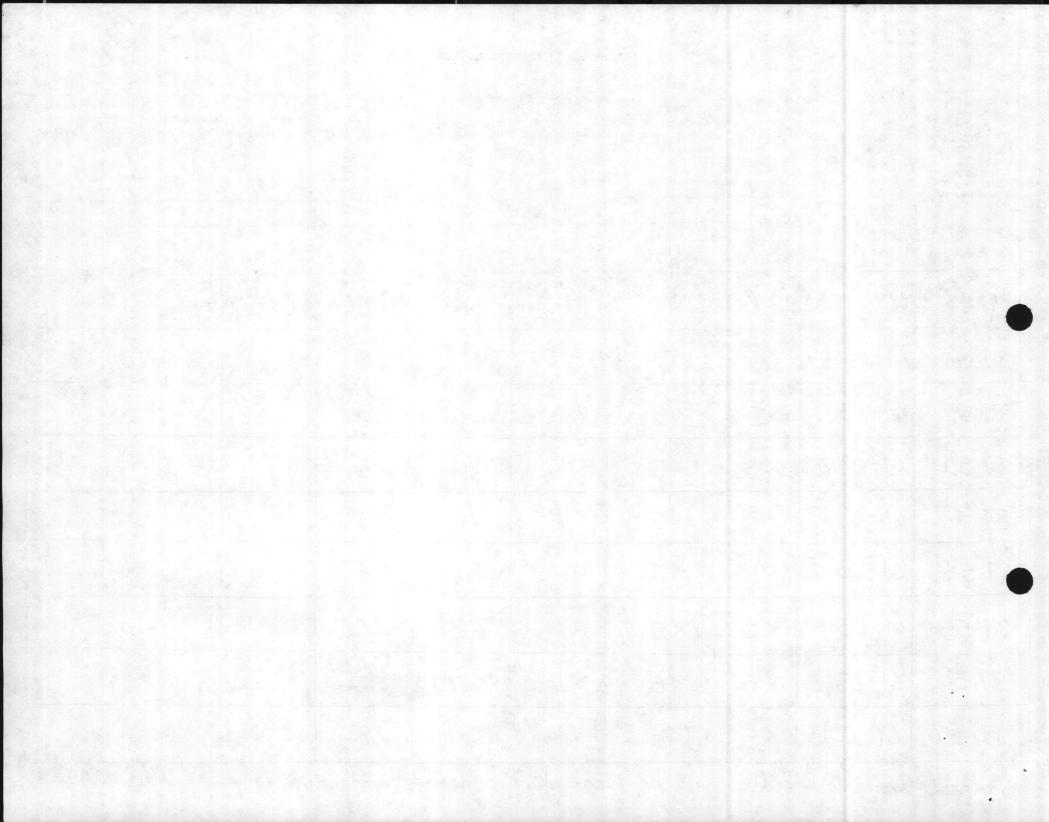
a = top layer b = bottom layer

* sample consisted of only one oil layer

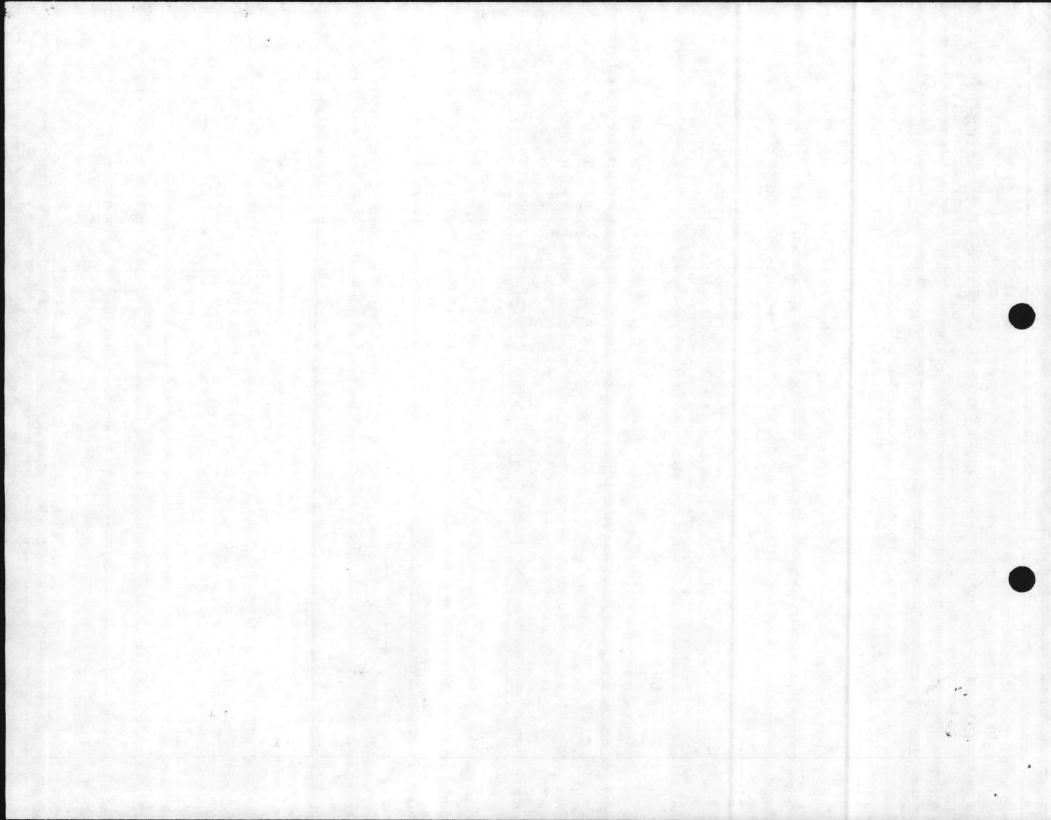


	Camp Lejeu -87 ca				eceipt: <u>6-</u>							
JTC Data Re	eport No. 8				Oil	Phase		,,	, indiana			
NAVY	JTC		ANALYSIS PARAMÈTER									
SAMPLE ID	SAMPLE ID	PCB Juglg	As mglkg	Cd mg1kg	Cr mg 1 kg	Pb mg/kg						
87-49	61-0305	<5	NA	NA	NA	NA						
87-50	61-0306	<5	<5	<	<0.75	30						
87-51	61-0307	<5	<5	1.1	2.2	59						
87-52	61-0308	<5	<5	<1	1.4	23						
87-53	61-0309	<5	<5	<	1.6	35						
87-54	61-0310	< 10	<5	<1	2.6	26						
87-55	61-0311	<5	<5	< 1	1.3	26	:					
87-56	61-0312	<5	<5	<1	<0,75	8.2						
87-57	61-0313	<5	<5	<1	<0.75	28						

NA- not available, results will be reported in a report addendum



	Camp Lej -87 ca								
JTC Data Re	port No. 8					Phase Co			
SAMPLE I D	SAMPLE ID	TOX ug/L	Phenols mg1L	VOA -	As ug 12	Cd -ug/L	Cr Jug 12	Pb ug/L	
87-49/ 87-57 composite	61-0305/ 61-0313	814	6.8	see attached sheet	498	<20	72	155	
							:**		



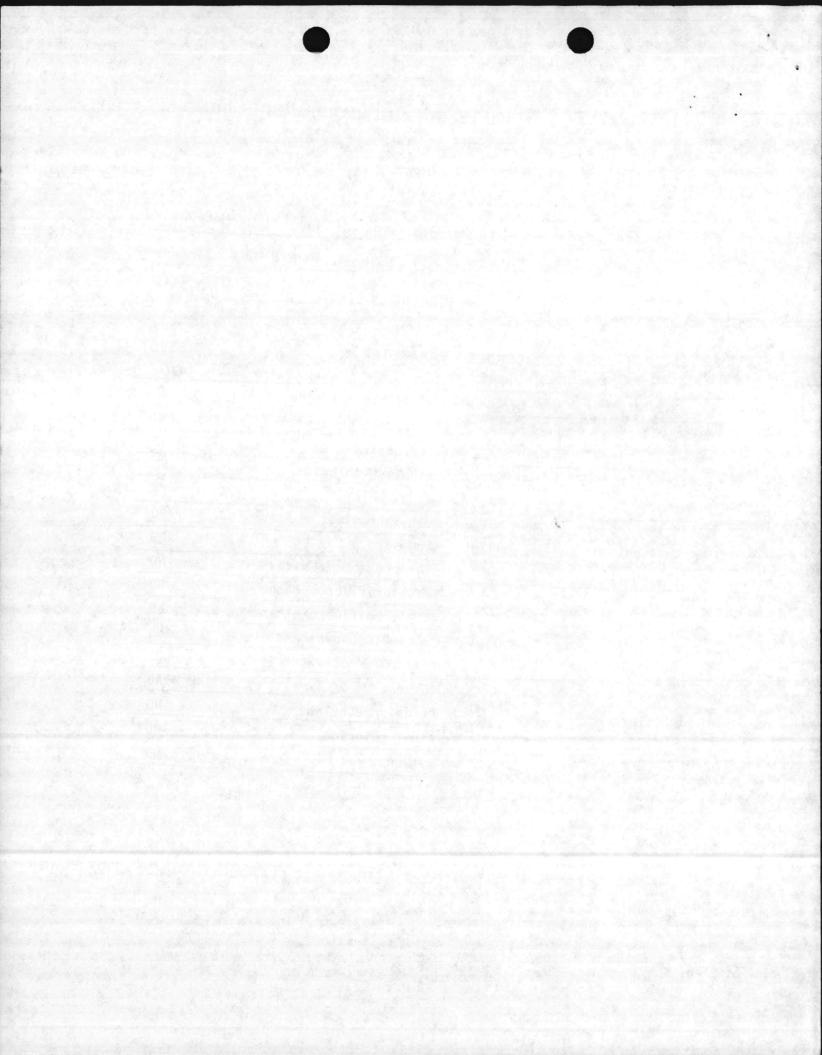
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE	FRACTION
(, 6705/07)7 (oml	OSIK NO. NF-61#42
JTC SAMPLE # 61-0305/0515 CONT CLIENT SAMPLE # 87-49787-57 Composition METHOD NO. 624	DATE RECEIVED 6587
CLIENT SAMPLE # Compasi	TE SOO Ug/L
METHOD NO624	

PARAMETER	RESULT ug/L	PARAMETER	RESULT ug/L
	ND	1,2-dichloropropane	ND
acrolein	ND	1,3-dichloropropylene	ND
acrylonitrile		ethylbenzene	110*+10-
benzene 54	ND	methylene chloride	ND
carbon tetrachloride	ND	methyl chloride	ND
chlorobenzene	ND	methyl bromide	ND
1,2-dichloroethane		bromoform	. ND
	30*NB	dichlorobromomethane	ND
1,1-dichloroethane	ND	trichlorofluoromethane	ND
1,1,2-trichloroethane	ND		ND
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	ND
chloroethane	ND	<i>chlorodibromomethane</i>	
2-chloroethylvinylether	ND	tetrachloroethylene	ND
	ND	toluene	990 -ND
chloroform	ND	trichloroethylene	ND
1,1-dichloroethylene		vinyl chloride	ND
1,2-trans-dichloroethylene	ND		620 HD
		xylenes	Leav no

Acetone 70,000 <u>*1</u> MEK(2-Butanone) 13,000 MIBK(4-methyl-2-pentanone) 1200 Acetone 1,1,2 - Trichlorotrifluoroethane ND = NOT DETECTED = BELOW DETECTION LIMIT

present, concentration not availab



Addendum

JTC DATA REPORT # 87-247 LABORATORY ANALYSIS ON NAVAL SAMPLES CONTRACT #N62470-86-C-8754 CASE # 42

PREPARED FOR:

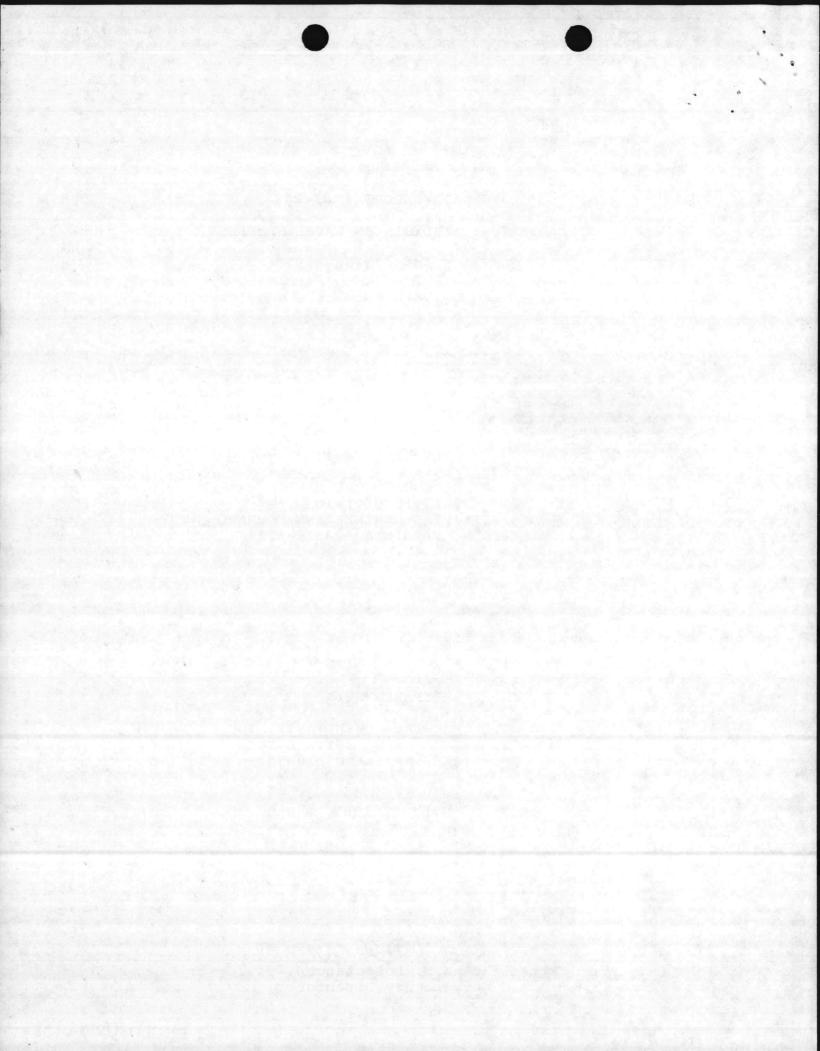
DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511-6287

PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC. 4 RESEARCH PLACE, SUITE L-10 ROCKVILLE, MARYLAND 20850

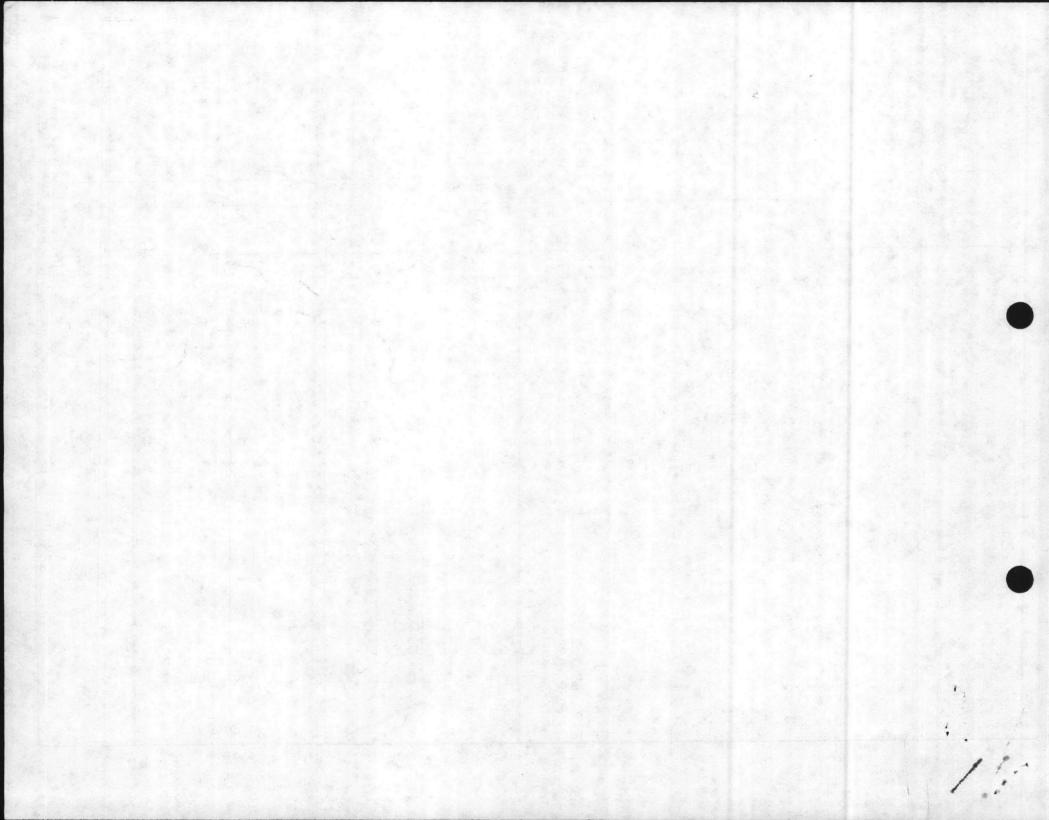
JULY 8, 1987

Ann E. Rosecrance Laboratory Director



Location: Camp Le			Date of Re	ceipt: <u>6-</u>	5-87 Tu	naround:	routi	ne
Date: 7-8-87	Case No. 42	Add	_ to Naval :	Facilities	Engineering	Command,	Norfolk,	Virginia
JTC Data Report No								

SAMPLE ID	As	CI				
	As mg/kg	Cd_ mg/kg	Cr mg/kg	Pb mg/kg		
61-0305	<5	2,0	1.7	75		
			,			
NT						
				~	:	
-						
	-					



Partial Results JTC DATA REPORT # 87-247 LABORATORY ANALYSIS ON NAVAL SAMPLES CONTRACT #N62470-86-C-8754

CASE # 42

F .

PREPARED FOR:

DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511-6287

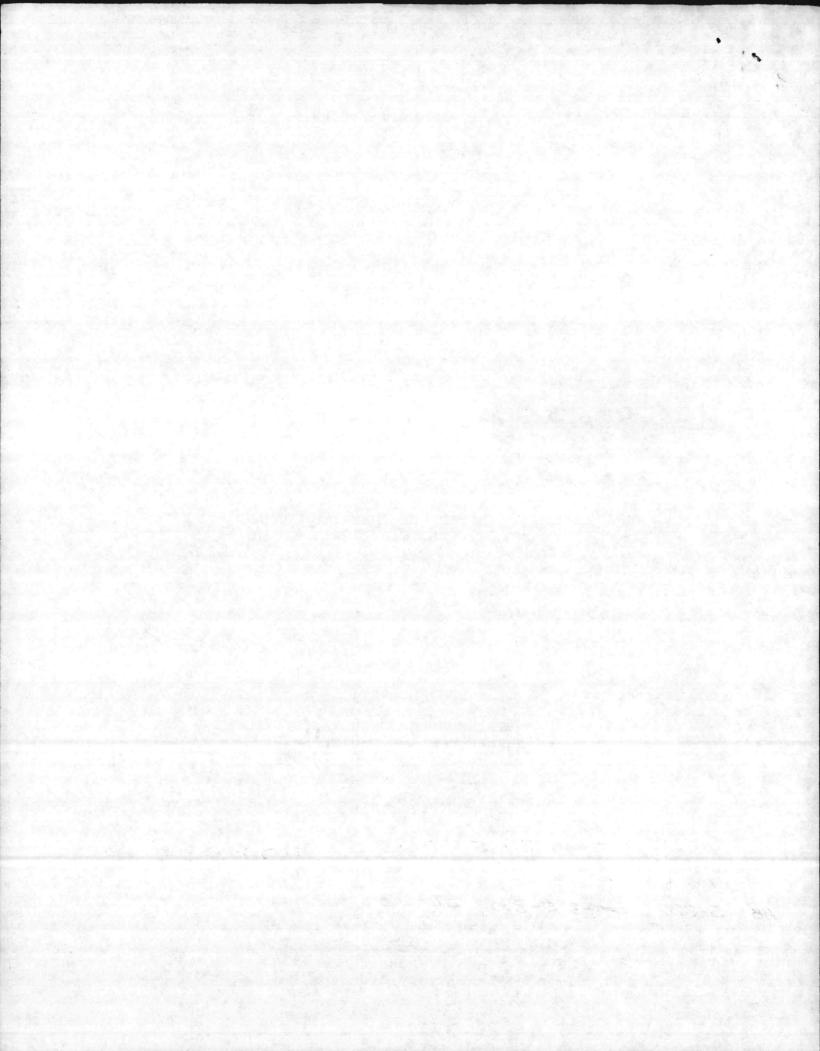
PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC. 4 RESEARCH PLACE, SUITE L-10 ROCKVILLE, MARYLAND 20850

JULY 6, 1987

SAMPLES 87-49, 87-51 + 87-57 REFLECT SPECIFICATION FUEL OIL HB: 5-888, 5-88, 5-88, 517-63 ann E Roseciance) E. Rosecrance

Ann E. Rosecrance Laboratory Director

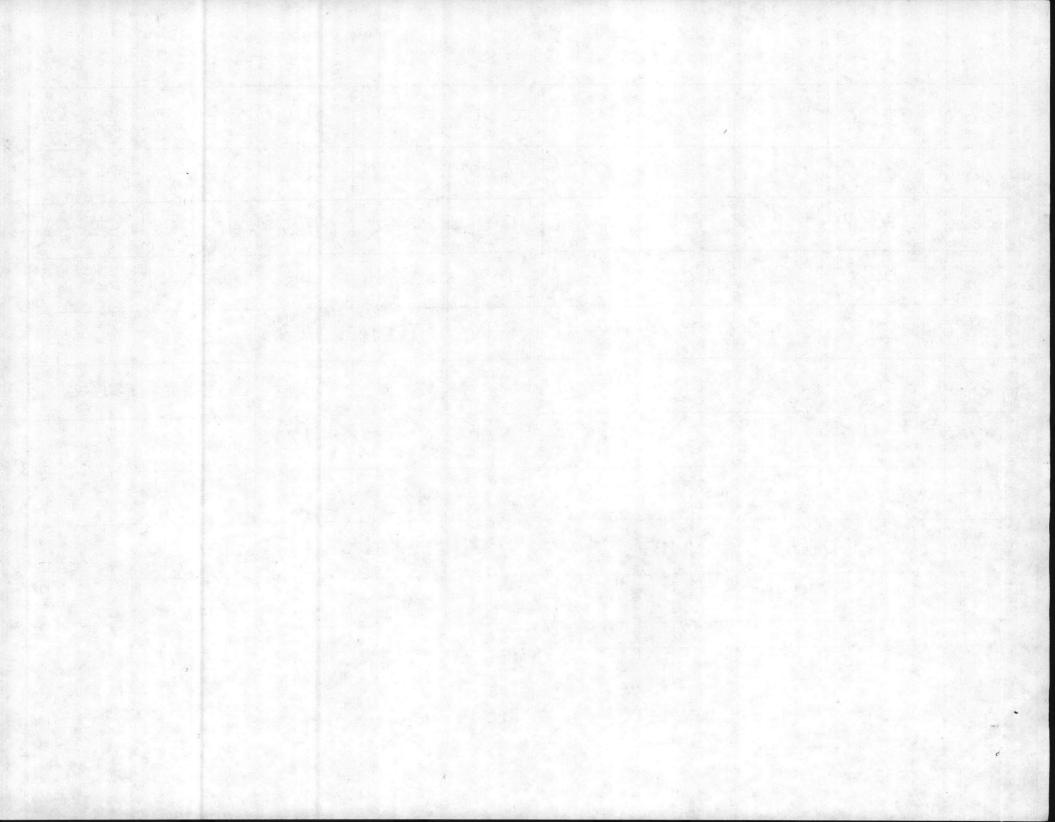


ore Environmetical consultants, inc;

1. K. Maria	eport No. 8	7-247	_ Table_			Oil Ph	ase				
NAVY	JTC	ANALYSIS PARAMETER									
SAMPLE ID 5-888	SAMPLE ID	Water 70	85+₩ 70	Viscosity e100°F, sus	BTU per 1b.	TOX 70	Flashpoint	Sp. Gravity	Sp. Gravit		
5-888 87-49	61-0305	19,5	19.5	93,6	15,550	< 0.05	N.O. boiled at 70°	0,73	0,92		
87-50	61-0306	13.5	20.0	100.8	16,500	0.20	N.O. boiled at 50	0,77*			
5-890 187-51	61-0307	17.6	24.0	103.8	15,500	<0.05	N.O. boiled at 45°	0.72	0,96		
87-52	61-0308	0.76	0,80	53.0	19,300	0.12	35	0.73	0,88		
87-53	61-0309	8.4	13.5	100,8	17,500	0.16	40	0,73	0.93		
87-54	61-0310	8.1	13.0	56.1	17,500	0,25	35	0.75	0.88		
87-55	61-0311	18.4	23.0	97.0	15,000	0.13	N.O. Doiled at 45°	0,76	0.98		
87-56	61-0312	12.0	17,5	104.6	16,650	0.22	40	0,73	0.89		
STT-63 87-57	61-0313	19.6	22.0	120.2	15,100	<0.05	N.O. boiled at 45°	0,76	0,98		

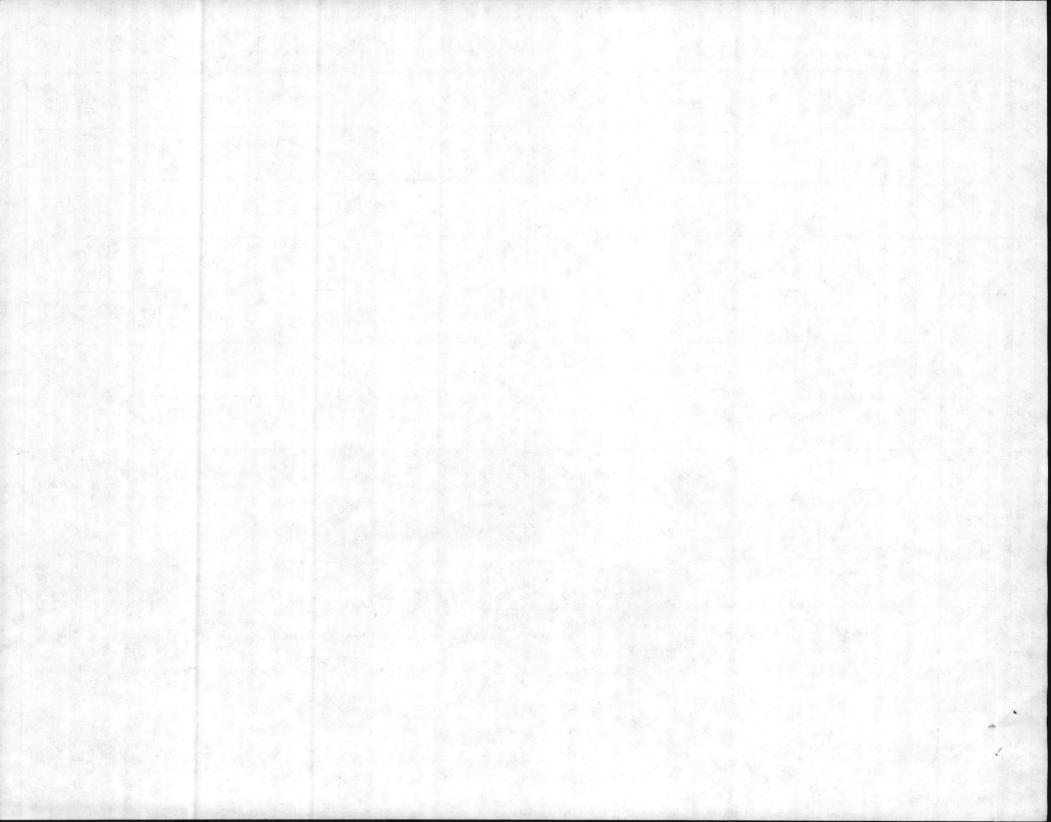
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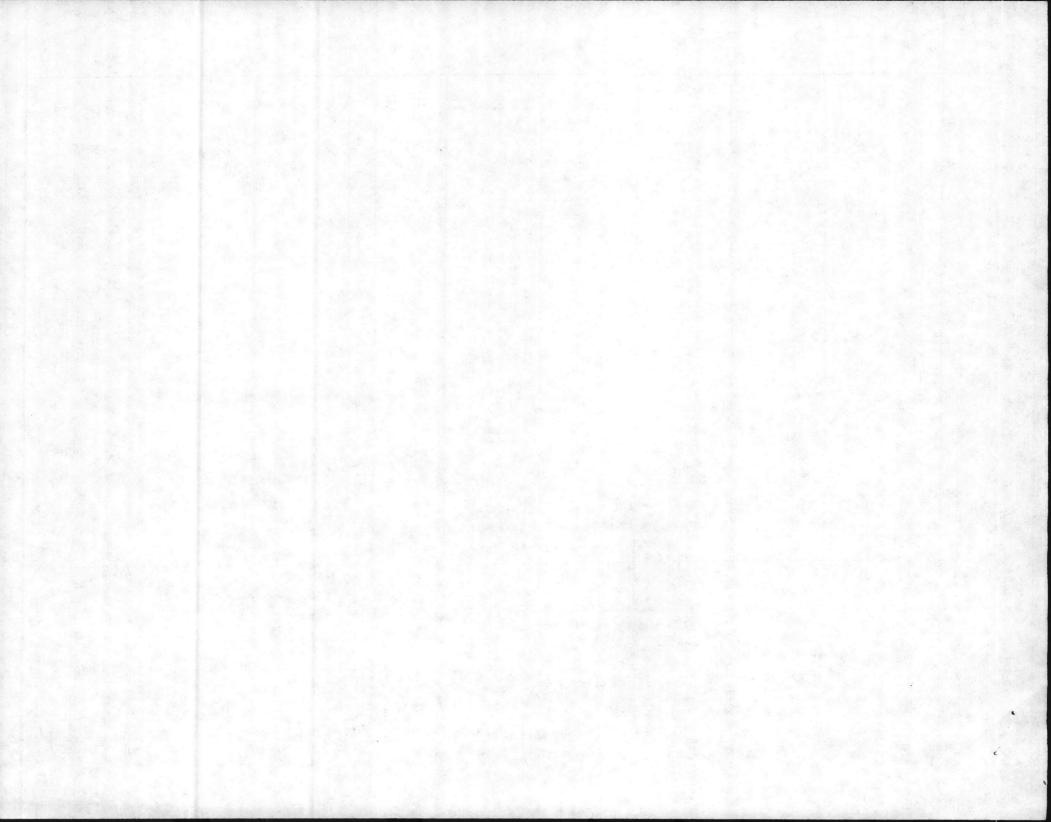


Location:	Camp Lejeu	ine	I	Date of Re	ceipt: 6-5	5-87 -	furnaround	: routin.	e		
Date: 7-6-	-87 Ca	se No. 4-	2	to Naval	Facilities	Engineerin	ng Command	, Norfolk,	Virginia		
JTC Data Re	port No. 8	7-247	_ Table	2	A 1	~					
NAWA	170				and the second	Phase		landese to the			
NAVY Sample	JTC	ANALYSIS PARAMETER									
ID	SAMPLE	PCB	As	Cd	Cr	Pb					
10	ID	uglg	mglkg	mglkg	malka	malka		Sealer 1994			
87-49	61-0305	<5	٨/٨	N/A				AND PARTY			
01-11	er 0.505	10	NA	NA	NA	NA					
07 50	11 0201	1-	1-	11	1075	-					
87-50	61-0306	<5	<5	<	<0.75	30					
	11 12.7										
87-51	61-0307	<5	<5	1.1	2.2	59	ter and the	a second	h get a land		
	11 10 1		A. A. C.		- 6	"你们的"		10-10 20-10	9		
87-52	61-0308	<5	<5	<1	1.4	23		The server			
							and the set of		i di		
87-53	61-0309	<5	<5	<	1.6	35					
			and the second					P. W. B. S. S.			
87-54	61-0310	< 10	<5	<1	2.6	26			친 먹이 없		
							1950 - 1970 - 1970 1950 - 1970 - 1970				
87-55	61-0311	<5	<5	<1	1.3	26					
87-56	61-0312	<5	<5	<1	<0.75	8.2					
·····						010-					
87-57	61-0313	<5	<5	<1	<0.75	28					
0,07					0.15	-0					

NA- not available, results will be reported in a report addendum



Location:	Camp Lej	eune		Date of Red	ceipt: <u>6</u> -	5-87	Turnaround	: routir	ie i
Date: 7-6	-87 Cas	se No. 42		to Naval 1	Facilities	Engineeri	ng Command	, Norfolk,	Virginia
	port No. 8					Phase Co			
NAVY	JTC				ANALYSIS	PARAMETER	mposice		
SAMPLE I D	SAMPLE ID	TOX	Phenols mg/L	VOA -	As Jug 12	Cd -ug/L	CrugIL	Pb ug/L	
87-49/ 87-57 composite	61-0305/ 61-0313	814	6.8	See attached sheet	498	<20	72	155	





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Environmental Consultants, Inc. C

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE	
JTC SAMPLE # 61-0305/0313 Com	PROJECT NO. NF-61#42
CLIENT SAMPLE # 87-49787-57	DATE RECEIVED 615187
METHOD NO624	DETECTION LIMIT 500 ug/L

PARAMETER	RESULT ug/L	PARAMETER	RESULT ug/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene 54	O ND	ethylbenzene	110* ND-
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane 2	30*NB	bromoform	. ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane	ND
1,1,2,2-tetrachloroethane	ND -	dichlorodifluoromethane	ND
chloroethane	ND	<i>chlorodibromomethane</i>	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene	990 -NB
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
Acetone 70,	000	xylenes	(e20 HD
MEK (2-Butanone) 13.	000		
MEK (2-Butanone) 13, MIBK (4-methyl-2-pentan	one) 120	00	
1,1,2-Trichlorotrifluo ND = NOT DETECTED	roethar (freor	present, conc	entration

present, concentration not availab

